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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 inform himself or herself of these requirements. A student's adviser may not assume these responsibilities. Any substitution, waiver, or exemption from any established requirement or academic standard may be accomplished only with the approval of the student’s dean.

This General Catalog represents a flexible program of the current curricula, 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 catalog 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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LSU General Catalog

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**November**

3–7 Spring advanced registration for continuing students
13 Final date for resigning from the University and/or dropping courses
26 Thanksgiving holidays begin at 10:00 p.m.

**December**

1 Classes resume at 7:30 a.m.
1 Dead week begins—no meetings, social activities, athletic events, or other extracurricular activities which require student participation will be scheduled
5 Classes end
7 Dead week ends
8–9 Final examinations begin
10 Concentrated study day
11–16 Final examinations continue
19 Fall semester commencement, 9:30 a.m.

**SPRING SEMESTER***

**January**

12 Dormitories open for students participating in freshman orientation
13 Dormitories open for all other students
13 Orientation for beginning students
14–16 Registration; registration after January 16 only by special permission of student’s dean
19 Classes begin
27 Final date for adding courses for credit

**February**

9 Final date for dropping courses without receiving a grade of ‘‘W’’

**March**

2–3 Holiday (Mardi Gras)
4 Final date for dropping courses or resigning from the University without receiving a grade of ‘‘WA,’’ ‘‘WB,’’ ‘‘WC,’’ ‘‘WD,’’ or ‘‘WF’’
9–13 Midsemester examination period
18 Midsemester grades due in Office of Student Records and Registration
25 Final date for applying for undergraduate degrees to be awarded at spring semester commencement

**April**

6–10 Fall advanced registration for continuing students
10 Spring vacation begins at 10:00 p.m.
11 Dormitories close for spring vacation
20 Dormitories open after spring vacation
21 Classes resume at 7:30 a.m.
21 Final date for resigning from the University and/or dropping courses

* Dormitory closing dates at the end of the semester will be announced when the final examination schedule is issued.
### May
1. Dead week begins—no meetings, social activities, athletic events, or other extracurricular activities which require student participation will be scheduled.
2. Classes end
3. Dead week ends
4. Final examination period
5. Spring semester commencement, 9:30 a.m.

### SUMMER TERM*

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<td>Final date for applying for undergraduate degrees to be awarded at summer term commencement</td>
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### June

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<td>Registration: registration after June 10 only by special permission of student’s dean</td>
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<td>Final date for applying for undergraduate degrees to be awarded at summer term commencement</td>
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<td>Final date for dropping courses without receiving a grade of ‘‘W’’</td>
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### July

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<td>Fall advanced registration for continuing students ends</td>
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<tr>
<td>Final date for dropping courses or resigning from the University without receiving a grade of ‘‘WA,’’ ‘‘WB,’’ ‘‘WC,’’ ‘‘WD,’’ or ‘‘WF’’</td>
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<tr>
<td>3</td>
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<tr>
<td>Holiday (Independence Day)</td>
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<tr>
<td>6–8</td>
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<td>Midterm examination period</td>
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<td>Midterm grades due in Office of Student Records and Registration</td>
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<td>17</td>
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<tr>
<td>Final date for resigning from the University and/or dropping courses</td>
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<td>31</td>
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<td>Classes end</td>
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### August

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<td>3–6</td>
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<td>7</td>
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<tr>
<td>Summer term commencement, 9:30 a.m.</td>
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</tbody>
</table>

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Tentative Academic Calendar 1981–82

### FALL SEMESTER, 1981

- Orientation for beginning students ......................................................... August 19–21
- Registration ................................................................................................. August 24–26
- Classes begin ............................................................................................... August 27
- Holiday (Labor Day) .................................................................................. September 7
- Thanksgiving holidays begin at 10:00 p.m. ............................................. November 25
- Classes resume at 7:30 a.m. ................................................................. November 30

---

*Dormitory closing dates at the end of the summer term will be announced when the final examination schedule is issued.*
Tentative Academic Calendar, 1981-82

Classes end .............................................................................................................. December 9
Concentrated study day ......................................................................................... December 10
Final examination period ....................................................................................... December 11–17
Fall semester commencement ................................................................................ December 19

SPRING SEMESTER, 1982

Orientation for beginning students ........................................................................ January 5
Registration ............................................................................................................ January 6–8
Classes begin .......................................................................................................... January 11
Holiday (Mardi Gras) .............................................................................................. February 22–23
Classes resume at 7:30 a.m. .................................................................................. February 24
Spring vacation begins at 10:00 p.m. ..................................................................... April 2
Classes resume at 7:30 a.m. .................................................................................. April 13
Classes end ............................................................................................................. May 4
Concentrated study day .......................................................................................... May 5
Final examination period ......................................................................................... May 6–12
Spring semester commencement ........................................................................... May 15

SUMMER TERM, 1982

Orientation for beginning students ........................................................................ June 7
Registration ............................................................................................................. June 8–9
Classes begin .......................................................................................................... June 10
Holiday (Independence Day) .................................................................................. July 5
Classes end .............................................................................................................. July 30
Final examination period ....................................................................................... July 31–August 4
Summer term commencement ............................................................................... August 6
**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 provide 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 coursework—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 a 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 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.

"This is Junior Division": publication of Junior Division.

Major: The major field of study; the student will take the majority of the 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 Curriculum: 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.

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 coursework 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.
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.

Louisiana State University* has the mission of creating an environment of learning and exploration which will provide for the people of Louisiana the opportunity and benefits of a full-scale university. Law and tradition have defined the University’s three-fold purpose: to develop to the highest level the intellectual and professional capacities of Louisiana citizens through resident instruction; to enrich instruction and establish new frontiers of knowledge through research and scholarly activity; and to provide all citizens with information useful in advancing the state’s economy and culture through extension service. After more than a century of growth, the University has emerged as a broadly developed and self-contained institution of higher learning which provides a full range of programs to implement the three basic functions of instruction, research, and service.

From the beginning, the University has sought, in the words of its original charter, "to become an institution of learning in the broadest and highest sense, where literature, science, and all the arts may be taught; where the principles of truth and honor may be established, and a noble sense of personal and patriotic and religious duty inculcated; in fine, to fit the Citizen to perform justly, skillfully, and magnanimously all the offices both private and public of peace and war." **

LSU’s essential character obliges it to offer the most important educational service in Louisiana, but its responsibilities do not end in Louisiana. The University’s first allegiance is to the state, of course, but it also has obligations to the region, the nation, and the world. In fulfilling these obligations, the University not only enhances its stature as a comprehensive institution of higher learning, but also strengthens its value to the people of Louisiana.

*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, Baton Rouge). Any reference to the LSU System or to any other institution(s) within the System is clearly indicated.

**Taken from the Charter of the University, adopted June 1, 1877.
HISTORY

The 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 the use of 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, on account of the Civil War. It was reopened 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, and it began again with bare walls.

The Seminary reopened October 2, 1865, under 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. The 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 till its merger with the 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 the same temporarily at Baton Rouge, became a law; and 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.

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 from chaotic and humble beginnings 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, the College of Chemistry and Physics, and the School of Music, 1931; Junior Division, 1933; the School of Social Welfare, 1937; University College, 1951; the School of Veterinary Medicine, 1968; General College, 1974; and the College of Design, 1979 (originally founded in 1965 as the School of Environmental Design). In 1977, the 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.

THE LSU SYSTEM

By the 1960's LSU was no longer just a single university; it had expanded into a statewide "System" of higher education composed of seven institutions on ten campuses in five cities. Other components of the System are the Center for Agricultural Sciences and Rural Development (headquartered on the Baton Rouge campus and including the Agricultural Experiment Station and the Cooperative Extension Service); the 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 administration and facility planning; vice-president for business affairs; vice-president for employee relations; and vice-president for instruction and research.
ORGANIZATION

The chief administrative officer of LSU is the Chancellor; directly responsible to the Chancellor are the Vice-Chancellor for Academic Affairs, the Vice-Chancellor for Administration, the Vice-Chancellor for Advanced Studies and Research, the Vice-Chancellor for Business Affairs and Comptroller, the Vice-Chancellor for Student Affairs, the Director of Athletics, and the Director of Public Relations.

The academic organization consists of the following undergraduate divisions: General College, including University College and Junior Division; the College of Agriculture; the College of Arts and Sciences; the College of Business Administration; the College of Chemistry and Physics; the College of Design; the College of Education; the College of Engineering; 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, Graduate Division of Education, Graduate School of Library Science, School of Social Welfare, 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.

FACULTY

The University has approximately 1250 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 in English Literature and the Nicholson Professorship in Mathematics are comparable to the distinguished Boyd Professorship. Other awards for outstanding achievement are the 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 Board of Regents calls for LSU to continue to function as a full-scale, comprehensive 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 122 major fields, master’s degrees are offered in 75 major fields, and doctoral degrees are offered in 48 major fields. Four degrees are offered through the University’s three professional schools.

First Degrees

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<tr>
<th>College of Agriculture</th>
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<tbody>
<tr>
<td>Bachelor of Science</td>
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<td>Bachelor of Science in Forestry</td>
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<tr>
<th>College of Arts and Sciences</th>
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<tr>
<td>Bachelor of Arts</td>
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<tr>
<td>Bachelor of Arts in Journalism</td>
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<tr>
<td>Bachelor of Science</td>
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<td>Bachelor of Science in Geology</td>
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<table>
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<tr>
<th>College of Business Administration</th>
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<tr>
<td>Bachelor of Science</td>
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<th>College of Chemistry and Physics</th>
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<td>Bachelor of Science in Cytotechnology</td>
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<td>Bachelor of Science in Medical Technology</td>
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<td>Bachelor of Science in Petroleum-Chemical Engineering</td>
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<tr>
<td>Bachelor of Science in Sugar Engineering</td>
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## Graduate and Professional Degrees

### Graduate School
- Master of Applied Statistics
- Master of Arts
- Master of Business Administration
- Master of Criminal Justice
- Master of Engineering
- Master of Fine Arts
- Master of Forestry
- Master of Journalism
- Master of Landscape Architecture
- Master of Library 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

### University College
- Bachelor of Criminal Justice
- Bachelor of Science in General Studies
- Bachelor of Music
- Bachelor of Science in Construction

### Graduate Division of Education
- Master of Education
- Certificate of Education Specialist

### School of Social Welfare
- Master of Social Work

### School of Veterinary Medicine
- Doctor of Veterinary Medicine

## PHYSICAL FACILITIES

The University is located on a 1944-acre tract of land—a former plantation site—on the southern edge of the city, bordering on the Mississippi River. The University’s more than 120 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 400,000. 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 main cultural and recreational attractions. 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.

## FINANCES

As a state-supported institution, LSU receives most of its funds from legislative appropriations. The budget for 1979-80 totaled $113,536,365. These funds came from:

<table>
<thead>
<tr>
<th>Source of Funding</th>
<th>Amount</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>State appropriations</td>
<td>$53.9*</td>
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</tr>
<tr>
<td>Federal appropriations</td>
<td>0.4</td>
<td>0.3%</td>
</tr>
<tr>
<td>Student fees</td>
<td>16.2</td>
<td>14.3%</td>
</tr>
</tbody>
</table>

*Expressed in millions of dollars.*
Sales and services (educational) .................................................. 1.2  1.1%
Sales and services (noneducational) ........................................... 6.2  5.5%
Sales and services (auxiliary enterprises) ................................. 35.6  31.3%

The 1979-80 Baton Rouge campus dollar was budgeted for:
Instruction ................................................................................. 32.0%
Research .................................................................................. 4.6%
Public service ........................................................................... 3.5%
Academic support ..................................................................... 8.5%
Student services ....................................................................... 1.6%
Institutional support .................................................................. 6.5%
Operations and maintenance ..................................................... 9.9%
Student aid ............................................................................... 1.6%
Debt service and transfers ....................................................... .5%
Auxiliary enterprises ................................................................. 31.3%

Capital construction for auxiliary operations (dormitories, 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.
The following provide various services which may be of interest and benefit to students, faculty, and the community.

**THE TROY H. MIDDLETON LIBRARY**

University libraries at LSU contained approximately 1,708,334 volumes as of June 30, 1978. Special collections in the Middleton Library include the holdings of the Louisiana and Rare Book Rooms, the E. A. McIlhenny Natural History Collection, and the Department of Archives and Manuscripts, which contains over 3.5 million items. The Middleton Library is also a depository for state and U. S. government publications and United Nations documents. Other features of the Middleton Library are the Graduate School of Library Science Library, listening rooms with an extensive collection of recordings, a newspaper and microform collection, and a reserve book room.

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 a School of Banking Collection, some current awareness journals, and reserve materials for business courses above the 4000 level.

A convenient, open-shelf arrangement of the Middleton Library’s main collection makes material completely accessible with assistance offered through a centralized reference service, a central periodicals reading room, and a government documents/business administration reference desk.

The Middleton Library maintains a photoduplication department and a copy service where copies of books, articles, or newspapers may be obtained. Self-service photocopying machines are also available.

When material not found in the Middleton Library is needed for research, faculty, staff, and graduate students may borrow it through Interlibrary Loan.

The Middleton Library contains various collections of materials pertaining to the needs of the University. Especially large subject collections may be found on Louisiana, the history of the Lower Mississippi Valley, Abraham Lincoln, romance languages and literatures, sugar culture and technology, petroleum engineering, plant pathology, micropaleontology, and ornithology.

The Middleton Library’s holdings have been greatly enriched through the acquisition of several private collections. These include the *David S. Blondheim Collection* of about 4000 books and pamphlets on the dialects of France, which forms an important part of the romance-language collection; the *Richard T. Ely*...
Collection on economics and related subjects, containing over 7500 volumes, 10,000 pamphlets, and several thousand manuscripts, periodicals, and documents, among which are rare deeds illustrating land tenure in England from 1500 to the present; and the Jules M. Burguières Sugar Collection, a fine collection on sugar culture and sugar technology.

The Warren L. Jones Lincoln Collection of approximately 5000 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 E. A. McIlhenny Collection of natural history classics was founded in memory of Edward Avery McIlhenny. The original ornithological collection has now 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 Troy H. Middleton Collection of Memorabilia includes various items depicting General 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 Louisiana Room contains an outstanding research and reference collection devoted to printed materials relating to Louisiana. Included are rare and early imprints pertaining to exploration and colonization of the Lower Mississippi Valley, books on Louisiana subjects, books by Louisianians, journals, maps, sheet music, parish and municipal documents, and an extensive vertical file of clippings on numerous Louisiana subjects, as well as a complete historical depository for Louisiana state documents.

The Rare Book Room contains books and pamphlets from all fields of knowledge and human experience except that of natural history. There are representative works ranging from incunabula to publications of modern special presses. Among its largest special collections are the Bruce Rogers Imprints Collection, the Limited Editions Club Books, and the Richard T. Ely Collection. Other notable groups of items include facsimiles of codices, books published in English before 1720, Confederate imprints, major works on North American Indians, books with fore-edge paintings, and modern first editions.

The research collection of the Department of Archives and Manuscripts—consisting of over 3.5 million items and volumes of historical manuscripts, University archives, and related unpublished materials—provides a record of contemporary life in the Lower Mississippi Valley for 200 years. The collection is an important body of primary source material for advanced research in political and social history, cultural geography, agriculture, education, American and Louisiana French literature, speech, sociology, music and other arts, business and economics, steamboat transportation, and other fields in the social sciences and humanities. The collection consists of personal, professional, business, and organizational records, including letters, diaries and other writings, account books, scrapbooks, historical photographs, and oral history interviews; personal and official papers of University presidents and related University archives; and unpublished inventories and research materials of two former federal archival projects in Louisiana.

The Middleton Library’s newspaper collection also contains valuable research materials, especially in Louisiana papers.

The documents collection is extensive. In 1907, the Middleton Library was made an official depository for publications of the federal government; it has a substantial portion of the documents issued both before and after that time. In 1964, the Middleton Library was named one of the two regional depositories in the state, thereby increasing the scope of publications received. Since 1946, the Middleton Library has been a depository for United Nations publications and for publications of UNESCO. As a depository for National Aeronautics and Space Administration reports and a former Atomic Energy Commission depository, the Middleton Library has thousands of scientific reports on microform.

UNIVERSITY 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 50 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. It has especially earned an outstanding reputation in the fields of southern literature, biography, and history.
ARTIST AND LECTURE SERIES

Some of the established series at LSU are the Summer Festival of Arts, the Festival of Contemporary Music, the Thomas Austin Kirby Lectures in the Humanities, the Walter Lynwood Fleming Lectures in Southern History, the William A. Lawrence Lecture, the Edward Douglass White Lectures, the R. J. Russell Lectures, the Hubert H. Humphrey Lectureship in Public Affairs, and the Performing Arts Series.

ORGANIZATION FOR TROPICAL STUDIES

The Organization for Tropical Studies (OTS), a nonprofit scientific and educational corporation, was formed in 1963 by a group of more than 25 American educational institutions, including LSU, having a long history of interest in developing tropical science. The member institutions are dedicated to developing an educational and research program to provide the basis for solving problems in tropical science. Emphasis is on biological sciences and closely allied fields.

OTS has established an educational center for tropical studies in Costa Rica. Central headquarters are in San José in association with the Universidad de Costa Rica. OTS offers its facilities, equipment, and staff for the support of meritorious programs of tropical research. Limited funds are available for qualified faculty and graduate participants so they may initiate programs in tropical research.

Additional information regarding the program and application forms for participation are available in the Office of the Vice-President for Instruction and Research, 115 LSU System Building; from the Committee for Tropical Studies of LSU; 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: Organization for Tropical Studies, Central American Office, Apartado 16, Universidad de Costa Rica, Costa Rica, C.A.).

OAK RIDGE ASSOCIATED UNIVERSITIES

LSU is one of the sponsors of Oak Ridge (Tennessee) Associated Universities (ORAU), a nonprofit education and research management corporation of 43 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 Institute for Energy Analysis, the Special Training Division, the Medical and Health Sciences Division, and its other programs are also open to qualified students and faculty members.

The ORAU Undergraduate Research Training Program offers juniors majoring in the sciences, engineering, and mathematics an opportunity to spend 10 weeks during 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. Faculty members of this University, under the ORAU Faculty Research Participation Program, can go to a DOE facility for varying 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 at fixed rates that change from time to time. Faculty stipends are individually negotiated, based upon the faculty member’s current University salary.
A copy of the bulletin and announcement of the ORAU-DOE university-laboratory programs is available from the LSU Nuclear Science Center. Bulletins also may be obtained from the University Programs Office, Oak Ridge Associated Universities, Inc., Box 117, Oak Ridge, Tennessee 37830. Interested persons should contact Dr. John C. Courtney, who serves as the ORAU Councilor at LSU, or Dr. E. N. Lambremont, who serves as a member of the Board of Directors.

**INSTITUTES**

The institutes of the Division of Continuing Education are treated in the section of this catalog devoted to that division.

**Institute for Environmental Sciences**

The Institute for Environmental Sciences, international in scope, focuses LSU’s educational resources on all aspects of waste disposal and its effects on various groups of society, from the urban complex to the country homeowner to industry itself. The institute serves as a center for the study and control of the chemical environment.

Although the institute devotes a major effort to problems of air and water pollution, its research also extends to many other related fields. Environmental problems in the fields of agriculture, nutrition, food science, and certain aspects of psychology and sociology are studied. Specific projects include the significance of food quality and food contamination, benefits and hazards of using herbicides and pesticides, and the more subtle effects of such everyday environmental factors as temperature, humidity, and noise.

**Institute of Government Research**

The Institute of Government Research is a part of the Department of Political Science. Its functions are the conduct of research, study and analysis, publication, and education of matters of government and public policy. In furtherance of its aims, it develops information, issues publications, conducts educational programs, assembles materials, disseminates information, and provides consulting services on governmental affairs and public policy questions. The staff is drawn from faculty and graduate students of the department.

**Latin American Studies Institute**

The purpose of the Latin American Studies Institute is to stimulate and promote scholarship, research, and teaching excellence in Latin American area studies. This is accomplished primarily through graduate training and research in Latin American history, culture, social change, and development, with special emphasis on Middle America. For additional information, see page 319.

**Louisiana Water Resources Research Institute**

The Louisiana Water Resources Research Institute fosters and supports projects in water research by using facilities and professional skills of the regular University departments. Research preference is given to projects that have a significant training feature for students in the fields of hydrogeology, surface and ground water, or the legal, engineering, and economic phases of water development.

**NUCLEAR SCIENCE CENTER**

The Nuclear Science Center was established as a service facility to the entire University community. Specialized radiation detection and measuring equipment and laboratories accommodate many educational and research activities using nuclear energy technology. Facilities available for experimentation include ionization, proportional, Geiger-Mueller, solid-state, and scintillation detectors; automatic liquid scintillation spectrometers; multichannel gamma spectrometers; a neutron generator; x-ray machines; a kilocurie cobalt-60 pool irradiator; a californium-252 neutron irradiation facility; ultrasonic research and other equipment for nondestructive testing, including neutron activation analysis. Courses in nuclear science are offered in cooperation with several departments of instruction including
nuclear options for bachelor's degree programs in industrial technology and chemistry, and the Master of Science in Nuclear Engineering. In addition to academic and research programs, the center organizes conferences and symposia to advise industry and the general public of nuclear application developments pertinent to Louisiana and the south.

**SYSTEM NETWORK COMPUTER CENTER**

The System Network Computer Center provides computer resources for instruction, research, and administrative data processing. The staff conducts seminars, maintains and develops applications programs, and provides for consultation with center clients. The center also provides resources for contracts, grants, and research institutes at LSU and special short courses and institutes. In addition to local usage, supplementary computer service is provided for all other campuses in the LSU System. An eight megabyte IBM 3033 processor complex supports MVS, TSO, and a large data base.

**MUSEUMS**

**Anglo-American Art Museum**

The Anglo-American Art Museum, located in the 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, as well as works by some of the contemporary masters. An outstanding collection of early oil and watercolor paintings depicting south Louisiana subjects, especially Baton Rouge area views, is also owned by the museum.

**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, also utilized in upper-level courses; its use is arranged through the Curator, 305 Life Sciences Building. It includes pressed specimens filed in metal cases, botanical materials preserved to facilitate anatomical and cytological studies, the Gray Herbarium Card Index, and other selected literature. Its aim is to include specimens of all species in the Louisiana region, as well as other areas, and accession of new material includes that obtained through exchange programs with other institutions and the collections of professional biologists and amateurs. As a depository for such work, its main functions are to verify the plant species involved, geographic ranges, ecological habitats, and variation within species themselves. Various publications, including several books on Louisiana plants, are based on the collections. The herbarium, which includes specimens from as early as 1830, was established by Americus Featheman 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 Systematic Collections.

**Museum of Geoscience**

The Museum of Geoscience holds the most extensive archaeological and geological collections in Louisiana. Research, teaching, and display collections include more than 750,000 items.

The Division of Anthropology and Geography curates archaeological collections including over 500,000 lots from 1800 sites in Louisiana and many other sites in the Gulf Coast and Caribbean regions. The museum 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.

The Division of Paleontology and Geology has large collections of 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 are housed in the Geology Building. They include the Louisiana Indian Room,
displays on evolution, a Louisiana mastodon, rocks and minerals, dinosaur tracks, and a fifteen-case “Introduction to Geology” sequence. Development of a display featuring a skeletal cast of the carnivorous dinosaur *Allosaurus* is under way.

The museum is a member of the Association of Systematics Collections, and the American Association of Museums. A Museum of Geoscience Association for laymen is being organized.

**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 the state’s animal life, and visual aids that explain various biological principles. Future plans for the museum include seven additional dioramas showing scenes from other zoogeographic realms of the world—South America, Africa, Southeast Asia, Australia, the Paleoarctic, and the two types of islands, ancient continental (New Zealand) and oceanic (one of the Galápagos islands).

The Museum of Zoology, a subsidiary of the Museum of Natural Science, contains vast research collections, numbering close to 300,000 cataloged specimens. The bird collections are the fourth largest university-centered assemblage in the U.S. and, for certain parts of the world, the best to be found in any museum. This repository of zoological material provides the basis for a program of organized research by the staff and graduate students and serves as an important aid in the teaching of biological subjects.

**Mycological Herbarium**

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

**Rural Life Museum**

Located on the 450-acre Burden Research Plantation, given to the University by the Burden family, the LSU Rural Life Museum presents a rural community as it would have existed over 100 years ago. Among the major acquisitions are the Howell-Storck collection of rural tools, household furnishings, and medical implements; and several buildings—the overseer’s house, workers’ cabins, and commissary—which were originally on Welham Plantation in St. James Parish. Many other items have been donated by individuals throughout the state.

**THE ALUMNI FEDERATION**

The Alumni Federation is a voluntary organization of graduates and former students of LSU. Active membership in the federation may be obtained by contributing at least $15 annually to the LSU Alumni Fund, and active life membership is granted once an aggregate of $250 has been contributed to this fund. Each active member receives a copy of the *LSU Alumni News*, official bimonthly publication of the Federation. Active members are also eligible for Federation-sponsored charter trips; to apply for various sponsored insurance programs; and to purchase books at discounted prices from the LSU Press. The Office of Alumni Affairs uses a portion of each new graduate’s diploma fee to maintain adequate records and addresses of alumni. The Alumni Federation provides each new graduate with a one-year period of free active membership following graduation.

Alumni gifts are used to support the “Top 100” and other scholarships, Alumni Professorships, faculty awards, student jobs, and various seminars and workshops. Homecoming celebrations, reunions, campus visitations, and fellowship are planned each year by the Alumni Federation, University officials, and the student body.

The Alumni Council, composed of the general elected officers and representatives from each affiliate chapter of the Federation, directs the activities of the Alumni Federation between annual meetings. Affiliate chapters are organized on both academic and geographic lines.
LSU FOUNDATION

Chartered in January 1960, the LSU Foundation is a nonprofit, tax-exempt organization composed of 200 business, professional, and civic leaders who are concerned with the welfare and development of the LSU System. Membership is not restricted to alumni of LSU. The LSU Foundation solicits financial support from business, industry, philanthropic foundations, and individuals to fund programs of educational excellence for the LSU System.

The LSU Foundation was established because state tax appropriations for a public institution like LSU do not provide all the resources necessary for educational excellence. In order for an institution of higher education to rise above the everyday operational level and attain greater heights in educational service, it must receive financial support from sources other than the public treasury. It is this financial support from private sources that the LSU Foundation seeks.

The LSU Foundation has provided the LSU System 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 other similar items which usually cannot be supported entirely with state revenues.

The LSU Foundation accepts undesignated gifts to be used in the academic area of the University where the 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 deferred gifts made through wills or bequests, life insurance policies, annuities, and trusts.

Additional information about the LSU Foundation may be obtained from Director, Development Fund, LSU Foundation, 122 System Building, P.O. Box 19060-B, LSU, Baton Rouge, Louisiana 70893.

ATHLETICS

The Athletic Department operates a broad intercollegiate sports program for men and women. LSU competes on an intercollegiate level with teams from major universities in football, basketball, track (cross-country, indoor, and outdoor), baseball, golf, tennis, swimming, gymnastics, and wrestling.

Athletic facilities include a football stadium with a seating capacity of 76,000, four practice football fields and one practice baseball field, a lighted Tartan-surfaced track with seating accommodations for 5,200, a lighted baseball complex seating 2,500, an 18-hole golf course, a lighted golf range, six lighted tennis courts with a grandstand seating 525, and a six-lane competitive swimming pool which is enclosed during the winter months by an air-supported structure. The Assembly Center, a multi-purpose campus facility, seats 14,350 for basketball and also accommodates gymnastics and wrestling. The Field House provides a 220-yard indoor track facility; a gymnastics practice room; locker rooms for men and women; three regulation handball courts; and a large, unobstructed air-conditioned playing area for basketball, volleyball, indoor tennis, badminton, and other activities. Although it is available as an indoor practice area for varsity football, baseball, track, and tennis teams, the primary use of the Field House is for teaching, organized recreational activity, and leisure-time activity for the University community under the supervision of the Department of Health, Physical, and Recreation Education.

Women’s sports are offered on two levels at the University. As a member of both the national and state Association of Intercollegiate Athletics for Women, LSU competes with other colleges and universities at the varsity level in basketball, gymnastics, swimming, tennis, volleyball, softball, track, and golf. Each sport has its own coach and schedule, and scholarships are available. Further information on the women’s sports program is available from the Coordinator for Women’s Athletics, LSU Athletic Department.

INTRAMURALS, CAMPUS RECREATION, CLUB SPORTS

The intramural program for men and women functions under the auspices of the Department of Health, Physical, and Recreation Education. The programs are designed to provide competitive sports opportunities for the campus community. Many sports activities such as flag football, softball, basketball, volleyball, handball, badminton, wrestling, racquetball, table tennis, tennis, swimming, track, and golf are regularly scheduled during the year. The intramural office furnishes equipment and facilities to individuals, campus groups, and league teams; supervises and coordinates all activities, maintains records, establishes schedules, interprets rules and policies; and supplies officials when necessary.
The Co-Rec program of intramural sports offers a number of sports, such as softball, volleyball, and innertube water polo, in which men and women compete together. The program is available to students, faculty, and staff.

Campus Recreation also provides equipment and facilities for more informal recreational activities. This includes a reservation and supervision system for racquetball-handball courts and tennis courts, as well as supervision of a year-round recreational swim program. All activities are available for students, faculty, and staff.

Club Sports programs are provided for more intense competition in sports not included at the varsity level, such as fencing, rugby, martial arts, water skiing, and soccer.

**PUBLIC RELATIONS**

The Office of Public Relations is comprised of four divisions whose functions are to inform the public of the University's activities, accomplishments, policies, needs, and plans. The Publications staff plans, designs, edits, and oversees the production and distribution of a wide variety of regular and special publications of the University, including this General Catalog. The News Service 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 Information Center, located in the rotunda of the Memorial Tower, receives visitors and acquaints them with campus activities; answers telephone inquiries concerning the University; maintains address directories of students, faculty, and staff members; and maintains the official calendar for the Baton Rouge campus. TV-Radio Service, which is an audio-visual aids service unit, produces radio and television feature material in the form of audio and video tapes for broadcast principally throughout Louisiana and the adjoining region.

The Director of Public Relations also serves as Director of the Anglo-American Art Museum and Administrator of the Rural Life Museum.

**THE LSU UNION**

The LSU Union is a place where people may meet for relaxation, recreation, and social and cultural experiences. The Union, through its student committees and staff, presents a wide range of events designed to appeal to all segments of the University community. Students are automatically members of the Union. Faculty and staff may become members by paying an annual membership fee. Alumni and friends of the University may receive a privilege card by payment of 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 works. The Arts and Crafts Shop extends professional instruction and complete facilities for woodworking, sculpture, ceramics, jewelry craft, poster making, and photography. The four music listening rooms provide a collection of records for all tastes. The browsing room contains files of current magazines, books, and periodicals. The central lobby and main lounge provide space for relaxing and visiting, and the TV lounge offers color television. Auditorium facilities include a 333-seat Colonnade and a 1,315-seat Theatre, which serve as a center of the performing arts at LSU. Many of the activities in these auditoriums are sponsored by student committees. These committees and other student organizations have office space in the Student Organizations Area (SOA) on the second floor. The Union Box Office serves as the sales and distribution center for tickets to all campus-sponsored events. The Games Area offers bowling, billiards, table tennis, and card-playing. A limited-service snack bar is available.

Union meeting rooms may be used by campus groups free of charge, except for social functions or events which require paid admission. The Union reservationist has complete information on reservation policies.

The Union operates a five-chair barbershop. The LSU Bookstore is self-service and stocks required textbooks, school supplies, and convenience items. Mimeograph, azograph, and photocopy services, located in the administrative offices on the second floor, are available at nominal rates to the University community. Lost and found and Western Union 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. A travel agency is located on the ground floor. Check-cashing service is provided by the Bookstore and Box Office.
The Union administers all campus vending. Refunds may be obtained from the Union Information Desk. The Union Tiger Lair and Cafeteria, located on the main floor, provide everything from quick snacks to full-course meals. The Plantation Room 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.

POST OFFICE

University Station, Baton Rouge, Louisiana 70893 is a Federal government post office located in the LSU Union Building. Mail service is provided to students, faculty, and others who live in this area of the city. The office is open from 8:00 a.m. to 4:30 p.m. Monday through Friday and closed on weekends and federal holidays; however, the lobby remains open 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 brothers and/or sisters. Rental fee information may be obtained by writing to: Superintendent, University Station, Baton Rouge, Louisiana 70893. General delivery service is also available. Please note that the 70893 zip code is for post office boxes only; all other campus 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” mail will be delivered to dormitories if it is so addressed. Carriers from the main Baton Rouge post office deliver mail to the married student apartment complexes on Nicholson Drive and West Roosevelt Street.
The University operates on a two-semester plan with an additional nine-week summer term. Qualified applicants, except in the School of Social Welfare and the School of Veterinary Medicine, may register at the beginning of any term.

APPLICATION PROCEDURES

Requests for information and application forms for admission and readmission to academic divisions of LSU should be addressed as indicated below.

Undergraduates, Graduate Division of Education, and Graduate School: Office of Admissions.

School of Social Welfare: Dean, School of Social Welfare.

School of Veterinary Medicine: Dean, School of Veterinary Medicine.

Undergraduate application forms are also available in many Louisiana high schools. In addition, students whose scores on the American College Test are received by the University are sent application packets in their senior year of high school.

Application materials consist of an application for admission, a request for campus housing, and a medical history questionnaire. A former LSU student who has not been enrolled for one or more semesters must submit an application for readmission. Arrangements for admission and housing are made separately through the Office of Admissions and the Director of Housing. Acceptance of an application for admission does not entitle an applicant to University housing, nor is the acceptance of the housing application or assignment to a room a commitment of admission to the University. For further information, see "Application for Dormitory Accommodations," page 70.

Applicants who wish to enroll as full-time students should 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 Service physicians.

An application fee of $10 (check or money order made payable to Louisiana State University and showing the name of the student for whom payment is made) must accompany the application for admission or readmission. In addition, a 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. (Foreign applicants see also page 31.) These service fees are assessed to cover the cost of processing an application. They are not refunded if admission is denied, and they are not applied to the University fee or
nonresident fee if the student subsequently enrolls. If applications and official scholastic records needed to determine eligibility for admission are received by the Office of Admissions after the above dates, a decision concerning admission cannot be assured before registration.

Admission decisions and residence status 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 "University Regulations," page 55, for residence classification regulations.) Residence status is not determined for students auditing only or for students enrolled in correspondence courses of the Division of Continuing Education.

Freshmen Applicants

Applicants for admission to the freshman class should submit their application material as early as possible in their senior year of high school.

Residents of Louisiana should request high schools to send transcripts of their complete scholastic records to the Office of Admissions as soon as possible after completion of the high school course of study.

Applicants who are not residents of Louisiana should request high schools to send transcripts including seven semesters of work as soon as grades for the seventh semester are available. Exceptionally well-qualified applicants may submit transcripts at the end of their junior year of high school. Applicants will be notified concerning acceptance soon after applications and transcripts are received. Applicants who are accepted are required to furnish supplementary records of graduation immediately following graduation from high school.

All freshmen are required to submit scores on the American College Test (ACT). High schools should have application forms for this test. If applications are not available in high schools, they may be obtained 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 gives procedures for registration. Test centers are located throughout the U.S., and tests are 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.

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. Scores on this test constitute a valuable aid in gaining insight into a student's capacity for college work. They are used for placing students at appropriate levels in freshman courses, for counseling, and for selection of scholarship and loan recipients. ACT scores are used for admission and placement decisions for applicants who are not residents of Louisiana, for resident applicants who graduate from nonaccredited high schools, and for applicants to early-admission and concurrent-admission programs.

PRE-ENROLLMENT COUNSELING AND PREREGISTRATION FOR ENTERING FRESHMAN

Freshmen accepted for admission who submit early applications and who have ACT scores on file are invited to participate in a pre-enrollment counseling and preregistration program for the fall semester. Announcements giving dates and complete information regarding this program are sent to applicants and to high schools.

Undergraduate Transfer Applicants

An applicant who has been enrolled at another college or university should submit an application and transcripts as early as possible in the semester preceding the date that admission is desired. Eligibility for admission cannot be determined until the application and complete, official transcripts from each college and university attended have been received. Applicants must list on their application form each college and university attended and have official transcripts sent from each institution, regardless of whether credit was earned or is desired. Students who fail to acknowledge attendance at any college or university in which they have been registered are subject to dismissal from the 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 this record prior to scheduled registration dates. This admission will be canceled if required records are not filed 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.

### 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 term 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 summer-term-only basis who wish to be considered for regular admission in the fall semester must complete a new application for admission and must supply official transcripts of all college-level work previously taken.

### Foreign Applicants

Foreign students with superior scholastic records and adequate English proficiency are considered for admission as freshmen and as transfer students. Freshman applicants must be graduates of recognized secondary schools comparable in level to U.S. high schools. Transfer applicants are considered on the basis of secondary school records, as well as records of post-secondary study (university, institute, or technical schools). 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 Entrance Examination Board, or the Prueba de Aptitud a 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), a test designed to evaluate proficiency in English and 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 08540.

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 December 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 $10—check or money order (checks must be drawn on United States banks);
3. complete, official scholastic records;
4. scores on entrance examinations (if required) and 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.

### ACADEMIC REQUIREMENTS FOR ADMISSION

Applicants who meet educational requirements as listed below are considered for admission. Students whose native language is not English are required to submit acceptable evidence of English proficiency. The University may deny admission, readmission, or continued enrollment to persons whose behavior is disruptive, dangerous, or abusive.

### Freshman Requirements

All freshmen enroll in Junior Division which deals primarily with first-year students—their courses of study and their adjustment to the transition from high school to college. 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.

To prepare for study at LSU, students should follow a college preparatory course in high school. Reading comprehension and the ability to write clear prose are skills essential to college success. Courses in biology, chemistry, and physical science provide the foundation needed in the natural sciences; in the social sciences, courses in American history, world history, and government are important. Courses in mathematics should include, as a minimum, Algebra I and II and geometry.

Louisiana residents who are graduates of state-approved high schools and who have not attended a college or university will be considered for freshman admission when they have made application.

Residents of Louisiana who have not attended another college or university and who are graduates of unapproved high schools may apply for admission by entrance examination. Applicants who have not graduated from high school must be at least 21 years of age and must present satisfactory evidence of education, training, and experience.

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 scores or scores on the Scholastic Aptitude Test of the College Entrance Examination Board, appropriateness of proposed field of study in relation to the applicant’s apparent ability, principal-counselor recommendations, and motivation.

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.

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 in which the student wishes to enroll (or that in the principal’s best judgment, the student is qualified), and recommendation of the head of the appropriate department of the University. Concurrent enrollment will be available only when space, faculty, and other University facilities can accommodate the students.

Special Admission Requirements for the Gifted-Talented

Gifted children of any age who rank in the 99th percentile nationally of their age group on tests administered by an evaluation team certified by the State of Louisiana may be considered for part-time university enrollment. In general, students must meet the following requirements for selection: (1) must have demonstrated outstanding talent in one or more fields of study; (2) must be certified as able to benefit from University-level instruction by appropriate authorities of their school system; and (3) must have completed the school’s most advanced courses in the subject area in which enrollment is desired, or must have demonstrated competence at this level. The 99th percentile requirement may be waived by the Vice Chancellor for Academic Affairs for students who offer convincing evidence of genuinely outstanding talent or accomplishment. Additional information regarding this program may be obtained from the Office of Admissions.

Transfer Student Requirements

Undergraduate students with satisfactory records in accredited colleges and universities are eligible to apply for admission to LSU as transfer students.

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 credit attempted.
A resident of Louisiana who has attended college less than one semester or who has attempted less than 12 semester hours of college credit may be considered on the same basis as that on which a student who earns a similar record at LSU is permitted to register in Junior Division. (See ‘‘Scholastic Regulations for JD Students,’’ page 193.) 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 college credit attempted; students ineligible for transfer because of the 1.75 transfer rule are allowed to enroll in remedial courses on this campus for non-degree credit with the permission of their dean. 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.

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 in their first period of attendance here, 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 residence study in a university or college during the previous calendar year may be considered for admission if they present to the dean of the appropriate college 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; ‘‘F’’ and ‘‘WF,’’ no quality points. All courses taken (including repeated courses), except those in which grades of ‘‘W’’ are recorded are included in the computation of the grade-point average. This policy is followed regardless of the practice of the sending institution or other campuses of the LSU System.

Individual colleges or schools within the University may have specific requirements for admission over and above the minimum requirements listed for consideration for admission to the University. For these requirements, students should consult the appropriate section of this catalog.

ACCEPTANCE OF CREDIT FROM OTHER COLLEGIATE INSTITUTIONS

Evaluations of credits from other institutions are made by the Office of Admissions. These evaluations are not made in advance of receipt of applications and official transcripts from each college and university attended. In general, credit earned in colleges and universities accredited by regional accrediting associations which by its nature prepares students to continue in baccalaureate programs is given full value. Only work which is acceptable by the offering institution as baccalaureate degree credit is accepted. 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 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 credits 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.

Nontraditional credit (credit earned in any way other than through residence study) is awarded according to University policy as stated in this catalog and other official University publications, regardless of the policy of the sending institution. Credit earned by departmental or institutional examinations in other regionally accredited colleges and universities and listed on the official transcripts is recognized in the same way that residence credit earned in those institutions is accepted. Grades earned on these examinations are not computed in the grade-point average. Students who have taken subject examinations in the College-Level Examination Program or who have participated in the Advanced Placement Program of the College Entrance Examination Board should have examination scores sent directly to the Office of Admissions for evaluation. (Refer to page 56 of this catalog for additional information regarding the advanced-standing program). Credit is not awarded for work or travel experience except as validated by appropriate advanced-standing examinations at LSU.

Any credit accepted by the Office of Admissions for transfer to LSU 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 credits should be referred to the Office of Admissions; questions relating to the acceptance of credits 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 Student Requirements

Former LSU students who were not registered on the Baton Rouge campus for the preceding regular semester must file a formal application for readmission. As readmission 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. 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 previously enrolled at LSU who have subsequently enrolled at another institution in the LSU System or in another institution must have official records sent from these institutions before an admission decision can be made. These transcripts are required whether credit was earned or is desired. Failure to acknowledge such attendance and to submit transcripts may result in cancellation of registration.

Students whose last enrollment was in the LSU System or who have scheduled one-half or more of the total semester hours of college credit attempted in the LSU System are considered for readmission if they meet scholastic requirements for continuing students. 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 credits attempted were taken at other institutions.

PROGRAM FOR ADULT SPECIAL STUDENTS (PASS)

Adults who wish to schedule 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 in this status. Students who decide that they wish to work toward a degree or wish to continue their enrollment after having completed 24 semester hours in the adult-special status must apply for regular admission to the University and submit complete, official scholastic records. Credit and grades earned in the Program for Adult Special Students are used in determination of admissibility as regular students and are included on the official transcript. Students in this category who are over 65 years of age do not pay the University fee.

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. Such work, however, will not be removed from students' scholastic records and transcripts. Students qualifying for academic bankruptcy are admitted on scholastic probation. Details of this policy may be obtained from the Office of Admissions.

ADVANCED-STANDING PROGRAM

Students of superior ability and preparation, and students who have already obtained a fundamental knowledge of subjects offered at the University, may be permitted to take advanced-standing examinations in specific courses, which, if passed with satisfactory grades, will enable students to receive degree credit. The Advanced Placement Examinations and certain of the subject examinations of the College Level Examination Program of the College Entrance Examination Board may be used as a basis for allowing advanced-standing credit. Advanced standing policies are given in the "University Regulations" section of this catalog. More detailed information may be obtained from the Office of Admissions.
Qualified students may participate in honors courses offered by various departments, especially in the College of Arts and Sciences. This program provides a special opportunity for students who have outstanding academic records in high school; who have exceptional potential for superior academic performance in college; and who seek added dimension, enrichment, and challenge in their studies. Details concerning the honors program in the College of Arts and Sciences are given in the section of this catalog entitled “College of Arts and Sciences.”
FEES, EXPENSES, SCHOLARSHIPS, AND FINANCIAL AID

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tudent expenses, other than campus room and board 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 $1100 in addition to fees, room, and board per school year. An out-of-town student living off campus can expect to spend $3200 per school year for rent, food, clothing, laundry, cleaning, books and school supplies, transportation, and incidentals. Married students spend approximately $6300. Total first-year expenses for sororities average $600. Monthly dues thereafter average $20. Monthly dues for fraternities range from $20 to $40, exclusive of special fees.

The University may—at any time and without advance warning—modify fees, board, and housing rates. Following is an outline of what a student may expect to spend each semester for fees, room, and board:

<table>
<thead>
<tr>
<th>Full-Time Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Louisiana residents:</td>
</tr>
<tr>
<td>Undergraduates, graduates, social welfare, $281</td>
</tr>
<tr>
<td>Nonresidents:</td>
</tr>
<tr>
<td>Undergraduates, $746</td>
</tr>
<tr>
<td>Graduates, $531</td>
</tr>
<tr>
<td>Social welfare, $531</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Room Rent*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dormitories, $221-464 per semester</td>
</tr>
<tr>
<td>Married-student apartments, $114-180 per month</td>
</tr>
<tr>
<td>Fraternity houses, $290 (average) per semester</td>
</tr>
<tr>
<td>Sorority houses, $380 (average) per semester</td>
</tr>
</tbody>
</table>

*For more information, contact the Director of Housing, 149 Graham Hall.
Board*

Dormitory residents:
15-meal plan (Monday-Friday)—approximately $328 per semester
10-meal plan (Monday-Friday excluding breakfast)—approximately $312 per semester
Summer term 15-meal plan—approximately $176
Summer term 10-meal plan—approximately $168
Fraternity houses, $310 per semester (average)
Sorority houses, $395 per semester (average)
Off-campus meals, $2.75 per meal (average)

FEES SCHEDULES

Application Fee

A nonrefundable application fee of $10 (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.

Student Health Service Fee

All full-time students are required to pay a student health service fee at registration. This fee is dedicated to the Student Health Service and entitles the student to use of the clinic. 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 the fee which enables them to see a physician at the Student Health Service 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 of $1.50 to the Student Government Association; admission to various athletic events; and membership in the LSU Union.

<table>
<thead>
<tr>
<th>Undergraduate Students</th>
<th>FULL-TIME</th>
<th>PART-TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12 or more hrs.</td>
<td>10-11 hrs.</td>
</tr>
<tr>
<td>Resident students:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$261**</td>
<td>$215</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$281</td>
<td>$215</td>
</tr>
<tr>
<td>Nonresident students:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$261**</td>
<td>$215</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>465</td>
<td>400</td>
</tr>
<tr>
<td>TOTAL</td>
<td>$746</td>
<td>$615</td>
</tr>
</tbody>
</table>

*See page 71 for more information.

**Includes a student-imposed allocation of $5 mass transit fee and $1 "The Phone" fee. Spring semester fees will be increased by a $3 student-imposed allocation to the Organizations Relief Fund.
Graduate students registering for “exam only” will be assessed a $50 fee. A field practice fee of $105 per course must be paid by all students enrolled in Social Welfare 5505, 5506, 5605, 5606.

Veterinary Medicine Students

A microscope fee of $40 per semester is assessed each student during Year I and Year II of the professional curriculum.

Summer Term Fees

Undergraduate Students

*Includes a student-imposed allocation of $5 mass transit fee and $1 “The Phone” fee. Spring semester fees will be increased by a $3 student-imposed allocation to the Organizations Relief Fund.

**Nonresident students are accepted only from contract states. Students pay the same fees as residents of Louisiana, with respective states paying an additional increment as specified by contract.
Graduate School, Graduate Division of Education, and Social Welfare Students

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME</th>
<th></th>
<th>PART-TIME</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>6 or more hrs.</td>
<td>4-5 hrs.</td>
<td>1-3 hrs.</td>
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<td><strong>Resident students:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$150*</td>
<td>$120</td>
<td>$80</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>10</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$160</td>
<td>$120</td>
<td>$80</td>
</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
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</tr>
<tr>
<td>University fee</td>
<td>$150*</td>
<td>$120</td>
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<tr>
<td>Student health service fee</td>
<td>10</td>
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<tr>
<td>Nonresident fee</td>
<td>125</td>
<td>80</td>
<td>40</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$285</td>
<td>$200</td>
<td>$120</td>
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</table>

Graduate students registering for "exam only" will be assessed a $50 fee.

Zoology Short Course at Gulf Coast Research Lab

<table>
<thead>
<tr>
<th></th>
<th>UNDERGRADUATE</th>
<th>GRADUATE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resident students:</strong></td>
<td></td>
<td></td>
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<tr>
<td>University fee</td>
<td>$120</td>
<td>$120</td>
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<tr>
<td>Camp fee</td>
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<td>7</td>
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<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee and</td>
<td>$120</td>
<td>$120</td>
</tr>
<tr>
<td>Nonresident fee</td>
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<td>125</td>
</tr>
<tr>
<td>Camp fee</td>
<td>7</td>
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Geology Field Courses (Geology 3666 and 7666)

<table>
<thead>
<tr>
<th></th>
<th>UNDERGRADUATE</th>
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</thead>
<tbody>
<tr>
<td><strong>Resident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$120</td>
<td>$120</td>
</tr>
<tr>
<td>Camp fee</td>
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<td>7</td>
</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee and</td>
<td>$120</td>
<td>$120</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>240</td>
<td>125</td>
</tr>
<tr>
<td>Camp fee</td>
<td>7</td>
<td>7</td>
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</tbody>
</table>

Three-Week Summer Short Courses**

<table>
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<tr>
<th></th>
<th>UNDERGRADUATE</th>
<th>GRADUATE</th>
<th>SOCIAL WELFARE</th>
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<tbody>
<tr>
<td><strong>Resident students:</strong></td>
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<tr>
<td>ONE COURSE</td>
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<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$ 83</td>
<td>$ 83</td>
<td>$ 83</td>
</tr>
<tr>
<td>TWO COURSES</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>126</td>
<td>126</td>
<td>126</td>
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<tr>
<td>THREE COURSES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>158</td>
<td>158</td>
<td>158</td>
</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ONE COURSE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee and</td>
<td>$ 83</td>
<td>$ 83</td>
<td>$ 83</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>100</td>
<td>40</td>
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<tr>
<td>TWO COURSES</td>
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<tr>
<td>Nonresident fee</td>
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<tr>
<td>THREE COURSES</td>
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<td></td>
</tr>
<tr>
<td>University fee and</td>
<td>158</td>
<td>158</td>
<td>158</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>240</td>
<td>125</td>
<td>125</td>
</tr>
</tbody>
</table>

*Includes a student-imposed allocation of $5 mass transit fee and $1 "The Phone" fee. Spring semester fees will be increased by a $3 student-imposed allocation to the Organizations Relief Fund.

**Students enrolled in three-week summer short courses are considered full-time students for the time they are on campus, and as full-time students they are required to pay a student health service fee of $1 per week.
**Special Fees**

**Audit Fees**

Fees for auditing courses are in accordance with the "Regular Semester" and "Summer Term" fees. Maximum fee is $261 for the regular semester and $150 for the summer term. Fees for students enrolling for combined credit and audit work will be assessed in accordance with total hours scheduled.

**Drop Fee**

An administrative charge of $5 will be made for each course dropped by a student after completion of registration. No fee will be assessed for adding courses or for changing sections in the same course. Students will not be charged for dropping courses if the action is initiated by a department or by the college in which they are enrolled or is accomplished for the convenience of the University.

**Graduation Fees**

1. Bachelor's degree diploma fee, $20.
2. Master's degree diploma fee, $30; thesis binding fee, $10.
3. Doctoral degree diploma fee, $50; dissertation binding fee, $30 ($10 for D.M.A. degree).
5. Duplicate diploma fee, $15 (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 students, and auditors) who operate or expect to operate a motor vehicle on campus regularly or occasionally are required to register the vehicle with the LSU Police Department. 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 Student Affairs.

**Fees for Special Courses**

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

**Other Fees for Special Cases**

1. Students registering for "degree only" pay no registration fee. (Such students must register through the Office of Student Records and Registration not later than the beginning of the semester or summer term when the degree is to be conferred.)
2. Graduate registration for examination only, $50. (Candidates for graduate degrees registered for examination only.)
3. Advanced-Standing Examinations, $10 per course. These examinations are given free of charge to students either planning to enroll as freshmen, or enrolled part-time or full-time as first-year students until the beginning of the midsemester examination period of their first regular semester. All other students must pay the $10 fee.

**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 Service program does not provide. Non-immigrant foreign students are required to participate in the LSU Student Insurance Program and must have coverage for repatriation, or demonstrate that they have adequate coverage other than that available through the University. In addition, 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 strongly recommended that the student use a cashier’s check or money order rather than a 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 the age of 65 years 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 $5 per check.

REFUND OF FEES

1. Refund of the University fee and nonresident 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. Field service and transportation fees will be refunded on an individual basis upon recommendation of the department concerned.

3. Reductions and increases of fees resulting from student schedule changes will be refunded or charged in accordance with the above schedule.

4. 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.

5. 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 and nonresident fee refunded. Students in good standing at the University who volunteer 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 and nonresident fee.

6. See page 70 for policy concerning refund of room rent.

SCHOLARSHIPS AND AWARDS

The scholarships and awards listed here are usually awarded on the basis of academic achievement, financial need, character, and citizenship. 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.

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.

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

*"Days of classes" are days on which regular classes are scheduled.
restrictions; and the group that determines which students will receive the scholarship. The following abbreviations are used in the scholarship descriptions:

FR.......................... freshman
SO.......................... sophomore
JR.......................... junior
SR.......................... senior
UG.......................... undergraduate
GR.......................... graduate student
gpa.......................... grade-point average
SA&SCom.................... Faculty Senate Student Aid
and Scholarships Committee
EBR.......................... East Baton Rouge Parish

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

Scholarships and Awards Restricted to a Particular Field of Study

**College of Agriculture**

Agricultural Economics and Agribusiness Alumni Association Scholarship (varies:varies) UG in Dept. of Agr. Econ. & Agribus.; awarded by Dept. of Agr. Econ. & Agribus.

Agricultural Engineering Scholarship (2:$100) FR in Dept. of Agr. Engr.; awarded by Col. of Agr.

ASA—Coca Cola Scholarship (1:$100) UG in Col. of Agr.; awarded by Col. of Agr.

Association of Louisiana Bass Clubs Scholarship (1: $800) Entering La. resident FR planning to major in forestry and wildlife; awarded by Col. of Agr.

"F. O. Bateman Memorial Scholarship (1:varies) SO in forestry and wildlife; awarded by Sch. of For. & Wild. Mgt.

"Baton Rouge Lumber Company Scholarship (1:varies) UG with 2.00 gpa in ind. and tech. educ. curriculum leading to training in building materials management; awarded by Col. of Agr.

Block and Bridle Club Scholastic Award (3:$100) Awarded to outstanding, active club member; awarded by Block and Bridle Club.

CAMECO Award in Agricultural Engineering See College of Engineering.

**Charles Stewart Churchill Memorial Scholarship (varies:varies) UG in Col. of Agr.; awarded by SA&SCom. on recommend. of Col. of Agr.


Danforth Leadership Training Scholarship (2:varies) FR boy and girl in Col. of Agr.; 2 wks. at leadership camp; awarded by Col. of Agr.

M. N. Davidson Foundation Scholarship (1:$500) UG in ind. and tech. educ. curriculum leading to training in building materials management; awarded by M. N. Davidson Foundation.

Sibyl and Joseph Doré Memorial Scholarship in Agriculture (2:varies) SO/SR in agronomy particularly interested in rice breeding, culture, processing, marketing, or utilization; awarded by Col. of Agr.

"Marc Dupuy, Jr., Wildlife Conservation Scholarship (1:$150) La. high school graduate, preferably from Avoyelles Parish, planning to enter Sch. of For. & Wild. Mgt.; awarded by Sch. of For. & Wild. Mgt.

"Fastings Agricultural Scholarship (3:$500) SO/JR/SR in animal science, dairy production, or pre-veterinary medicine; SO must have 2.50 gpa, others 3.00 gpa; awarded by Col. of Agr.


4-H Club Honor Award (varies: $25 fee exemption/sem.) Based on competition at annual 4-H Club Short Course at LSU; awarded by Col. of Agr. on recommend. of state 4-H Club Agent.

J. B. Francioni, Jr., Scholarship (1:$500) Outstanding member of the Block and Bridle Club; awarded by Col. of Agr.

Joseph W. Freeland International Agriculture Scholarship (1:$500) UG with direct interest in international agriculture; awarded by Col. of Agr.

Future Farmers of America Honor Award (varies: $25 fee exemption/sem.) 1st place winners in state F.F.A. contests; awarded by Col. of Agr.

John P. Gray Memorial Award (1:$200) Outstanding JR/SR in Dept. of Agronomy majoring in crop science or closely related field; awarded by SA&SCom. on recommend. of Dept. of Agron.

Greater Baton Rouge Building Materials Dealers Award (1:varies) UG in curriculum leading to training in...
building materials management; awarded by Dept. of Ind. and Tech. Ed.

Travis P. Hernandez Scholarship (1:$300) UG in Dept. of Hort.; awarded by Col. of Agr.

Home Economics Alumni Association Scholarship (1: $600) Full-time FR planning to major in home economics; awarded by Sch. of Home Econ.

Industrial and Technical Education Alumni Association Scholarship (1: varies) UG in Dept. of Ind. and Tech. Educ.; awarded by dept.

Clyde Ingram Memorial Scholarship (1:$500) UG; La. resident in poultry sci.; awarded by Dept. of Poultry Sci.

Dean Lee Memorial Scholarship (2:$300) Entering FR in Col. of Agr.; awarded by Col. of Agr.


Louisiana Land and Exploration Company Scholarship in Wildlife Management (1:$500) SR in forestry; La. resident; awarded by Sch. of For. & Wild. Mgt.

Louisiana Rural Rehabilitation Corporation Scholarship (10:$700) Entering FR planning to major in agricultural area or home econ.; must be member of La. farm family and show evidence of financial need; awarded by Col. of Agr.

LSU Forestry Alumni Memorial Scholarship (2:$100) UG in forestry; awarded by Sch. of For. & Wild. Mgt.

S. E. McCraine Scholarship (1:$500) UG in agricultural curriculum; awarded by Col. of Agr.

T. K. McKnight Memorial Scholarship (1:$300) SR/GR in horticulture; La. resident with 3.00 gpa; awarded by Col. of Agr.

John J. Mikell Scholarship (1:$250) UG in horticulture; active member of LSU Horticulture Club; awarded by Col. of Agr.

*Julian C. Miller Scholarship (1:$200) JR/SR in horticulture; awarded by Dept. of Hort. and Col. of Agr.

Laurie S. and Helen Nelson Mobley Scholarship (1:$600) Entering FR from Pointe Coupee Parish; awarded by Col. of Agr.

Moorman Manufacturing Company Scholarship (4: $775) Entering FR in agriculture; awarded by Col. of Agr.

National Fisheries Institute Scholarship (1:$500) UG in food sci.; awarded by Dept. of Food Sci.

Dr. Arthur F. Novak Fellowship (1:$500) UG or GR in food sci. interested in doing research in the shrimp industry; awarded by Dept. of Food Sci.

Karl Ott, Sr., Memorial Scholarship (1:$500) SR in forestry; resident of La. or Miss.; awarded by Sch. of For. & Wild. Mgt.

Ralston Purina Scholarship (1:$650) Outstanding UG in agriculture; awarded by Col. of Agr.

D. W. Rosewall Scholarship (1:$800) JR/SR majoring in entomology; La. resident; awarded by Col. of Agr.

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


Seedling and Sapling Club Forestry Scholarship Award (1: varies) Outstanding student in Sch. of For. & Wild. Mgt.; awarded by Seedling and Sapling Club.

Southern Farm Equipment Manufacturers, Inc., Scholarship (1:$400) FR planning to major in agr. engr. or agr. mechanization; awarded by Col. of Agr.

Erich Sternberg Memorial Scholarship (1:$300) SO from EBR in merchandising; awarded by Sch. of Home Econ.

*The Stretch and Sew-Harper’s Bazaar Scholarship (1:$300) UG in home economics; awarded by Col. of Agr.

Tate-Grey Agricultural Scholarship (1:$600) 2nd sem. FR from Evangeline Parish; awarded by Col. of Agr.

*Clevie Willett Scholarship in Animal Science (1: $500) UG in animal science; awarded by the Col. of Agr.

Louis Windham Memorial Scholarship (1:$150) SO in agr. engr. with 2.50 gpa; awarded by Dept. of Agr. Engr.

Woods and Water Scholarship (1:$300) JR/SR in Col. of Agr. or Col. of Design, in an ecology-related area; awarded by SA&SCom. on recommend. of Col. of Agr. or Col. of Design.

*Herbert S. Benjamin Memorial Scholarship (1:$500) JR/SR advertising major; awarded by Sch. of Jour.

*Lou Audrey Benjamin Memorial Scholarship (1: $500) JR/SR advertising major; awarded by Sch. of Jour.

Lillian Bourdier Scholarship (1:$200) Journalism student; awarded by Sch. of Jour.

Communications Workers of America Scholarship (1: $500) JR in Col. of A&S, Col. of Bus. Admin., or Sch. of

*Funded through LSU Foundation.

College of Arts and Sciences

Jour.; awarded by SA&SCom. on recommend. of dept. heads.

Curriculum Scholarship (3:$250) Outstanding students in the news-editorial, broadcast journalism, and advertising curricula; awarded by Sch. of Jour.

*Margaret Dixon Journalism Award (1:$100 and silver bowl) SR woman journalism student; media achievement; awarded by Sch. of Jour.

*Monica Donellan Memorial Scholarship (1: varies) Financial need is primary consideration; awarded by Dept. of Geol.
Robert Ewing Scholarship (3:$800 plus fee exemption) Journalism student who has completed SO yr., attended LSU at least one year, and has 3.00 gpa; awarded by Sch. of Jour.

Getty Oil Company Foundation Scholarship (2:$750) SR/GR in geology; awarded by Dept. of Geol.

Walter Hitesman Scholarship (6:$200 per sem.) UG having financial need and showing great promise as a journalist; awarded by Sch. of Jour.

Henry V. Howe Memorial Scholarship Fund (1:varies) Outstanding FR in geology or geography; awarded by Dept. of Geol.

Louisiana Land and Exploration Company Scholarship in Geology (3:$500) SO/JR/SR in geology; awarded by Dept. of Geol.

*Charles P. Manship Memorial Scholarship (1:$500) SO/JR/SR in journalism with 2.50 gpa in journalism courses; awarded by Sch. of Jour.

New Orleans Geological Society Scholarship (1:$750) UG geology major; awarded by Dept. of Geol.

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

Corinne L. Saucier Romance Language Scholarship (1:$870) Graduating SR in French or Spanish, for advanced study at LSU or in foreign country; preference to students planning to teach; awarded by Dept. of Foreign Lang.

Sternberg Award (2:book award) SO in Col. of A&S Division of Honors and Interdisciplinary Studies; awarded by Col. of A&S.

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

Dr. Lester J. Williams Scholarship in Journalism (1:$100) Award for meritorious reporting for The Daily Reveille; awarded by Sch. of Jour.

College of Business Administration

Arthur Andersen & Co. Award (1:$200) Most active member of Beta Alpha Psi; awarded by Dept. of Acct.

Betta Alpha Psi Award (1) 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.

Burden Foundation Memorial Scholarship for Dr. Lester J. Williams (1:$100) JR/SR; awarded by Col. of Bus. Adm.

Capital Bank and Trust Co. Scholarship in Memory of Allison R. Kolb (1:varies) JR/SR in finance with at least 3.00 gpa; awarded by the Col. of Bus. Adm.

Communications Workers of America Scholarship See College of Arts and Sciences.

Coopers & Lybrand Award (1:$500) JR showing outstanding academic qualifications, extracurricular activities, leadership, and character; awarded by Dept. of Acct.

*Ted F. Dunham Scholarship (2:$1000) FR from Winn Parish entering the Col. of Bus. Adm.; applicants must have ACT score of 18.

Hawthorne, Waymouth, and Carroll Scholarship (1:$250) SR acct. major who indicates ability to succeed in public accounting in the environment of the local practitioner; awarded by Dept. of Acct.

*Louisiana Bankers Association Scholarship in Banking and Finance (1:varies) UG/GR in field of banking and finance; awarded by Dept. of Fin.

Louisiana Consumer Finance Association Award (2:$250) JR/SR; awarded by the Col. of Bus. Adm.

Louisiana Motor Transport Association (Baton Rouge Chapter) Award (1:$440) FR planning to major in bus. adm.; awarded by SA&SCom.

*Mike McNeal Memorial Scholarship (1:$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 & SCOM from recommendation by principal of Tara High School.

National Association of Accountants Award (Baton Rouge Chapter) (1:$250) SR/GR in acct.; awarded by Dept. of Acct.

*James M. Owen Memorial Scholarship (varies:$200) UG showing promise of attaining high personal and professional standards of Dr. Owen; awarded by Dept. of Acct.

Peat, Marwick, Mitchell & Co. Award (1:$200) Outstanding student in basic auditing course; awarded by Dept. of Acct.

Price Waterhouse & Co. Award (1:$200) Outstanding JR accounting major; awarded by Dept. of Acct.

Realtor Associates Organization Award (1:$200) JR/GR in real estate; awarded by Col. of Bus. Adm.

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

*R. T. Reckling Memorial Scholarship (1:full-time resident fee including health service fee) JR in international trade and finance; 3.00 gpa; awarded by Dept. of Econ.

Shell Companies Foundation, Inc. Award (2:$250) One award to outstanding JR/SR; one award to outstanding student in cost acct.; awarded by Dept. of Acct.

*Funded through LSU Foundation.
College of Chemistry and Physics

American Institute of Chemists Medal (1) Chem. or chem. engr. major who is candidate for graduation in spring; receives subscription to The Chemist.


*A. R. Choppin American Legion and American Legion Auxiliary Scholarship (2:$750) UG enrolled or planning to enroll in Col. of Chem. and Phys.; La. resident; former citizen of Boys’ or Girls’ State; awarded by Col. of Chem. & Phys.

Charles E. Coates Undergraduate Honor Award in Chemistry and Physics (1:$750 plus nonresident fee exemption) UG enrolled or planning to enroll in Col. of Chem. and Phys. with at least 3.00 gpa; awarded by Col. of Chem. & Phys.

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

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

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

Joy Holm Memorial Scholarship Fund (1:$500) JR in medical technology; awarded by La. Society of Medical Technologists.


*W. W. Tison Memorial Scholarship (1:$300) UG majoring or planning to major in chem. in Col. of Chem. and Phys.; awarded by Dept. of Chem.

*Travis Varner Memorial Scholarship (1:varies) UG in computer science; selected by Dept. of Comp. Sci.; established by BR Chapter of Data Processing Management Association.

*Virginia R. Williams Memorial Scholarship (1:$500) Outstanding female UG in biochem. or chem. or male UG in biochem.; minimum 3.00 gpa; awarded by Col. of Chem. & Phys.

College of Design

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

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

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

Baton Rouge Art League Award (1:$100) JR/SR/GR in art with minimum 3.00 gpa; awarded by Sch. of Art.

Certificate of Merit, American Society of Landscape Architects (1) Outstanding SR in landscape architecture; 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 (3) Awarded to outstanding graduate in each school; not necessarily highest gpa; voted on by faculty; awarded by dean.

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

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

Guild Gallery Scholarship (1:$125) SR in art; recipients also have show each spring at Guild Gallery; awarded by La. Art and Artists’ Guild.

Interstate Commercial Interiors (Division of Interstate School Supply) Award (2:$50 or $100) Outstanding JR/SR in interior design; awarded by Sch. of Arch.

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

Louisiana Garden Club Federation, Inc. Scholarship (1:$500) Outstanding student in land. arch.; resident of La.; based on scholarship and financial need; awarded by Sch. of Land. Arch.

*Mckay’s Interiors Award (2:$50 or $100) Outstanding JR/SR in residential interior design; awarded by Sch. of Arch.

*Helen Adams Reich Memorial Scholarship (1:varies)

*Sponsored by LSU Alumni Federation.

*Funded through LSU Foundation.
Preference to nonresident UG in land. arch.; awarded by Sch. of Land. Arch.

Reynolds Aluminum Award (varies:varies) Student in arch. on basis of design competition prize; awarded by

Reynolds Aluminum Co. through Sch. of Arch.

Woods and Water Scholarship See College of Agriculture.

College of Education

Alpha Delta Kappa Scholarship (1:$250) SO in Col. of Ed. with at least 3.00 gpa; awarded by Col. of Ed. and Alpha Delta Kappa.

Marietta Boon Endowment Scholarship (1:varies) SR in Col. of Ed. with at least 3.00 gpa; unmarried; awarded by Col. of Ed.

Kappa Delta Pi Award

Kappa Phi Kappa Award (1) Plaque presented to out-

standing male SR at spring commencement in recognition of scholarship, leadership, and service; awarded by Col. of Ed.

Clyde Leslie Madden Memorial Endowment Fund Scholarship (1:varies) UG in Col. of Ed.; awarded by Col. of Ed.

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

College of Engineering

AWARDS

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

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

Paul M. Horton Award (1:varies) 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. Engr. Awards Committee.

SCHOLARSHIPS

W. R. Aldrich Memorial Engineering Scholarship (varies:$200 to $500) UG in engineering; awarded by Col. of Engr.

Allied Chemical Scholarship (4:$750) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Aminoil USA Scholarship in Petroleum Engineering (2:$750) UG in pet. engr. based on scholarship; U.S. citizen; awarded by Dept. of Pet. Engr.

Amoco Foundation Scholarship (4:$700, $800, $900, $1000) FR in pet. engr.; renewable; awarded by Dept. of Pet. Engr.


CAMECO Award in Agricultural Engineering (3:$400) Student in agr. engr. with a 2.25 gpa; awarded by Dept. of Agr. Engr.

Chevron Oil Company (California Company Division) Scholarship in Petroleum Engineering (2:$500) UG in

pet. engr.; U.S. citizen or permanent immigration visa; awarded by Dept. of Pet. Engr.

Chevron Oil Company (Western Division) Scholarship in Petroleum Engineering (2:$500) UG in pet. engr.; U.S. citizen or permanent immigration visa; awarded by Dept. of Pet. Engr.

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


B. C. Craft Memorial Foundation Scholarship (1:$500) UG in pet. engr.; awarded by Dept. of Pet. Engr.

Dow Chemical Scholarship in Chemical Engineering (varies:varies) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Getty Oil Company Foundation Scholarship (5:$1000) UG in pet. engr.; awarded by Dept. of Pet. Engr.

* Henry Gilbert Scholarship (3:varies up to $2,000) UG/GR in pet. engr.; preferably from New York area; awarded by Dept. of Pet. Engr.

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

I. H. Gottlieb Memorial Scholarship See College of Chemistry and Physics.

* Industrial Engineering Sustaining Scholarship (varies:$100) UG in ind. engr.; awarded by Dept. of Ind. Engr.

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

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

* Funded through LSU Foundation.
Kaiser Aluminum Scholarship in Mechanical Engineering (varies; varies) UG in mech. engr.; awarded by Dept. of Mech. Engr.

Kerr-McGee Foundation, Inc. Scholarship (1:$500) UG minority student in chem. or pet. engr.; awarded by Col. of Engr.

Louisiana Land and Exploration Company Scholarship in Civil Engineering (2:$500) JR/SR in civil engr.; U.S. citizen, preferably from La.; awarded by Dept. of Civil Engr.


Louisiana Power and Light Company Scholarship in Mechanical Engineering (1:$500) JR/SR in mech. engr.; 2.50 gpa; La. resident; awarded by Dept. of Mech. Engr.

Marathon Oil Foundation Scholarship (1:$800) SO in engr.; renewable; apply to Col. of Engr.

Marathon Oil Scholarship in Petroleum Engineering (1:$700) UG in pet. engr.; awarded by Dept. of Pet. Engr.

Monsanto Company Scholarship in Mechanical Engineering (varies; varies) UG in mech. engr.; U.S. citizen; awarded by Dept. of Mech. Engr.


*George R. Reymond Memorial Undergraduate Scholarship (2:$500) SO/JR in elec. engr.; awarded by Dept. of Elec. Engr.

T. H. Scott, Sr., Scholarship (2:$200) See College of Agriculture.

Shell Funds for Women’s Careers (1:$600; 2:$500) SO/JR/SR women in engineering; awarded by Col. of Engr.


Major J. Stewart Slack, Jr., Memorial Scholarship See College of Arts and Sciences.

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

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

Stauffer Chemical Company Scholarship in Chemical Engineering (varies; varies) JR/SR in chem. engr., with preference to children of Stauffer employees; awarded by Dept. of Chem. Engr.


Tenneco Oil Company Scholarship (6:$500) UG in chem. engr., mech. engr., and pet. engr.; awarded by dept. in which student is enrolled.

Union Oil Company of California Foundation Scholarship in Petroleum Engineering (5:$500) UG in pet. engr. on basis of scholastic achievement; awarded by Dept. of Pet. Engr.

Louis Windham Memorial Scholarship See College of Agriculture.

Woman’s Auxiliary to the Louisiana Engineering Society (Baton Rouge Chapter) Award (2:$600) UG in engineering from Baton Rouge 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 New Orleans area; apply to Dept. of Civil Engr.

Women in Engineering or Engineering Technology Scholarship (2:$250) 1 in engr. tech. selected by engr. graphics faculty; 1 in engr. awarded by Col. of Engr.

Vulcan Materials Scholarship in Chemical Engineering (1:$500) UG in chem. engr.; awarded by Dept. of Chem. Engr.

General College

DEPARTMENT OF CONSTRUCTION

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

*AGC Construction Industry Advancement Program of Baton Rouge and Vicinity Scholarship (3:$1000) Resident of the following parishes: East Baton Rouge, West Baton Rouge, Pointe Coupee, Iberville, Ascension, East Feliciana, West Feliciana, Livingston, St. Helena,

*Fund through LSU Foundation.
Baton Rouge Chapter National Electrical Contractors Association Scholarships (3:$1000) UG in Dept. of Const.; resident of the following parishes: East Baton Rouge, West Baton Rouge, Pointe Coupee, Iberville, Ascension, East Feliciana, Livingston, St. Helena, or St. Landry.

*Home Builders Association Ladies Auxiliary Scholarship in Construction (2:$320) Entering FR in construction; graduate of La. high school; awarded by Dept. of Const.

*Matthews-McCracken-Rutland Scholarship (1: $1500) UG in Dept. of Const. (30 hours completed) with satisfactory scholastic record; resident of La.; awarded by Dept. of Const.

National Association of Women in Construction (1:$500) Full-time female students recommended by professors; must have good scholastic average and plan to pursue a career in construction upon graduation; awarded by National Association of Women in Construction, Baton Rouge Chapter #6.

JUNIOR DIVISION

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

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

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

UNIVERSITY COLLEGE

*Larry Chachere Scholarship (1:varies) Full-time SO in general studies; at least 3.00 gpa.

*General Studies Scholarship (1:varies) At least 36 hours in general studies; full-time; at least 3.00 gpa.

School of Music

A Cappella Choir Awards (varies:$50 per semester) Recipients determined by audition; awarded by Sch. of Mus.

Band Service Award (varies:varies) Recipients determined by audition; payable at end of each semester of satisfactory participation in one of the LSU bands; details available from director of bands; awarded by director of bands.

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

Baton Rouge Rotary Club Scholarship (1:$1000) Female voice student in Sch. of Mus.; awarded by Rotary Club.

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

*Frank Collins Memorial Scholarship (1:varies) UG/GR organ majors; awarded by organ faculty with approval of dean. Sch. of Mus.

*Helen Libbey Cordiner Scholarship in Violin (1:$500) UG string major in Sch. of Mus. or instrumental music major in music education; above average academic record; awarded by Sch. of Mus.

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

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

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

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

In-State Tuition Scholarship in Music (10:University fee) UG/GR with musical ability and high scholastic standing; La. resident; awarded by dean. Sch. of Mus.

*L. Bruce Jones Memorial Scholarship (1:varies) UG/GR majoring in music education with above average academic record; awarded by Sch. of Mus.

LeDoux Music Company Scholarship (1:$350) Entering FR in music; annual competition in spring for pianists and instrumental soloists; limited to residents within 100 miles of LSU; awarded by Sch. of Mus.

Celuda Jewel Liddle Piano Scholarship (Baton Rouge Piano Teachers Association) (1:$125) Entering FR planning to study piano; awarded by B.R. Piano Teachers Assoc.

Louisiana Federation of Music Clubs Honor Award (2:$25 fee exemption/sem.) High school students earning superior ratings in voice, piano, or violin in State Competition Festival sponsored by the La. Federation of Music Clubs; awarded on recommend. of dean. Sch. of Mus.

Nonresident Scholarship in Music (varies:nonresident fee) UG/GR with musical ability and high scholastic standing; UG must maintain a 2.30 average; GR must maintain a 3.00 average; awarded by dean. Sch. of Mus.

Orchestra and Vocal Awards (varies:$50 per sem.) UG/GR who has successfully completed one sem. as member of Univ. orchestra or a cappella choir; awarded by Sch. of Mus. on recommend. of conductor of orchestra or a cappella choir.

Frank Crawford Page Memorial Scholarship (1:varies) UG/GR music major; awarded by Sch. of Mus.

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

*Funded through LSU Foundation.
Other Scholarships and Awards

*严重的 Pianog Class Scholarships (varies: $500) Entering FR, chosen through competition; awarded by Sch. of Mus.

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

Gertrude Bott Saucier Scholarship (Baton Rouge

*Dr. & Mrs. Jack A. Andonie Endowed Athletic Scholarship for Football (1: varies) UG in football; will be in accordance with NCAA regulations.

Athletic Grants-in-Aid

The Bicentennial Endowed Scholarship of LSU (varies: varies) Worthy student; awarded by SA&SCom.

Board of Supervisors Scholarship (45: fee exemption, not to exceed $250 per regular semester and $125 per summer term to La. resident; fee exemption, not to exceed $250 of the nonresident fee per regular semester and $125 per summer term to nonresidents) UG/GR/professional student; awarded by Board of Supervisors members and President of LSU System.

*Donald B. Bohn Endowed Scholarship for Football and Basketball (1: varies) Will be in accordance with all regulations of NCAA, SEC, and LSU; awarded by Dept. of Athletics.

Robert Stevens Butler Award (1: varies) Port Allen High School graduate who compiles highest scholastic average during freshman year at LSU; awarded by SA&SCom.

Nathaniel M. Caffee Freshman English Medal (1) Medal 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&SCom.

Campus Club Scholarship Award (1: $100) 2nd semester SO with gpa of 3.50 or better; son or daughter of persons eligible for Campus Club membership; awarded by SA&SCom.

*Capital City Kiwanis Club of Baton Rouge Scholarship (1: $600) Entering FR from East Baton Rouge Parish; maintain 2.00 gpa; awarded by SA&SCom.

Capitol Lodge No. 29, Knights of Pythias Memorial Scholarship (1: $500) Entering FR; awarded by SA&SCom.

Chancellor’s Freshman Honor Award (varies: $100) Full-time FR in top 10% of high school senior class, with at least 20 composite score on ACT, and leadership qualities; only for fall semester following high school graduation; cannot be renewed; awarded by SA&SCom.

Music Club (1: varies) JR instrumental student, by audition; awarded by Baton Rouge Music Club.

Gertrude Bott Saucier Scholarship (Baton Rouge Opera Guild) (1: varies) Outstanding vocal student enrolled in opera workshop in Sch. of Mus.; awarded by Baton Rouge Music Club.

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

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

Lucille May Grace Dent Memorial Scholarship (1: $100) Outstanding SO Army ROTC cadet who has been 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&SCom.

East Baton Rouge Parish Home Demonstration Council Scholarship (2: $320) Entering FR from EBR Parish high school; upper 50% of class; awarded by SA&SCom.

Foreign Student Undergraduate Nonresident Honor Award (5: $830) Foreign student; awarded by International Educ. Committee.

*Leslie G. Gruber Scholarship (varies: varies) Incoming Tennessee high school graduate(s) who has shown academic ability.

*Leon Guerin—Al Evans Memorial Scholarship (2: $250) La. high school graduate who has shown academic ability and financial need; awarded by SA&SCom.

*Fannie Guy Memorial Scholarship (1: $500, 1: $600) Graduate of DeSoto Parish high school; awarded by SA&SCom.

Honor Award for Nonresident Sons and Daughters of LSU Alumni (15: $830) Entering FR; resident of state other than L.a.; awarded by SA&SCom.

Honor Student Honor Award (13: $270) Based on scholastic record; awarded on recommendation of dean of college in which student is enrolled.

Intramural Athletic Prize for Army and Air Force ROTC (1: $60) Outstanding cadet on basis of participation, sportsmanship, and leadership; awarded by director of intramural sports.

**International Alumni Scholarship (varies: varies) UG foreign student; awarded by International Educ. Com., on recommend. of local alumni chapter.

*James M. Koeneme Memorial Scholarship (1: $500) Entering FR; must maintain a 3.00 gpa; awarded by SA&SCom.

*Russell Lobdell Memorial Scholarship (1: $300) SO from Baton Rouge; retain 3 years if maintain 3.00 gpa.

**LSU Alumni Federation Scholarship (Baton Rouge Campus) See section below.

*Funded through LSU Foundation.

**Sponsored by LSU Alumni Federation.
**LSU Alumni Federation Scholarship (Greater Washington, D. C., Chapter) (1:$300 plus summer internship stipend) JR/SR in journalism, law, political science, or public administration; awarded by SA&SCom. on recommend. of Col. of Bus. Adm., Sch. of Journ., Law Center, Dept. of Pol. Sci.**

**LSU Alumni Federation Scholarship for Nonresidents of Louisiana (10:$730 plus stipend) Entering FR, resident of state other than La.; awarded by SA&SCom.**

**LSU Freshman Honor Award (Baton Rouge Campus) See section below.**

Louisiana Boys' State Honor Award; Louisiana Girls' State Honor Award (12:$25 fee exemption/sem.) Awarded by director, Louisiana Boys' State and Louisiana Girls' State.

Louisiana Junior Academy of Sciences Honor Award (varies:$25 fee exemption/sem.) Awarded by La. J. Academy of Sciences.

Louisiana State Science Fair Honor Award (varies:$25 fee exemption/sem.) Awarded by La. State Science Fair.

*Captain John Adrian Martin Memorial Scholarship (1:$500) Entering FR; male graduate of Woodlawn High School (B. R., La.); awarded by SA&SCom. on recommend. of Woodlawn High School principal.

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

*Mattye F. McGivney Memorial Scholarship (varies: $500) SO/JR/SR; La. resident with 3.00 gpa; awarded by SA&SCom.

*Anna R. Meyer Memorial Scholarship (1:$200) UG male from Ouachita Parish; awarded by SA&SCom.

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

Chep Morrison Memorial Scholarship (1-2:$400) UG in pre-law with 3.00 gpa; awarded by SA&SCom.

National Association of Teachers of French Scholarship (varies:$25 fee exemption/sem.) Awarded by Nat'l. Assoc. of Teachers of French, La. Chapter.

Nonresident Undergraduate Honor Award (45:$830) Outstanding nonresident UG; awarded by SA&SCom.

*Vera Lee and Glen H. Olds, Jr. Scholarship (1:$250) UG; awarded by SA&SCom.

President's Scholarship (50:$450) SO/JR/SR; awarded by SA&SCom.

*Harry A. Rabenhorst Student-Athlete Scholarship Fund for Basketball (1:varies) Awarded by Dept. of Athletics.

**ROTC Scholarship See section below.**

Scholarship for Nonresident Sons and Daughters of LSU Graduates (varies:nonresident fee exemption not to exceed $250 per sem.) FR; ACT score of 21 or more; 2.50 or better gpa for continuation.

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

Sigma Xi Award (1:$50) Outstanding graduating SR in science.

State Literary Rally Honor Award (varies:$25 fee exemption/sem.) Awarded to 1st place winners in La. State Literary Rally; winners in two or more events receive larger fee exemptions.

State School for the Blind Scholarship (varies:$25 fee exemption/sem.) Graduates of La. State School for the Blind; awarded by the Division of Academic Services on evidence of eligibility.

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

Undergraduate Scholarship for Children of Louisiana Police Officers or Deputy Sheriffs Killed or Permanently Disabled in Performance of Duty (varies:varies) Recipients exempted from payment of University fee and charges for room and board; cash grants of $125 per semester for books.

*Dr. Charles Henry Voss Memorial Scholarship (1:$250) UG; La. resident; awarded by SA&SCom.

Horace Wilkinson, III, Memorial Scholarship (1:varies) UG; awarded by SA&SCom.

Fred B. and Ruth B. Zigler Foundation Scholarship (2-3:$1000) Entering FR; resident of Jefferson Davis Parish; awarded by donor.

William H. Zinn Scholarship (1:$120) UG; awarded by SA&SCom.

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.

Alumni Federation Scholars Program

Each year, through the combined efforts of the University and its Alumni Federation, LSU invites approximately 100 academically superior Louisiana high school seniors to take part in its most prestigious scholarship program. Scholarships ranging from $2000 to $6000 for four years of undergraduate work will be awarded to those students selected.
The scholars invited will be chosen by the Faculty Senate Student Aid and Scholarships Committee, and—because this particular program is designed for the specific purpose of honoring students who show outstanding academic promise—the financial need of an applicant will not be a factor in selection. The applicants will be judged according to the following criteria: (1) American College Test (ACT) scores; (2) high school academic record; and (3) National Merit selection index score.

High school students desiring to be considered for this program should:
1. Take the National Merit Test during the junior year of high school.
2. Take ACT no later than October of the senior year in high school. To do this, applicants must register for the test at least one month prior to the testing date. Registration material should be available in either the principal’s or counselor’s office at each high school. In the event such material is not available, school officials may contact the Registration Department, American College Testing Program, P. O. Box 414, Iowa City, Iowa 52240.
3. Submit an LSU “Scholarship Application” by December 1 to the Office of Student Aid and Scholarships. These forms are usually available at all Louisiana high schools. They may also be obtained by contacting the Office of Student Aid and Scholarships.

Honor Awards

Louisiana high school seniors graduating in the top 5 percent of their classes and planning to enroll at LSU may be recommended by their principals to receive LSU Freshman Honor Awards. Approximately 250 Honor Awards of $125 each are available. The Faculty Senate Student Aid and Scholarships Committee has the final responsibility for determining winners. High school valedictorians are given preferential consideration, and ACT scores are an important aspect of the selection process. Honor awards are given only if recipients enroll at LSU for their freshman year.

Freshman Honor Awards are converted to Centennial Honor Awards if recipients continue enrollment at LSU and maintain the necessary grade-point average. Centennial Honor Awards are also valued at $125 per year and may be awarded for three-year periods.

Further information on LSU Honor Awards may be obtained from the Office of Student Aid and Scholarships.

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 University fee, nonresident 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 providing they make application prior to January 15 of their senior year. Interested high school students should write during the summer prior to their senior year to Air Force ROTC, Maxwell AFB, Alabama 36112, for application procedures. 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. In addition, all four-year AFROTC scholarship recipients must enroll in specific academic disciplines. (These will be identified to the student when a scholarship application is requested.)

Freshmen who are enrolled in Air Force ROTC may compete for four-year (if in five-year curriculum) or three-year scholarships. Sophomores who are in or intend to enter Air Force ROTC may apply for 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, pre-veterinary, and dietetics 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, 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 one to four years. Four-year scholarships are open, on a competitive basis, to high school seniors. Applications for four-year scholarships must be completed and returned to the appropriate headquarters prior to December 15 of the student’s senior year in high school. Applications may be obtained by writing Army ROTC Scholarship, P.O. Box 12703, Philadelphia, Pennsylvania 19134. The three-, two-, and one-year scholarships are open, on a competitive basis, to freshmen, sophomores, and juniors, respectively, who are enrolled in the Army ROTC program. Applications for these scholarships are obtained from the Professor of Military Science.

For any of the scholarships, a student incurs a four-year active duty obligation upon graduation and commissioning.

Navy ROTC Scholarships

LSU students who join the Naval ROTC program at Southern University become eligible to compete for NROTC scholarships. NROTC scholarships provide for the University fee, nonresident fee, books, laboratory fees, and $100 per month subsistence allowance. These scholarships are awarded each year in February and July. The Professor of Naval Science nominates students enrolled in the NROTC College Program based on their academic performance and aptitude for service as commissioned officers in the U.S. Navy or Marine Corps. Further information may be obtained from the Professor of Naval Science and Commanding Officer, NROTC Unit, Southern University, Baton Rouge, Louisiana 70813. Telephone (504) 771-4370.

STUDENT LOAN FUNDS

The Office of Student Aid and Scholarships administers a number of loan funds created to help deserving students who need financial assistance to continue their education. All such funds are subject to policies and regulations authorized by the Faculty Senate Student Aid and Scholarships Committee. To be eligible, a student must make satisfactory academic progress.

Most notable of these is the National Direct Student Loan Fund. Under the terms of this program, the Federal government provides 90 percent of the fund and the University provides 10 percent. Academic records are considered, and the applicant must justify need for financial assistance. Repayment terms are liberal. No repayments are necessary and no interest is charged as long as the borrower is attending school full time. After leaving the University, the student must begin repaying the loan within nine months in principal installments of no less than $30 per month and at an interest rate of 3 percent per year on the unpaid principal balance. The repayment period, depending upon the amount borrowed, might extend up to 10 years. Borrowers who teach in certain specified elementary or secondary schools where there is a high concentration of students from low-income families and borrowers who teach the handicapped may qualify for cancellation privileges. Students interested in applying for National Direct Student Loans should contact the Office of Student Aid and Scholarships for additional information.

Another loan fund is the Hiram Emergency Student Loan Fund. By means of this fund, emergency loans for necessary college expenses in amounts ranging up to $100 may be arranged on a short-term basis for full-time students who are classified as juniors or higher.

Other loan funds available at the University are as follows:

Associated Women Students Loan Fund
Delta Section-A.I.M.E. Loan Fund
Diamond Jubilee Student Loan Fund
General Graves B. Erskine Loan Fund
Ralph Hayes Memorial Loan Fund
General Hodges Loan Fund
Henry V. Howe Loan Fund
Industrial Lumber Company Loan Fund
Latin American Loan Fund
Richard B. Lewis Loan Fund
LSU Society of Foresters Loan Fund
E. A. Melhenny Loan Fund
P.I.E.A. Loan Fund
Robert Hendee Smith Loan Fund

STUDENT EMPLOYMENT

To be eligible for campus employment, a student must have been admitted by the University to register full-time at the beginning of the term in which he or she seeks employment. A student’s pay will be based on the type of work being done, previous work experience, and educational training. The minimum pay rate is at least $2.75 per hour. Most jobs require between 60 and 80 hours of work each month. Some require special skills; others demand only a willingness to learn.

Incorporated into the campus employment program is the college work-study program which is a joint effort by the federal government and the University to provide part-time jobs for students who have a great
need for financial assistance. Under the terms of this program, high school students showing academic promise whose families have relatively low annual incomes may be guaranteed student jobs before they arrive on campus. Such jobs will pay approximately $900 per academic year.

STATE ASSISTANCE

_T. H. Harris Scholarships_ valued up to $250 per year are awarded on the basis of at least a 3.00 average in high school and participation in extracurricular activities. These scholarships are available at all state-supported public colleges and universities. Correspondence should be addressed to the Executive Secretary, Scholarship Program, State Department of Education, P. O. Box 44064, 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. The State of Louisiana sponsors _guaranteed loans_ for full-time students who are Louisiana residents and who meet certain qualifications. Loans are made in amounts up to $2500 per year. To apply, a student must (1) submit an application to and be recommended by the Office of Student Aid and Scholarships, and (2) negotiate with a Louisiana bank in the student's home town area. If the bank agrees to grant the loan, the loan is guaranteed by the state. The student pays no interest and is not required to repay the loan until after leaving school. For more information, contact the Office of Student Aid and Scholarships.

OTHER STATE AND FEDERAL ASSISTANCE

Other state and federal assistance includes _Basic Educational Opportunity Grants (BEOG)_ , which are awarded directly from federal funds; _Supplemental Educational Opportunity Grants (SEOG)_ , which range from $200 to $700 a year; and _State Student Incentive Grants (SSIG)_ , which range from $200 to $700 a year. SEOG funds are intended to provide partial financial assistance to students from relatively low-income families; applicants must secure at least as much aid from other sources. SSIG grants are designed for Louisiana students; applicants must have maintained at least a 2.00 average and be registered full-time. To be considered for a BEOG, SEOG, or SSIG, a student must demonstrate need for financial assistance and must make satisfactory academic progress. Financial need is determined by an analysis of the income, assets, and other resources of the student and his or her family in relation to the educational costs of attending LSU. Satisfactory academic progress is generally defined as meeting the requirements for retention in a degree program under the scholastic regulations of the University. If a particular student meets the aforementioned requirements and regulations but the Director of Student Aid and Scholarships has reason to question the satisfactory academic progress of that student and has supportive evidence, the Director of Student Aid and Scholarships will then forward such evidence to the student’s dean who will then conduct a review of the student’s academic progress. The dean then may determine for good cause (e.g., a pattern of repeated resignations or repeated dropping down to insignificant course loads) that the student is not making satisfactory academic progress, in which case the Director of Student Aid and Scholarships may deny financial aid.

Interested students should contact the Office of Student Aid and Scholarships for application papers.

SOCIAL SECURITY BENEFITS

The federal Social Security law provides monthly benefits to students when a parent on whom they are dependent dies or begins receiving Social Security retirement or disability benefits. Social Security benefits are payable to students under 22 years of age. The Office of Student Records and Registration certifies student status to the Social Security Administration for students enrolled at LSU. Eligible students must apply to their local Social Security Office to receive these benefits.

VETERANS’ BENEFITS

The Office of Veterans’ Affairs provides counseling and information for veterans attending LSU. Representatives of the University and the Veterans’ Administration Regional Offices in New Orleans are located here to provide liaison with their respective institutions and student veterans at 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.
The information in this section may pertain to regulations of the LSU System, LSU at Baton Rouge, and/or the individual schools and colleges located on the Baton Rouge campus.

RESIDENCE STATUS

The residence status of a student 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 been domiciled in Louisiana continuously for at least one full year immediately preceding the first day of classes of the term for which resident classification is sought.

Since students normally come to LSU for the primary purpose of attending the University rather than establishing a domicile in Louisiana, those who enroll as nonresidents shall continue to be so classified throughout attendance as students, unless they demonstrate that the previous domicile has been abandoned and a Louisiana domicile established. "Domicile," as the term is used in the context of residence regulations, is defined as an individual’s true, fixed, and permanent home and place of habitation, at which the individual remains when not called elsewhere for labor, studies, or other special or temporary purposes, and the place to which the individual returns after an absence. Factors considered in establishing residence classification include the residence of a student's parents; parents’ tax returns, and other financial information, particularly when emancipation is claimed; former domicile in Louisiana; location of the source of the student’s income; and the state in which the student is registered to vote. A foreign student on a student visa is classified as a nonresident.

Residence status is not determined for students auditing only or for students enrolled in extramural or correspondence courses of the Division of Continuing Education.

Further information concerning residence classification may be obtained from the Office of Admissions.

REGISTRATION

Students will be permitted to attend class only when the instructor has received from the Office of Student Records and Registration evidence of proper registration.

Registration after the final date indicated in the "Calendar" is allowed only by special permission of the student’s dean. Students may add courses for credit, make section changes, or drop courses with approval of the appropriate dean within the periods specified in the "Calendar."
Graduate Registration of LSU Seniors

Regulations pertaining to LSU seniors who wish to register for graduate credit are given in the section entitled, "Graduate Credit for LSU Seniors," page 204.

Registration of Nonacademic LSU Employees

With approval of the department head and the dean, a full-time nonacademic employee may enroll in classes not involving 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 courses which will require an absence from work of more than three hours during the week will be required to charge the excess over three hours to compensatory time or annual leave, where available, or to leave without pay. Educational leave is not granted to part-time nonacademic employees.

IDENTIFICATION CARDS

As part of the registration procedure, students are issued identification cards which they must present in order to procure services and privileges available to students and to identify themselves to University officers as necessary. Persons who cannot or will not produce a student identification card are not recognized as students and are not entitled to student services. Identification cards issued in the fall are validated for students who register for the following spring semester and summer term.

ADVANCED-STANDING PROGRAM

The advanced-standing program is open to students with superior ability who have acquired excellent preparation in high school or on their own initiative. It recognizes superior attainment and permits students to demonstrate academic competence through examinations. Students who earn acceptable scores on these examinations are allowed placement at a higher level and credit in courses by-passed. Students may qualify for advanced-standing credit in the ways listed below.

1. LSU Departmentally Administered Examinations (considered equivalent to final examinations): Ordinarily, to initiate examinations students must obtain permission from their academic dean and from the head of the department offering the course. Students may apply for these tests at any time after they have been admitted to the University.* Tests will be given subject to the following conditions:
   a. The student must have been admitted to the University* and must be in good standing. If the examinations are taken while the student is not enrolled in the University,* credit will be granted after registration for residence study.
   b. To initiate the examination, permission must be obtained from the appropriate dean and the head of the department offering the course. After such permission is granted, the Office of Student Records and Registration will issue an official permit. No instructor may give an advanced-standing examination until the official permit has been received.
   c. 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 record. 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 an advanced-standing examination in a particular course only once.
   d. Students are not permitted to schedule advanced-standing examinations in courses which have been audited or in which unsatisfactory grades have been earned.
   e. Credit earned through advanced-standing examinations will not be used in computing the student's grade-point average.
   f. At LSU, advanced-standing examinations are given free of charge to students (1) planning to enroll as freshmen, or (2) enrolled either part-time or full-time as first-year students until the beginning of the midsemester examination period of their first regular semester. All other students must pay a fee of $10 per course.

2. The American College Test: scores earned on this test are used as a basis for allowing credit in freshman English.

*Includes all campuses of the LSU System.
4. The Advanced Placement Examination of the College Entrance Examination Board: advanced placement and credit will be granted in appropriate subjects to freshmen who earn a grade of 4 or 5 on the advanced-placement examination; when the grade is 3, the decision regarding credit will be referred to the individual department.

4. Subject Examinations of the College Level Examination Program of the College Entrance Examination Board: policies governing the acceptance of credit and required scores are established by appropriate departments of the University.

Credit by examination is limited to 30 semester hours. This credit cannot be used to reduce the minimum residence requirement for graduation.

AUDITORS

Students may be admitted to classes as auditors by obtaining written consent of the instructor of the course and the dean of the college offering the course. Auditors will not receive credit for courses audited, nor will they be permitted to take advanced-standing examinations on such work. However, courses previously audited may be later taken for credit. See page 41 for a listing of fees for auditing courses.

Students who wish to change their registration from credit status to audit status must formally drop courses in which they are registered for credit and accept whatever grades are appropriate at the time of the drop.

INTERINSTITUTIONAL PROGRAM WITH SOUTHERN UNIVERSITY

With appropriate approval, LSU students may take courses each semester at Southern University in Baton Rouge. Additional enrollment fees may be required for part-time students.

Details and additional information may be obtained from the LSU Office of Student Records and Registration.

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. Failure to submit transcripts will subject students 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 college concerned.

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 by the dean of their college.

ADDING OR DROPPING COURSES

A course may be added or dropped only in accordance with the dates indicated in the "Calendar," page 4. The student will initiate the action by means of an appropriate form obtained from the office of the dean. This form must be signed by the student's adviser or major professor. If a course is dropped at a time when a grade is required, the instructor will indicate the grade earned to that point** and sign the slip. The completed form must be returned to the Office of Student Records and Registration by the student.

RESIGNATION FROM THE UNIVERSITY

A student may resign from the University at his or her option until the "final date for resigning" shown in the "Calendar" (page 4). Resignation is accomplished by obtaining a resignation form from the student's

*Includes all campuses of the LSU System.

**See item 2, "Grading Systems, Undergraduate Grades," page 60.
dean’s office and by filing the form with the Office of Student Records and Registration within 10 days after it has been endorsed by the administrative offices indicated on the form. Resignation is not accomplished until the form is deposited with the Office of Student Records and Registration. Students who resign after the first few weeks of the semester will receive withdrawal grades (see item 2, page 60).

Students who absent themselves from the University without leave and without resignation will not be assigned withdrawal grades and, at the end of the semester, will normally 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 resign or are dropped.

YEAR CLASSIFICATION OF STUDENTS

Year classification of undergraduate students is based on the number of credits earned as follows:

FRESHMAN—Student having fewer than 30 semester hours of credit.

SOPHOMORE—Student having at least 30 semester hours of credit.

JUNIOR—Student having at least 60 semester hours of credit.

SENIOR—Student having at least 92 semester hours of credit. A student in a five-year curriculum achieves senior classification when 136 semester hours have been earned.

See page 223 for regulations concerning the level of courses students may take, based on the above classifications.

Students enrolled in Junior Division are further classified as JD-1, JD-2, or JD-3, depending upon the number of semester hours of credit earned. (See ‘‘Classification of JD Students,’’ page 191.)

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

Full-Time Student

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

2. GRADUATE—must enroll in the Graduate School or Graduate Division of Education for nine or more semester hours 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-time load.

3. SOCIAL WELFARE—must enroll in the School of Social Welfare for nine or more hours of resident credit.

Full-time students have available to them several benefits and privileges. Among these are use of the Student Health Service; admission to athletic events on presentation of 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.

To receive benefits available only to full-time students, seniors may choose to be classified as full-time in the semester or summer term in which they are scheduled to graduate, even though they carry less than the number of hours required for full-time status. In no case can this option be exercised to exempt students from minimal residence requirements established by individual schools and colleges.

Part-Time Student

Undergraduate students are classified as part-time if they schedule or drop to fewer than 12 hours of coursework in a semester or six hours in a summer term. Criteria for part-time status in the Graduate School and School of Social Welfare are available from the offices of the respective deans.

ATTENDANCE

1. Students are expected to attend all classes regularly and punctually.

2. Students registered in a senior college may, at the discretion of their dean, be placed on attendance probation.

*Includes all campuses of the LSU System.
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 concerned.

5. Absences due to authorized trips* away from the campus or to special duties at the University will be excused. Sponsors in charge of these trips will present a list of students involved to the students’ dean for approval.

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.

**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 upon the recommendation of the instructor involved and with the approval of the dean of the student’s college.

**GRADING SYSTEMS**

At the beginning of each semester, faculty members are expected to announce to their classes the basis on which the final grade will be determined. On request, faculty members 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 termination of a course. Faculty members who leave the campus during this period should file such material in the office of their department.

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.” When a student elects to withdraw from the course during that period in which “WA,” “WB,” “WC,” “WD,” or “WF” are to be assigned, the letter following “W” shall be the grade earned on that portion of the course due prior to the time the grade is awarded, as determined by the instructor. The instructor’s assignment of a grade is final, and 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 chairman shall assign the grade. In such cases, the chairman may elect to award the grade of “P” (or “WP”) for work of at least “C” quality. This “P” grade would not be part of the student’s regular allotment of pass-fail grades.

**Undergraduate Grades**

1. Grades of “A,” “B,” and “C” are given 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 carry degree credit. A grade of “F” is failing. A grade of “P” (passing) denotes satisfactory completion (grade of “C” or better) of advanced-standing examinations, pass-fail option courses, and certain other courses.

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*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.
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 as follows: “A” = 4 quality points; “B” = 3 quality points; “C” = 2 quality points; “D” = 1 quality point; “F” and “WF” grades carry no quality points. Grades of “P,” “W,” “WA,” “WB,” “WC,” and “WD” are not used in computing the official grade-point average and, therefore, do not carry quality points. Grades of “WA,” “WB,” “WC,” “WD,” and “WF” are assigned when students resign or drop courses between specified dates, as indicated in the “Calendar.” These grades determine students’ academic status in accordance with scholastic requirements.* A grade of “WF” is considered the same as a grade of “F.”

2. A “W” will be entered on a student’s record for any course dropped after the second (first, in summer term) but not later than the sixth week (third week in summer term) after the date of the beginning of classes for the semester. From that date until three weeks (10 days in summer term) before the last day of classes, a grade of “WA,” “WB,” “WC,” “WD,” or “WF” will be assigned in any course dropped. Thereafter, students may not drop courses unless authorized to do so by their dean. This regulation applies to all courses dropped, including any dropped when students resign from the University.

When a discriminating grade of “WA,” “WB,” “WC,” “WD,” or “WF” cannot be assigned properly because the student has not had an opportunity to demonstrate achievement in the course (e.g., because no examinations have been offered), the instructor may award a “W.” In this case, the instructor should write a memorandum justifying the “W” grade to the student’s dean. If the dean approves the grade, an approved copy of the memorandum will be submitted to the Office of Student Records and Registration with the grade report.

3. Work which is of passing quality but which, because of circumstances beyond students’ control, is incomplete, may be marked “I” (incomplete). For undergraduates, an “I” grade is given 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 is not to be given. It is the responsibility of the student to initiate the request for the authorization.

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 given.

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 noted in the “Calendar.”

4. Grades earned in courses offered by the Law Center, the School of Medicine, the School of Dentistry, the School of Social Welfare, and the School of Veterinary Medicine shall not be considered in the computation of the grade-point average of an undergraduate student unless approval is given by the dean or director of the undergraduate 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 based on the guidelines given below. In all undergraduate 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 graded pass-fail during a given semester and still elect to take a course under the pass-fail option program.

At the time of registration under the pass-fail option, students must obtain the necessary approval signatures on three petition cards (available from the office of the dean of their college). 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 and to grade-point average.

**PASS-FAIL OPTION PROGRAM FOR HEALTH, PHYSICAL, AND RECREATION ACTIVITY COURSES**

The following policies exist for HP&RE courses numbered from 1100 through 1346.

1. Students are allowed to register for a pass-fail grade regardless of grade-point average, other courses being taken on a pass-fail basis, and total number of courses taken on a pass-fail basis.

*Includes all campuses of the LSU System.
2. Only the approval signature of the instructor of the course is required on the petition.
3. The petition must be completed up to and including the last day for adding courses.

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, with enrollment not to exceed one course per semester, excluding those courses normally graded pass-fail.
4. Enrollment under the pass-fail option must have the prior approval of the instructor, the head of the student’s major department, and all deans or directors concerned.
5. Until and including the last day for adding courses for credit, students may, with appropriate approval, change from pass-fail to graded status and vice versa. No such change may be made after the last day for adding courses for credit.

Graduate Grading System

Grades in the Graduate School have the following meanings.

“A” . . . (4 quality points per semester hour); indicates superior work and should be construed as an invitation for continued work in a subject.

“B” . . . (3 quality points per semester hour); indicates acceptable but undistinguished work and should be construed as an invitation not to try for doctoral work in a subject.

“C” . . . (2 quality points per semester hour); indicates work of unsatisfactory quality. In some departments, a course with a “C” grade may be accepted toward a degree, but, strictly speaking, this grade represents work below the standard expected of graduate students and should be construed as a warning that further work in the subject may be unwise.

“D” . . . (1 quality point per semester hour); indicates clearly unacceptable work and carries no graduate credit.

“F” . . . (no quality point value); indicates grossly unsatisfactory work.

“IP” . . . indicates that satisfactory work has been done in the course, but, because of circumstances beyond the student’s control, all requirements have not been met. It is not to be given to enable a student to do additional work to bring up a deficient grade. An “IP” is valid for 45 calendar days after the last day for turning in grades. Before the expiration of the 45-day period, the student must either receive a standard grade or—by means of a petition stating the reason for the request and the length of time needed, and bearing the endorsement of the faculty member concerned—obtain approval from the dean of the Graduate School for an extension of time. If neither of these things is done, the “IP” grade will be changed to an “F” at the end of the 45-day period, as it will if no grade is turned in within the extension period.

“WF” . . . indicates a course has been dropped between the dates specified in the “Graduate Calendar.” A “WF” is treated the same as a grade of “F” in computing grade-point averages; other “WF” grades are not used in computing averages.

“S” (satisfactory) and “U” (unsatisfactory) grades are given for thesis (8000) or dissertation (9000) research courses. When the thesis or dissertation is completed, the final grade, which is “A” to “F” in most departments and “P” or “F” in a few departments, will be recorded adjacent to the thesis or dissertation title on the student’s transcript.

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. 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 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.

**DEGREE OF PRECISION IN GRADE-POINT AVERAGES**

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 such is available. If the third figure after the decimal point is a five (5), upward rounding shall occur. In the consideration of 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 REPORTS**

To apprise students of their academic status, reports of grades earned are sent at the end of each semester and summer term to their home address. Midsemester grades are available through offices of academic deans and directors.

**DEAN’S LIST**

Each semester an honor list is compiled of full-time undergraduate students whose semester grade-point averages are at least 3.50.

**STUDENT ACADEMIC APPEALS**

Appeals of final grades must be initiated by the student within 30 days after the beginning of the next regular semester or summer term. The following procedure is to be followed:

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 adviser present, under most circumstances the meeting will be more productive if only the student and the faculty member are present. If an administrative officer (department head, dean, or 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 with the department head and the faculty member. 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 the 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 adviser. 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, plus the student’s dean, of his or her decision in writing. If the decision reached requires change

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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 chairman and/or dean may request documentation of the facts of the matter before approving the grade 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 course is offered. The dean’s name will be furnished by the department head. The student’s appeal must be in writing 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. 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:

(1) 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.

(2) He or she may meet with all parties concerned, who may be accompanied by advisers if desired, and, after discussion, reach a decision.

(3) 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 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 adviser. 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, plus 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, plus 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 may ask other parties to the appeal to make written reply to the request for a review or these parties, on their own, may make a written reply. If the decision is reached that a review is not justified, the student and all other parties, plus 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 will hold a formal meeting with all parties and their advisers, if desired, and reach a decision based on discussions at this meeting, as well as on all written materials furnished him. Once a decision is reached, the Vice-Chancellor for Academic Affairs will notify all parties, plus the student’s dean, of his 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.

SENIOR COLLEGE SCHOLASTIC REQUIREMENTS

The following provisions are applicable to all students in senior colleges. For scholastic requirements of Junior Division, see page 193.

*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 chairman and/or dean may request documentation of the facts of the matter before approving the grade change.
1. Students who have a cumulative average of 2.00 or higher (on all college work attempted and on all work attempted in the LSU System) are considered to be in good academic standing.

2. 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.

3. 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.

4. Students who have 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, they may be placed on probation for one additional semester at the discretion of their dean in lieu of being dropped from the University.*

5. 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.

6. 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.

7. 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.

8. 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.

9. The policy regarding grades for students who resign or drop courses is included in the "W" grade regulation, item 2, page 60. These grades will be used to determine the student's academic status according to items 1-5 above. A student may be permitted to resign without receiving grades if withdrawal is caused by illness or other extenuating circumstances, as determined by the dean.

10. Grades of "WA," "WB," "WC," or "WD" are recorded by the Office of Student Records and Registration. These grades do not change cumulative credit and quality-point totals; however, they do determine students' academic status in accordance with scholastic requirements. A grade of "WF" is recorded and has the effect of an "F" on the student's permanent record.

Students may be dropped from any course in which they are failing, at the discretion of the dean of their college, provided such action does not reduce their academic load below 12 semester hours.

CREDIT FOR REPEATED COURSES

When students are permitted to repeat for credit a course previously taken in the LSU System, the last grade and credits earned determine acceptability of the course for degree credit.

Students who receive an "F" or "WF" in a course must repeat the course in the LSU System in order to receive credit for it. With the concurrence of the head of the department in which the course is offered, a dean may make exceptions in individual cases.

A student who has earned a "C" or better in a course may not repeat that course unless (1) the catalog description indicates that the course may be repeated for credit, or (2) the student's dean and the Vice-Chancellor for Academic Affairs approve the repetition for some special reason. No student may register concurrently for more than one section of a course except with the approval of the department chairman in instances where the different sections cover substantially different material.

*Includes all campuses of the LSU System.
CORRESPONDENCE AND EXTENSION STUDY

Up to 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 may be found in each college or school’s section of this catalog. Before scheduling correspondence or extension courses, students should obtain approval of the dean of their college.

MAXIMUM WORK FOR UNDERGRADUATES

Each college establishes the number of semester hours of 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.

UNIVERSITY BACCALAUREATE DEGREE REQUIREMENTS

Students must meet the curricular requirements for a degree outlined in one issue of the LSU General Catalog. Students are responsible for knowing degree requirements. They may elect any issue of the LSU catalog in force during their residence at this or any other accredited institution of higher learning, provided their residence is continuous. Students whose enrollment here or elsewhere is interrupted (either voluntarily or by compulsion) for at least two consecutive regular semesters may not elect a catalog issued earlier than the one in force at the time of re-entry. The act of transferring from one institution to another is not regarded in itself as an interruption of enrollment; the interval between enrollments is the controlling factor. Students changing from one curriculum to another may not elect to follow a catalog in force earlier than the date on which the student’s change was made. Under no circumstances may a catalog more than 10 years old be used.

Where programs include curricular requirements set by external agencies, e.g., accrediting associations, changes in such requirements may be made without prior notice, and students may be required to conform to such changes when they become effective. Should the University find it necessary to discontinue an academic program, every reasonable effort will be made to enable students already admitted to the program to complete degree requirements on schedule.

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 the 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 the University*, and meet the residence requirements of their college.
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 have credit in English 1002 or an acceptable equivalent as provided in this catalog.
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 proper college, school, or division of the University.*

*Includes all campuses of the LSU System.
Procedural Requirements for Obtaining a Diploma

1. Prior to the semester in which graduation is anticipated, candidates must have 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 should be presented to the Office of Student Records and Registration for checking by that office. At this time, candidates must apply for a degree and state their exact name as it is to appear on the diploma and in the commencement program.

2. At the last registration, candidates must pay the diploma fee. Students who have previously paid a diploma fee, but who did not graduate at the expected time, must pay a $10 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 dean.

REQUIREMENTS FOR A SECOND BACCALAUREATE DEGREE

Persons holding a baccalaureate degree who wish to obtain a second baccalaureate degree from the University must meet all academic and residence requirements set by the college concerned and must earn a minimum of 30 semester hours beyond the work offered for the degree requiring the lesser number of hours. See “Requirements for a Second Bachelor’s Degree” in each college’s section.

DEGREES WITH 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 but less than 3.89, and cum laude if the grade-point average is at least 3.70 but less than 3.79. 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 in Baton Rouge. Two grade-point averages will be computed for each student on (1) all work completed and (2) all work completed on the Baton Rouge campus. The lower of the averages will be used in determining 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 in Baton Rouge. Grade-point averages will be computed for (1) all work completed and (2) all work completed on the Baton Rouge campus, 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 pre-professional credits in an undergraduate college of the University* with a grade-point average as indicated for honors are eligible to receive their degrees with honors if the students are in the upper 10 percent of the first-year classes in the LSU School of Dentistry, School of Medicine, or School of Social Welfare and are recommended by the dean of the appropriate professional school.

TRANSCRIPT OF RECORD

Students may obtain a transcript of the work they have completed, provided they are current in their financial obligations to the University.* A fee of $2 will be charged for each copy. Normally, two days of processing are required after the transcript request is received. At the beginning or end of a semester, more time is required. Transcripts will not be prepared during the final examination period for students who desire the current semester’s grades to appear on the transcript.

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

*Includes all campuses of the LSU System.
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 and 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* for the Baton Rouge campus. Students charged with violations of conduct listed in the *Code of Student Conduct* are provided 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 document 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 and the Office of the Vice-Chancellor for Student Affairs.

**PRIVACY OF STUDENT RECORDS**

LSU insures 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 their 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 Health, Education, and Welfare, 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 fields of study and classification; class schedule; social security number (released only to the faculty, for purposes of posting grades); cumulative grade-point averages (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; the most recent previous educational institution attended by the student.

Students who wish to withhold any information in these categories should write to the Director of Academic Services within 10 days after the last day of registration in any term, indicating which items should not be considered directory information in their instances. 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.
The Vice-Chancellor for Student Affairs is the chief student personnel officer on this campus and is responsible to the Chancellor for the development and administration of policies relating to student activities and services.

Housing

Campus housing facilities consist of residence halls for men, residence halls for women, fraternity houses, sorority houses, and University-owned apartments. Fraternities and sororities are required to have University-approved house mothers.

A differential housing program has been instituted to provide students living on campus with the opportunity to choose from a number of housing options, each with different living conditions. In some options, all rules governing living conditions are established by the University; in others, living conditions are voted on by residents within limits established by the University.

All single, full-time, undergraduate students with less than 21 semester hours of credit are required to live in University dormitories with the following exceptions:
1. students who reside in the home of parents or other close relatives who are married and have established a residence;
2. students who are eligible to live in a fraternity or sorority house and who choose to do so;
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 graduation from high school;
4. students who have severe financial problems which cannot be solved through the University’s student-aid program of scholarships, loans, and employment.

No exceptions beyond those listed above will be made in the University’s requirement that single, full-time, undergraduate students with less than 21 semester hours of credit must live in dormitories; however, in individual situations in which it is the considered judgment of University officials that the interest of the University and/or welfare of the student would be best served by not requiring the student to live in a University dormitory, administrative exception to this requirement may be made.

A student with less than 21 semester hours of credit who wishes to be released from living in a University dormitory must supply written documentation to a special committee that he or she is eligible for release, based on one or more of the specific exceptions listed above. Inquiries should be addressed to the Dean of Students.
Full-time students with 21 or more semester hours of credit may voluntarily choose to live in University dormitories as long as space is available. Dormitory housing is not available to part-time students.

Application for Dormitory Accommodations

Applications to live in a dormitory are submitted to the Director of Housing. A form for requesting a dormitory application is included with the application for admission to the University supplied by the Office of Admissions. Acceptance of a dormitory application or assignment to a dormitory is not a commitment of admission to the University. Application for admission to the University must be submitted to and approved by the Office of Admissions before a room assignment becomes valid.

Applications for a dormitory for the fall semester (or for a summer term and fall semester) must be accompanied by a reservation fee of $75 payable to LSU by check or money order, of which $25 is retained as a breakage deposit and $50 is applied to rent for the fall semester. A $25 deposit only is required for the spring semester or for a summer term only. Dormitory applications cancelled prior to July 1 for the fall semester result in a refund of the $75 reservation fee. Applications for the spring semester must be cancelled by December 1 for a refund of the deposit. Those for summer term only must be cancelled by May 1 for a refund of the deposit; a summer short course must be cancelled one week prior to its opening. If application is made for the summer term and the fall semester together and the summer reservation is cancelled after May 1, the $25 deposit will be forfeited and an additional $25 must be paid in order to have a $75 deposit for the fall semester. Acceptance of a reservation fee or deposit does not guarantee an assignment in a dormitory.

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. A dormitory room may not be occupied earlier than one day before the student is required to come to the campus. 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 by the Office of Housing. Other terms of dormitory 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.

Dormitory Accommodations

Student living quarters are provided for approximately 3700 men and 3700 women in both airconditioned and non-airconditioned dormitories at rates ranging from $221 to $464 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 ranging from 1.17 to 2.5 times the semester rate, based on the capacity of the room and the number of occupants, or to move to another room at the same rental charge in the same dormitory. Students occupying rooms filled over normal capacity will have a refund made ranging from 0.50 to 0.75 times the normal capacity rate, depending on the type of accommodation. A limited number of 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.

Dormitory room rent is payable at registration. Further information concerning dormitory accommodations may be obtained from the Director of Housing, 149 Graham Hall.

University-Owned Apartments

Housing facilities for married students and students with minor children consist of 578 unfurnished two- and three-bedroom apartments. Rental rates vary from $114 to $180 per month. Information on this type of housing is available from the Director of Housing, 149 Graham Hall.

REFUND OF ROOM RENT

Students contract for space in a dormitory 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 following guidelines:
1. A student who moves from one space to another in a dormitory or from dormitory to dormitory will be refunded the difference between the unused portions of rent for the spaces or charged the difference when moving to more expensive housing.

2. Moving out of a dormitory without resigning from the University will result in the forfeiture of dormitory rent in an amount equal to the unexpended portion of the least expensive dormitory space being occupied by students that semester or summer term.

3. A student who is required to move out of a dormitory for the convenience of the University will receive a refund of the unexpended portion of the rent for the dormitory space he or she was occupying.

4. A student who is required to move out of a dormitory prior to the final date for resigning from the University as a result of a disciplinary sanction will forfeit rent as provided in item 2 above.

5. A student who moves out of the dormitory or who is removed from the dormitory as a disciplinary action after the final date for resigning from the University will receive no refund.

6. If a student resigns from the University with no mitigating circumstances, the refund is 75 percent of the unexpended portion of the rent.

**BOARD PLAN**

With the exception of students who have been employed full-time, including military service, for 18 months prior to enrolling in the University and after graduation from high school, all undergraduate dormitory residents with less than 21 semester hours must participate in the University’s board plan. All other students are eligible to participate in the board plan on a voluntary basis.

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 (lunch and dinner, or any two of the three daily meals on a committed basis). The cost of the 15-meal plan is approximately $328 per semester; the 10-meal plan costs approximately $312. The cost of the 15-meal plan during the summer term is approximately $176; the 10-meal plan costs approximately $168. Board plan rates are subject to change at the beginning of a semester or summer term.

A therapeutic diet service is available for students requiring special diets.

**Board Plan Refunds**

All students who sign up for the board plan at registration will be required to participate for 10 class days. At the end of the 10 days, students qualifying for board plan refunds will be released, and the 10 days of participation will be deducted from any refund. An assessment of three days’ board will be made if notice is not provided the cafeteria management prior to the end of the first 10 class days of the semester.

**STUDENT HEALTH SERVICE**

The Student Health Service is staffed and equipped for treating illnesses and minor accidents that may occur while students are in residence at the University. Facilities consist of an out-patient medical clinic, a mental health clinic, a pharmacy, a laboratory, and an x-ray department. Medical care is available for most conditions likely to affect students. In addition, students may consult with Health Service physicians regarding special diets that are available in one of the residence dining halls. Students with serious conditions will be put under the care of a local physician and transferred to a Baton Rouge hospital; in such cases, parents or guardians will be notified immediately.

Charges are made for medicines and for x-ray and laboratory work done at the Health Service. Medical expenses incurred outside the Health Service must be paid by the student.

All facilities are closed on Saturday afternoons, Sundays, and most student holidays.

**STUDENT COMMUNICATIONS MEDIA**

The Daily Reveille, the University’s student-edited newspaper, is published Tuesday through Friday during the fall and spring semesters and semiweekly as The Summer Reveille during summer term. The Gumbo, the yearbook, is edited by students and published annually. WPRG is an fm radio station operated by students.
STUDENT ORGANIZATIONS

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

Social Organizations for Men Students

<table>
<thead>
<tr>
<th>Acacia</th>
<th>Alpha Gamma Rho</th>
<th>Kappa Alpha</th>
<th>Pi Kappa Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alpha Phi Alpha</td>
<td>Alpha Tau Omega</td>
<td>Kappa Sigma</td>
<td>Sigma Alpha Epsilon</td>
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<tr>
<td>Delta Kappa Epsilon</td>
<td>Delta Tau Delta</td>
<td>Lambda Chi Alpha</td>
<td>Sigma Chi</td>
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<td>Delta Upsilon</td>
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<td>Omega Psi Phi</td>
<td>Sigma Nu</td>
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<td>Phi Beta Sigma</td>
<td>Tau Kappa Epsilon</td>
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<td>Phi Delta Theta</td>
<td>Theta Xi</td>
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<td>Phi Gamma Delta</td>
<td>Zeta Beta Tau</td>
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<td>Phi Kappa Theta</td>
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Social Organizations for Women Students

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<thead>
<tr>
<th>Alpha Delta Pi</th>
<th>Alpha Epsilon Phi</th>
<th>Alpha Xi Delta</th>
<th>Kappa Delta</th>
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</thead>
<tbody>
<tr>
<td>Alpha Gamma Delta</td>
<td>Alpha Gamma Delta</td>
<td>Chi Omega</td>
<td>Kappa Kappa Gamma</td>
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<tr>
<td>Alpha Kappa Alpha</td>
<td>Alpha Omicron Pi</td>
<td>Delta Delta Delta</td>
<td>Phi Mu</td>
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<td>Alpha Phi</td>
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<td>Delta Gamma</td>
<td>Pi Beta Phi</td>
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<td>Delta Sigma Theta</td>
<td>Zeta Phi Beta</td>
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<td>Delta Zeta</td>
<td>Zeta Tau Alpha</td>
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<td></td>
<td>Kappa Alpha Theta</td>
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Religious Groups

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<thead>
<tr>
<th>Assembly of God</th>
<th>Bahai' Club</th>
<th>Baptist Student Union</th>
<th>Intervarsity Christian Fellowship</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Campus Crusade for Christ</td>
<td>Jehovah’s Witnesses</td>
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<td>Catholic Student Center</td>
<td>Lutheran University Chapel</td>
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<td>The Chapel</td>
<td>Muslim Student Association</td>
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<td>Christian Church</td>
<td>The Navigators</td>
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<td>Christian Science Organization</td>
<td>United Pentecostal Church</td>
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<td></td>
<td>Church of Christ</td>
<td>University Methodist Church</td>
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<td>Church of God</td>
<td>University Presbyterian Church</td>
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<td>Church of Jesus Christ</td>
<td>Uniting Campus Ministry</td>
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<td></td>
<td></td>
<td>of Latter Day Saints</td>
<td>(Methodist and Presbyterian)</td>
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<td>Episcopal University Center (St. Alban’s Chapel)</td>
<td>The Way International</td>
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<td>Hillel Foundation (Jewish)</td>
<td>Young Life</td>
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</tbody>
</table>

Professional, Honorary, and Miscellaneous Organizations

<table>
<thead>
<tr>
<th>A Cappella Choir</th>
<th>Accounting Society</th>
<th>Agricultural Economics Association of Louisiana</th>
<th>American Society of Civil Engineers</th>
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<tr>
<td></td>
<td></td>
<td>Agricultural Mechanization Club</td>
<td>American Society for Horticultural Science</td>
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<td>Agricultural Students Association</td>
<td>American Society of Landscape Architects</td>
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<td>Alpha Beta Alpha (library science)</td>
<td>American Society of Mechanical Engineers'</td>
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<td>Alpha Chi Sigma (chemistry)</td>
<td>American Veterinary Medicine Association</td>
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<td>Alpha Epsilon Delta (pre-medical, honorary)</td>
<td>Angel Flight</td>
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<td>Alpha Lambda Delta (freshmen, honorary)</td>
<td>Anthropology Club</td>
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<td></td>
<td>Alpha Phi Omega (service)</td>
<td>(LSU) Arab Student Association</td>
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<td></td>
<td>Alpha Sigma Lambda (honorary)</td>
<td>Army Bengal Raiders</td>
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<td>Alpha Tau Alpha (agricultural education, honorary)</td>
<td>Arnold Air Society</td>
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<td>Alpha Zeta (agriculture, honorary)</td>
<td>Art Students Association</td>
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<td>(LSU) Amateur Radio Club</td>
<td>Asian Studies Society</td>
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<td>American Advertising Federation Collegiate Chapter</td>
<td>Associated General Contractors of America</td>
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<td>American Chemical Society</td>
<td>Association for Childhood Education</td>
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<td>American Home Economics Association</td>
<td>Association of Computing Machinery</td>
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<td>American Institute of Aeronautics and Astronautics</td>
<td>Association of the United States Army</td>
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<td>American Institute of Architects</td>
<td>Band</td>
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<td>American Institute of Chemical Engineers</td>
<td>Baton Rouge Area Library Club</td>
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<td>American Institute of Industrial Engineers</td>
<td>Bengal Bowlmen of LSU (archery)</td>
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<td>American Society of Interior Designers</td>
<td>Beta Alpha Psi (accounting)</td>
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<td>American Institute of Mining, Metallurgical, and Petroleum Engineers</td>
<td>Beta Chi (biochemistry)</td>
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<td>American Marketing Association</td>
<td>Beta Gamma Sigma (business administration, honorary)</td>
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<td>American Nuclear Society</td>
<td>Beta Phi Mu (library science, honorary)</td>
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<td>American Society of Agricultural Engineers</td>
<td>(LSU) Block and Bridge Club</td>
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<td>American Society of Agronomy</td>
<td>(LSU) Campus Scouts</td>
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<td>Ceramic Art Students Association</td>
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<td>Chamber Music</td>
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<td>Chi Epsilon (civil engineering)</td>
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</tbody>
</table>
Chinese Students Organization
Circle K Club
Collegiate 4-H Club
(LSU) Common Cause (service)
CONCERN (Council on Conservation of the Environment)
Conflict Simulations Society
(LSU) Dairy Science Club
(LSU) Dance Theatre
Delta Phi Alpha (German)
Delta Psi Kappa (physical education, honorary)
Delta Sigma Pi (business administration)
Engineering Acoustic Research Society
(LSU) Entomology Club
Epsilon Pi Tau (industrial education, honorary)
Eta Kappa Nu (electrical engineering, honorary)
Fellowship of Christian Athletes
(LSU) Fencing Club
Flying Tigers of the National Intercollegiate Flying Association
Food Science Club
Future Farmers of America
Gamma Iota Sigma (insurance)
Gamma Sigma Delta (agriculture, honorary)
German Club
Graduate Library Science Association
(LSU) Hapkido Tackwondo Club
(LSU) Horticulture Club
Indian Student Association
Industrial and Technical Education Club
Institute of Electrical and Electronic Engineers
International Association of Students in Economics and Business Management
(LSU) International Law Society
Iota Sigma Pi (chemistry)
Iranian Students Association
Kappa Delta Epsilon (education)
Kappa Delta Pi (education, honorary)
Kappa Kappa Psi (band)
Kappa Phi Kappa (education)
(LSU) Karate Club
(LSU) Lacrosse Club
Lambda Sigma Upsilon chapter of Lambda Alpha Epsilon (law enforcement, honorary)
Lambda Tau (medical laboratory technology)
Latin American Studies Organization
Linguistics Circle of LSU
Malaysian Students Association
Master of Business Administration Association
Mortar Board (leadership)
Mu Kappa Tau (marketing, honorary)
Mu Sigma Rho (arts and sciences, education, music, and economics majors in the College of Business Administration)
Music Educators National Conference
National Collegiate Association for Secretaries
National Organization for the Reform of Marijuana Laws
National Student Speech and Hearing Association
Nicaraguan Student Association
Omicron Delta Kappa (leadership)
Omicron Delta Epsilon (economics)
Omicron Nu (home economics, honorary)
Opera Chorus
Orchestra
Pershing Rifles (Co. D-6)
Phi Delta Theta (history, honorary)
Phi Beta Kappa (liberal arts, honorary)
Phi Chi Theta (business administration)
Phi Delta Kappa (education)
Phi Eta Sigma (freshmen, honorary)
Phi Kappa Phi (all fields, honorary)
Phi Lambda Pi
Phi Lambda Upsilon (chemistry, chemical engineering)
Phi Mu Alpha Sinfonia (music)
Phi Sigma Iota (foreign languages, honorary)
Phi Upsilon Omicron (home economics, honorary)
Phi Zeta (veterinary medicine, honorary)
Pi Epsilon Tau (petroleum engineering)
Pi Kappa Lambda (music)
Pi Mu Epsilon (mathematics, honorary)
Pi Sigma Alpha (political science)
Pi Sigma Epsilon (marketing)
Pi Tau Pi (business administration)
Pi Tau Sigma (mechanical engineering, honorary)
Plant Sciences Graduate Student Association
Political Science Graduate Student Association
Poultry Science Club
(LSU) Pre-Veterinary Club
Progressive Students’ Alliance
Psi Chi (psychology, honorary)
Psychology Club
(LSU) Rugby Football Club
Scabbard and Blade (military science)
Scotch Guard (auxiliary ROTC)
Sigma Alpha Iota (music)
Sigma Delta Chi (journalism)
Sigma Delta Pi (Spanish)
Sigma Gamma Epsilon (geology, honorary)
Sigma Lambda Chi (construction, honorary)
Sigma Pi Sigma (physics, honorary)
Sigma Xi (professional)
Soccer Club
Society of American Military Engineers
Society of American Foresters
Society of Engineering Technicians
Society of Physics Students
Student Louisiana Teachers’ Association
Student International Mediation Society
(LSU) Students for Gay Awareness
Students for Life
Students for Responsible Expression
Tau Beta Pi (engineering, honorary)
Tau Beta Sigma (band)
Tau Kappa Alpha (forensics)
Tau Sigma Delta (architecture, landscape architecture, allied arts of design)
Theta Alpha Phi (dramatics)
University Chorus
University Political Association
Venezuelan Student Association
(LSU) Veterans’ Association
(LSU) Water Ski Club
Weightlifting Club
(LSU) Wildlife Club
Women in Communication
Women’s Recreational Association
(LSU) Women’s Rugby Club
(LSU) Women’s Swim Team
Xi Sigma Pi (forestry, honorary)
Young Americans for Freedom

STUDENT GOVERNMENT:
Residence Hall Association
Student Government Association

INTERNATIONAL STUDENT OFFICE

The International Student Office, located on Raphael Semmes Road, serves as the University’s coordinating agency in foreign student affairs and acts as a liaison office between foreign students, administrative units and departments of the University, and agencies of the U.S., foreign governments, and private organizations. The office staff provides advisory services to foreign students regarding their financial,
personal, educational, social, and immigration concerns. Emergency loans for foreign students are also administered by this office.

The International Student Office also administers the Fulbright Program for graduate study and research abroad by American citizens. Informational and advisory services are available to any student who may be interested in study in another country.
The College of Agriculture at LSU is an integral part of the land-grant college system. The college includes 16 departments and three schools with a faculty exceeding 160 members. Of these faculty members, 136 are jointly employed by the Center for Agricultural Sciences and Rural Development. 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 education and technology, 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 coursework 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 sea foods, 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.

COORDINATION WITH THE CENTER FOR AGRICULTURAL SCIENCES AND RURAL DEVELOPMENT

The College of Agriculture offers a unique educational opportunity through a coordinated program of mutual cooperation with the Center for Agricultural Sciences and Rural Development which includes the
## Teaching Divisions

<table>
<thead>
<tr>
<th>Teaching Division</th>
<th>Curriculum</th>
<th>Degrees</th>
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<tbody>
<tr>
<td>Department of Agricultural Economics and Agribusiness</td>
<td>Agricultural Business, Agricultural Economics</td>
<td>Bachelor of Science</td>
</tr>
<tr>
<td>Department of Agricultural Engineering*</td>
<td>Agricultural Mechanization</td>
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</tr>
<tr>
<td>Department of Agronomy</td>
<td>Crop Production and Soil Management, Crop Science, Soil Science</td>
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<tr>
<td>Department of Animal Science</td>
<td>Animal Science</td>
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<tr>
<td>Department of Dairy Science</td>
<td>Dairy Manufacturing (with options), Dairy Production—Commercial, Dairy Production—Science, Environmental Health</td>
<td></td>
</tr>
<tr>
<td>Department of Entomology</td>
<td>Entomology (Science), Plant and Animal Protection</td>
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<tr>
<td>Department of Experimental Statistics</td>
<td>Food Science</td>
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<td>Textiles and Clothing—Communication, Dietetics, Family Life and Environment, Food and Nutrition, Merchandising</td>
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<tr>
<td>School of Home Economics</td>
<td>Horticultural Science (with option)</td>
<td></td>
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<tr>
<td>Department of Horticulture</td>
<td>Poultry Science</td>
<td></td>
</tr>
<tr>
<td>Department of Plant Pathology and Crop Physiology</td>
<td>Pre-veterinary Medicine</td>
<td></td>
</tr>
<tr>
<td>Department of Poultry Science</td>
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<tr>
<td>Department of Veterinary Science</td>
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<tr>
<td>School of Vocational Education:</td>
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<tr>
<td>Department of Extension and International Education</td>
<td>Industrial Arts Education, Industrial Technology (with options), Vocational Trade and Industrial Education</td>
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<tr>
<td>Department of Industrial and Technical Education</td>
<td>Vocational Agricultural Education</td>
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<td>Vocational Home Economics Education</td>
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<tr>
<td>Department of Vocational Home Economics Education</td>
<td>General Agriculture, International Agriculture, Rural Sociology</td>
<td></td>
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<tr>
<td>School of Forestry and Wildlife Management</td>
<td>Forestry (with options)</td>
<td>Bachelor of Science in Forestry</td>
</tr>
</tbody>
</table>

*For curriculum in agricultural engineering, see College of Engineering, page 177.
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 South and Central America and throughout Southeast Asia.

FACILITIES

Facilities available for instructional purposes include over 4,500 acres of farm and timber land with the necessary buildings for the care and study of crops, livestock and poultry, and wildlife and forests.

Livestock available for instruction include herds of Hereford, Charolais, Angus, and Brahman cattle and their crosses. Breeds of sheep include Rambouillet and Suffolk. Herds of swine include Hampshire, Duroc, and Yorkshire breeds. A number of quarter horses are maintained for research and instruction. The dairy herd is composed of Holstein-Freisians and Jerseys. The Dairy Improvement Center is the hub of the artificial breeding program in Louisiana. Poultry used in instruction include Rhode Island Red, New Hampshire, White Plymouth Rock, and White Leghorn flocks.

Many buildings on the campus at Baton Rouge are devoted specifically to the instruction and research activities of the various departments and schools of the college. Computer facilities, laboratories and related research facilities are used for teaching purposes. Land and facilities at branch experiment 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 of the college may be required to take a comprehensive examination before credit is allowed.

d. On recommendation of 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. Complete their respective curricula with at least a 2.00 grade-point average on all work taken not terminating in grades of "P," "WA," "WB," "WC," "WD," or "I."

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 foreign students only). Those who fail to do so must earn a grade of "C" or better in English 2002 or take the English Proficiency Examination. Students who fail to score at least 298 on this test must attend the English Writing Laboratory for remedial instruction until declared proficient by the laboratory staff and the College of Agriculture English Proficiency Committee.

3. The last 30 semester hours presented for the degree must be taken in residence in the College of Agriculture.

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, poultry science, extension education, and vocational agricultural education. In addition, master’s degrees are offered in applied statistics, fisheries, forest products, technology, wildlife, home economics, industrial education, and vocational home economics education. For further details, consult the Graduate School Catalog.

DEPARTMENTS AND CURRICULA

The dean, directors of schools, heads of departments, and members of the faculty of the college will be pleased to confer 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 the 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 in the college.

General Agriculture

The curriculum in general agriculture is designed for those students who desire nonspecialized training to prepare themselves for farming and related business, commercial, industrial, and public-service positions. The curriculum provides a strong foundation in the basic sciences and contact with the technical branches of agriculture. Provision is made to meet specific needs and particular interests of students through selective groups of electives.

CURRICULUM IN GENERAL AGRICULTURE

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.: 134</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN YEAR</td>
</tr>
<tr>
<td>Agriculture 1001</td>
</tr>
<tr>
<td>Animal Science 1011</td>
</tr>
<tr>
<td>Biology 1001, 1002, 1003, 1004 or Botany 1001, 1002 or Zoology 1001, 1002</td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<tr>
<td>English 1001, 1002</td>
</tr>
<tr>
<td>Mathematics 1021, 1022, or 1011, 1012; or 1021, 1006; or 1011, 1006</td>
</tr>
<tr>
<td>Electives or ROTC</td>
</tr>
</tbody>
</table>

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| 36-37 |
**Department of Agricultural Economics and Agribusiness**

The curricula in the Department of Agricultural Economics and Agribusiness are designed to provide thorough training in the application of economic and business principles to agricultural problems. Departmental offerings include courses in farm management, production economics, marketing, credit and finance, land and water economics, agricultural policy, prices, and statistics.

With basic training in the agricultural sciences and an understanding of economic principles, students majoring in agricultural economics are well prepared for positions in the Cooperative Extension Service, USDA, and businesses serving agriculture, as well as the management of commercial farming enterprises. Additional training at the graduate level leading to the master’s and doctoral degrees is offered for students preparing for professional careers in domestic and foreign government service, research, or teaching.

The department also offers a curriculum in agricultural business which provides training in basic agricultural sciences plus instruction in economics and business, including accounting, administration, management, marketing, law, and finance. The student majoring in agricultural business is given considerable freedom to choose courses which will contribute to specialized knowledge in a particular area of interest such as agricultural finance or banking; processing plant management; operation of a livestock market or slaughter plant; or management or representation of a feed, farm supply, machinery, or insurance firm. The agricultural business curriculum is particularly suited to training for the successful operation of a commercial farming enterprise.

Students interested in supplementing work in their major departments with training in agricultural business can do so by taking a minor in this area offered by the department. The details for such a minor will be worked out between the student’s department and the Department of Agricultural Economics and Agribusiness.

**CURRICULUM IN AGRICULTURAL BUSINESS**

**TOTAL SEM. HRS.: 134**

**Approved Electives:** AGRICULTURE—9 sem. hrs. must be elected from courses within the college other than agricultural economics courses; BASIC SOCIAL SCIENCES—select from American government, American history, comparative economic systems, political systems, and social systems and institutions; HUMANITIES—select from applied arts, English literature, fine arts, foreign languages, philosophy, and psychology.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Agricultural Economics 1098, 2075, 2077</td>
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<td>3</td>
<td>Agricultural Mechanization 2066</td>
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<tr>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
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<td>Agronomy 2051</td>
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<td>Computer Science 1240</td>
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<td>English 1002</td>
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<td>Economics 2030</td>
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<tr>
<td>Zoology 1001, 1002 or Botany 1001, 1002 or Biology 1001, 1002, 1003, 1004</td>
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<td>Speech 2060</td>
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<td>Electives or ROTC</td>
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<td>Electives or ROTC</td>
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<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Finance 3200, 3715</td>
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</tr>
<tr>
<td>Electives</td>
<td>33</td>
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</table>
Agricultural Mechanization

The expanding requirements for food and fiber throughout the world create an evergrowing need for college-trained personnel who can increase the productivity of farm workers. The complex problems associated with design, selection, application, and maintenance of the large, complicated, and expensive machinery needed for modern agriculture have defined a new field of specialization with excellent career opportunities. The agricultural mechanization curriculum, administered by the Department of Agricultural Engineering, is comprised of the study of economics, machine fundamentals, and agricultural sciences, along with humanities and social sciences. There are sufficient electives in the curriculum to allow the student to specialize in a related area of interest.

Graduates find employment in the farm machinery industry as territory managers, retail and wholesale salespersons, and service consultants; as farm managers on large mechanized farms; and in foreign agriculture, cooperative extension work, the processing industry, and public service.

CURRICULUM IN AGRICULTURAL MECHANIZATION
TOTAL SEM. HRS.: 134

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Agronomy 2051</td>
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</table>
Department of Agronomy

The Department of Agronomy curricula train graduates for the operation and management of specialized and general farms; for technical work in crop breeding, crop production, and soil science; and for advanced work in crop breeding, crop physiology, soil fertility, soil chemistry, and soil physics. Students who expect to complete advanced technical work in crop breeding and crop physiology to prepare for positions with seed farms, experiment stations, and federal agencies are advised to choose their electives in genetics and botany. Those preparing for technical careers in soil science and for employment with fertilizer companies, experiment stations, and federal agencies, are advised to choose electives in chemistry, physics, plant physiology, and plant nutrition.

CURRICULA IN AGRONOMY

Undergraduate students in this department may choose either the crop production and soil management, crop science, or soil science curriculum. The course requirements in the first two years of the crop science and the soil science curricula are so similar that the choice between these may be delayed until the beginning of the junior year.

Curriculum in Crop Production and Soil Management

TOTAL SEM. HRS.: 134

<table>
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<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<td>Agriculture 2072</td>
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<td>or Poultry Science 1049</td>
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<td>Agronomy 2051</td>
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<td>Chemistry 1201, 1202, 1212</td>
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TOTAL SEM. HRS.: 134

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Curriculum in Crop Science

TOTAL SEM. HRS.: 134

<table>
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<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Agronomy 1021</td>
<td>3</td>
<td>Agronomy 2051</td>
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(Continued column 1 next page)
## Department of Animal Science

The Department of Animal Science offers coursework 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, agricultural mechanization, business management, economics, entomology, veterinary science, and pre-veterinary 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 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.
Department of Dairy Science

The Department of Dairy Science offers curricula in dairy manufacturing, dairy production, and environmental health. 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, Rumininology Laboratory, and Nutrition Laboratory. Students who select the appropriate options in dairy production can stress either the scientific approach, operations of commercial dairy farms, or nonfarm-oriented commercial aspects of dairy and related industries. Graduates in dairy production may qualify for graduate studies and for such positions as commercial dairy farming, technical sales and services, teaching and research, and personnel relations in dairy and associated industries.

The dairy manufacturing curriculum includes scientific principles of product-processing techniques, quality, and inventory control. Selection of applicable courses in business or economics provides for a commercial approach, while selection of courses in chemistry, bacteriology, etc., provides for a science specialization. With either approach, the student is prepared for positions of leadership in the industry by way of milk processors and cooperatives, industry suppliers, related food agencies, various governmental agencies, and educational institutions.

CURRICULUM IN ANIMAL SCIENCE

TOTAL SEM. HRS.: 134

FRESHMAN YEAR SEM. HRS.
Agriculture 1001 .................................................. 1
Agronomy 1021 .................................................. 3
Animal Science 1011 .......................................... 3
Chemistry 1201, 1202, 1212 .................................. 8
English 1002 .................................................. 3
Mathematics 1021 ............................................... 3
Electives or ROTC ........................................... 11

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SOPHOMORE YEAR SEM. HRS.
Agricultural Economics 2075 or 2077 .................. 3
Animal Science 2071 ........................................ 3
Botany 1001 .................................................. 4
Chemistry 2060 ............................................... 3
Speech 2060 .................................................. 3
Zoology 1001 .................................................. 4
Electives or ROTC ........................................... 17

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JUNIOR YEAR SEM. HRS.
Agriculture 2072 .............................................. 3
Agronomy 2051 ................................................ 4
Animal Science 3053, 4009, 4010, 4015, 4018 ..... 17
Microbiology 2051 .......................................... 4
Electives .................................................. 5

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SENIOR YEAR SEM. HRS.
Agricultural Economics 4001 or 4015 ............... 3
Animal Science 3033, 3040, 4092 ..................... 7
Animal Science 4081, 4084, 4086, or 4088 ....... 5
Approved social science and/or humanities electives ........................................... 6
Electives .................................................. 11

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CURRICULUM IN DAIRY MANUFACTURING (WITH OPTIONS)

TOTAL SEM. HRS.: 134

Students wishing to emphasize the commercial phase of dairy manufacturing and the business applications of accounting, 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.

FRESHMAN YEAR SEM. HRS.
Agriculture 1001 .................................................. 1
Biology 1001, 1002, 1003, 1004; or Botany 1001, 1002, or Zoology 1001, 1002 .......... 8
Chemistry 1001, 1002; or Chemistry 1201, 1212* .... 6
Dairy Science 1048 ............................................. 3
English 1002 .................................................. 3
Mathematics 1011, 1006; or 1021, 1022* .......... 6
Electives or ROTC ........................................... 5

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SOPHOMORE YEAR SEM. HRS.
Accounting 2001 .................................................. 3
Chemistry 1004 or 1212* ..................................... 2
Dairy Science 2075 ............................................. 3
Economics 2030** or Agricultural Economics 2075 .................................................. 3
Microbiology 2051 ............................................. 4
Option requirements*** ...................................... 9-11
Approved basic social science and/or humanities electives ........................................... 3
Electives or ROTC ........................................... 5-7

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JUNIOR YEAR SEM. HRS.
Dairy Science 4022 ............................................. 3
English 2002 or 2010 .......................................... 3

(Continued column 1 next page)

(Continued column 2 next page)
### CURRICULA IN DAIRY PRODUCTION

Two curricula with three options are offered in dairy production. These are dairy production—commercial (with two options) and dairy production—science (with one option). 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 agricultural engineering, 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.

#### Curriculum in Dairy Production—Commercial

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Agriculture 1001</td>
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<td>Agricultural Economics 2077</td>
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<td>Biology 1001, 1002, 1003, 1004 or Botany</td>
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<td>Agricultural Economics 2075 or Economics 2030</td>
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<tr>
<td>1001, 1002 or Zoology 1001, 1002</td>
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<td>Agronomy 1021, 2051</td>
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<td>Dairy Science 1048, 1049</td>
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<td>Dairy Science 2075</td>
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<tr>
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<td>Zoology 2153 or Agriculture 2072</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Agricultural Economics 4015 or Marketing 4421 or Finance 3200</td>
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<tr>
<td>Animal Science 2098 or 4009</td>
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<td>Dairy Science 2085, 3040, 4043</td>
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<td>Dairy Science 4044 or Management 4164</td>
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<td>Experimental Statistics 4001 or Agricultural Economics 4018</td>
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<td>or 4167</td>
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<td>Management 3159</td>
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<td>Dairy Science 4010, 4018, 4051, 4054</td>
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#### Curriculum in Dairy Production—Science

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(Continued column 1 next page)

(Continued column 2 next page)
### CURRICULUM IN ENVIRONMENTAL HEALTH

The Department of Dairy Science, in cooperation with the Louisiana State Department of Health and Human Resources, offers an interdisciplinary course of study to meet the needs of those students who desire basic training in environmental pollution control as related to the applied areas in public health of general sanitation, food-product control, and/or aquatic pollution. Certification as a professional registered sanitarian in environmental health may be obtained by completing a nine-week intern program of field work (after the junior or senior year) under the direction of the Louisiana Department of Health and Human Resources in addition to completing the curriculum for the B.S. degree.

**Approved Technical Electives:** At least 26 semester hours from Group I and at least 10 semester hours from Group II or at least 26 semester hours from Group II and at least 10 semester hours from Group I.

**GROUP I (HEALTH AND FOOD):** Animal Science 3053; Civil Engineering 3092; Dairy Science 4021 or 4022, and 4081; Entomology 4002, 4003; Food Science 4070, 4075; HP & RE 1600; Microbiology 4122, 4162, 4190; Poultry Science 4004; and Zoology 4105.

**GROUP II (AQUATIC):** Agronomy 2051; Botany 4046; Chemistry 2251, 2252, 4150; Civil Engineering 4100, 4110; Food Science 4086; Forestry 1001; Geology 1001, 1005; Nuclear Science 4101; Wildlife 4021; and Zoology 4153.

### FRESHMAN YEAR

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<td>Dairy Science 1048, 1049</td>
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<td>Mathematics 1021, 1022</td>
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<td>Experimental Statistics 4001</td>
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<td>Microbiology 2051</td>
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<td>Physics 2001-2002</td>
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<td>Zoology 2153 or Agriculture 2072</td>
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### SENIOR YEAR

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<td>Dairy Science 3040, 4010, 4018, 4051, 4054</td>
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TOTAL SEM. HRS.: 134
Department of Entomology

Students majoring in entomology have a choice of either the entomology (science) or the plant and animal protection curriculum, both of which are offered by the Department of Entomology. The entomology (science) curriculum is designed specifically for those students who demonstrate at an early date the aptitude for and interest in pursuing graduate studies. 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 and chemical industries; regulatory work in state and federal organizations; teaching, extension, or research in educational institutions; and in private business as pest-control operators or agricultural pest management consultants.

**CURRICULUM IN ENTOMOLOGY (SCIENCE)**

**TOTAL SEM. HRS.: 134**

At least 12 semester hours of electives must be courses numbered above 4000, eight semester hours of which must be in entomology.

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<tr>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<td>English 1002</td>
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<td>or Poultry Science 1049</td>
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<td>Botany 1001, 1002</td>
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<td>Chemistry 2261, 2262, 2364</td>
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<td>Entomology 2001</td>
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<td>Zoology 2153, 2154</td>
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**CURRICULUM IN PLANT AND ANIMAL PROTECTION**

**TOTAL SEM. HRS.: 134**

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<tbody>
<tr>
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<td>Agronomy 1021 or Horticulture 2050</td>
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<td>Biology 1001, 1002, 1003, 1004</td>
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<td>Books and Libraries 1001</td>
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<td>Chemistry 1201, 1202, 1212</td>
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<td>English 1002</td>
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<tr>
<td>Mathematics 1021, 1022, or 1021, 1006; or 1011, 1012</td>
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<td><strong>32-33</strong></td>
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<td>Botany 4041</td>
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<td>Chemistry 2000</td>
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<td>Entomology 4001, 4005, 4006</td>
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<td>Plant Pathology 4000, 4020</td>
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<td>English 2002</td>
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<td>Veterinary Science 3001</td>
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(Continued column 1 next page)  
(Continued column 2 next page)
Department of Experimental Statistics

The Department of Experimental Statistics is primarily a service department, providing instruction at both the undergraduate and graduate levels, consultation with research personnel, and computational services on research projects.

The Master of Applied Statistics, offered by this department, is designed to acquaint graduate students with the techniques of statistical methods and the application of those methods to various fields of specialization.

Department of Food Science

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

Approved Electives: Electives should be selected according to the major area of interest and with consent of the student's adviser. Supplemental courses in the basic sciences or courses in the College of Business Administration may be chosen. A total of 12 sem. hrs. of approved supporting electives must be selected from one of the following groups. For technical emphasis: Animal Science 3053, 4094; Dairy Science 4021, 4022, 4081, 4082; Food Science 4070, 4086, 4099; Home Economics 4011, 4012; Horticulture 4051, 4096; Industrial Education 2045; and Poultry Science 4004. For business and management emphasis: Accounting 2001; Finance 3201; Management 3159, 4167; and Marketing 3413.

FRESHMAN YEAR

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SENIOR YEAR

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Department of Horticulture

The Department of Horticulture offers specialized training in the production and handling of fruit, vegetable, and ornamental crops. The undergraduate curriculum, which is oriented toward the basic sciences, leads to the Bachelor of
Science degree. Students graduating in horticulture are prepared for graduate study in plant breeding; nutrition; physiology of fruits, vegetables, and ornamentals; and for ownership or management of commercial establishments as well as for other job opportunities within the realm of horticulture.

**CURRICULUM IN HORTICULTURAL SCIENCE**
**TOTAL SEM. HRS.: 134**

*Approved electives must include 3 sem. hrs. in humanities and 6 sem. hrs. in social sciences. A minimum of 12 sem. hrs. of electives must be in courses numbered above 3000. English 1001 may be taken as an elective.*

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<th>SOPHOMORE YEAR</th>
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<td>Chemistry 2261, 2262, 2364</td>
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<td>Microbiology 2051</td>
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<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agriculture 2072</td>
<td>3</td>
<td>Agronomy 4052</td>
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<tr>
<td>Biochemistry 2083</td>
<td>3</td>
<td>Botany 4024</td>
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<tr>
<td>English 2002</td>
<td>3</td>
<td>Entomology 4012</td>
<td>3</td>
</tr>
<tr>
<td>Entomology 2001</td>
<td>3</td>
<td>Horticulture 4021, 4071, or 4086; and 4051, 4083, 4085, or 4096</td>
<td>6-7</td>
</tr>
<tr>
<td>Horticulture 2075, 2076</td>
<td>6</td>
<td>Plant Pathology 4012; and 4061 or 4070</td>
<td>6-7</td>
</tr>
<tr>
<td>Plant Pathology 3060, 4000</td>
<td>7</td>
<td>Approved electives</td>
<td>9-11</td>
</tr>
<tr>
<td>Speech 2060</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>Approved electives</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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**CURRICULUM IN HORTICULTURAL SCIENCE (HORTICULTURAL TECHNOLOGY OPTION)**
**TOTAL SEM. HRS.: 134**

The technology option is designed for those students who wish to terminate their studies at the baccalaureate level. However, students electing this option may pursue a graduate program with little loss of time.

*Approved electives must include 3 sem. hrs. in humanities and 6 sem. hrs. in social sciences. A minimum of 12 sem. hrs. of electives must be in courses numbered above 3000. English 1001 may be taken as an elective.*

<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>Agronomy 2051</td>
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</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>Biochemistry 2083</td>
<td>3</td>
</tr>
<tr>
<td>Botany 1001, 1002</td>
<td>8</td>
<td>Chemistry 2060</td>
<td>3</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<td>Horticulture 2051, 2052, 2061, 2075</td>
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<td>Landscape Architecture 2111</td>
<td>3</td>
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<td>Horticulture 2050</td>
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<td>Microbiology 2051</td>
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<td>Mathematics 1021, 1022</td>
<td>6</td>
<td>Speech 2060</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
<td>Electives or ROTC</td>
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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Agricultural Mechanization 2094</td>
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<tr>
<td>English 2002</td>
<td>3</td>
<td>Entomology 4012</td>
<td>3</td>
</tr>
<tr>
<td>Entomology 2001</td>
<td>3</td>
<td>Horticulture 4083, 4085, 4086</td>
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<td>Horticulture 2076</td>
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<td>Plant Pathology 4012, 4070</td>
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<td>Horticulture 4021, 4051, 4071 (select two)</td>
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<td>Approved electives</td>
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<td>Plant Pathology 3060, 4000</td>
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<td></td>
</tr>
<tr>
<td>Approved electives</td>
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<td><strong>Total</strong></td>
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</tbody>
</table>
**International Agriculture**

The curriculum in international agriculture is designed to provide students with the theory and practical knowledge of technical agriculture essential for social, economic, and cultural progress in emerging countries around the world. Agricultural background is not essential, since the curriculum includes requirements for practical experiences so that students can apply their knowledge to conditions in the countries in which they are interested. In addition to basic courses in chemistry; biology; botany, or zoology; mathematics; English; and history, students must take a wide variety of courses in technical agriculture. Freedom in course selection allows preparation for specific, highly specialized areas of professional employment with private firms, the government, or university assignments overseas. The curriculum is also designed to prepare students for graduate work; thus, it insures a broad education in the humanities, social sciences, and technical agriculture.

<table>
<thead>
<tr>
<th>CURRICULUM IN INTERNATIONAL AGRICULTURE</th>
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<td>TOTAL SEM. HRS.: 134</td>
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### FRESHMAN YEAR

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<tr>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
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</tr>
<tr>
<td>Biology 1001, 1002, 1003, 1004 or Botany 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002 or English 1004, 1005 and Speech 1051 (those qualified to take only English 1002 must select an additional 3 hr. English course numbered above 2000)</td>
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<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
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### SOPHOMORE YEAR

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<th>Course</th>
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<td>Agriculture 2072</td>
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<td>Agronomy 1021, 2051</td>
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<td>Biochemistry 2083, 2084</td>
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<td>Horticulture 2050</td>
<td>4</td>
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<tr>
<td>Microbiology 2051</td>
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</tr>
<tr>
<td>Approved social science electives (must include one rural sociology course)</td>
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### JUNIOR YEAR

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<td>Agricultural Mechanization 2059, 2061</td>
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<td>Agronomy 3020, 3021</td>
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<tr>
<td>Animal Science 4009</td>
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</tr>
<tr>
<td>Animal Science 4018 or Dairy Science 4018 or Agronomy 4064</td>
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<tr>
<td>Entomology 2001</td>
<td>3</td>
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<tr>
<td>Foreign language or Sociology 1005</td>
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<tr>
<td>Forestry 4038 or 4039</td>
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</tr>
<tr>
<td>Plant Pathology 4000</td>
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<tr>
<td>Veterinary Science 3001</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
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<td>Agricultural Economics 4015, 4053</td>
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<td>Animal Science 4071</td>
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<td>Entomology 4006</td>
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<td>Forestry 4030</td>
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<tr>
<td>Horticulture 4050</td>
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<tr>
<td>Foreign language or electives (foreign language requirement depends on background and interest of student)</td>
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<tr>
<td>Approved electives*</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>27-28</strong></td>
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</tbody>
</table>

*Three sem. hrs. of electives must be in teaching methods; electives must be selected in consultation with the dean of the College of Agriculture; at least one-half of all elective courses taken are to be numbered 3000 or above.*

### Department of Plant Pathology and Crop Physiology

The Department of Plant Pathology and Crop Physiology offers service courses in plant pathology, crop physiology, and weed science. The Master of Science and Doctor of Philosophy degrees in plant pathology are offered with concentration in either of these three areas.

### Department of Poultry Science

The poultry science curriculum, administered by the Department of Poultry Science, provides training for operation of poultry enterprises such as market egg farms, breeding farms, broiler plants, and hatcheries; service in various governmental agencies; and employment with commercial organizations such as feed manufacturers, railroads, and equipment manufacturers. Students who expect to operate poultry enterprises after graduation are advised to supplement this curriculum with electives in animal science, agronomy, and agricultural economics. 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.
Electives: A minimum of 6 sem. hrs. of electives must be in humanities, social studies, and/or languages.

<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>Biology 1001, 1002, 1003, 1004 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>Mathematics 1021, 1031</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
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<tr>
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<thead>
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<tbody>
<tr>
<td>Animal Science 4018 or Dairy Science 4018</td>
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</tr>
<tr>
<td>Chemistry 2261, 2262, 2364 or Chemistry 2060, Accounting 2101, Marketing 3401</td>
<td>8-9</td>
</tr>
<tr>
<td>Experimental Statistics 4001</td>
<td>4</td>
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<tr>
<td>Industrial Education 3063</td>
<td>3</td>
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<tr>
<td>Management 3159 or 4159 or Industrial Education 3061</td>
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</tr>
<tr>
<td>Psychology 3050</td>
<td>3-10</td>
</tr>
<tr>
<td><strong>Total: 34</strong></td>
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</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 both in and out of 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 agricultural 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.

Curriculum in Poultry Science

TOTAL SEM. HRS.: 134

These courses are selected from the Humanities, Social Studies, and/or Languages.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
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</tr>
<tr>
<td>Agronomy 1021 or Forestry 1001 or Horticulture 2050</td>
<td>2-4</td>
</tr>
<tr>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology 1001 or 1003</td>
<td>3</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>History 1001, 1003, 2055, or 2057</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1011, 1012, or 1021, 1022, or 1021, 1031</td>
<td>6</td>
</tr>
<tr>
<td>Philosophy 1021</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science 1001-1002</td>
<td>6</td>
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<tr>
<td><strong>Electives or ROTC</strong></td>
<td>2-4</td>
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<tr>
<th>SOPHOMORE YEAR</th>
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<tbody>
<tr>
<td>Accounting 2001</td>
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<td>Agriculture 2072</td>
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<tr>
<td>Computer Science 1240</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030 or Agricultural Economics 2075</td>
<td>3</td>
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<td>Entomology 2001</td>
<td>3</td>
</tr>
<tr>
<td>Industrial Education 2051</td>
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</tr>
<tr>
<td>Microbiology 2051</td>
<td>4</td>
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<tr>
<td>Poultry Science 1049</td>
<td>3</td>
</tr>
<tr>
<td>Speech 2060 or 1061</td>
<td>3</td>
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<tr>
<td><strong>Electives or ROTC</strong></td>
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<tbody>
<tr>
<td>Animal Science 4009</td>
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<td>Poultry Science 4004, 4010, 4051, 4061, 4072</td>
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<tr>
<td>Veterinary Science 4004</td>
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<td><strong>Total: 34</strong></td>
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Curriculum in Rural Sociology

TOTAL SEM. HRS.: 134

Electives: Free electives may be selected from any courses offered by the University with consent of the chairperson of the Department of Sociology. The social science electives numbered 3000 or above must be selected from courses in anthropology, economics, geography, political science, or psychology. Agricultural or life sciences electives must be selected from courses within the college or from botany or zoology.

<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 or Forestry 1001 or Horticulture 2050</td>
<td>2-4</td>
</tr>
<tr>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology 1001 or 1003</td>
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<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1002</td>
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</tr>
<tr>
<td>History 1001, 1003, 2055, or 2057</td>
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</tr>
<tr>
<td>Mathematics 1011, 1012, or 1021, 1022, or 1021, 1031</td>
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<tr>
<td>Philosophy 1021</td>
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<tr>
<td>Physical Science 1001-1002</td>
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<td>2-4</td>
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<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Biology 1001, 1002, 1003, 1004 or Botany 1001 and Zoology 1001</td>
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</tr>
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<td>Economics 2030</td>
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</tr>
<tr>
<td>English 2001 or 2002</td>
<td>3</td>
</tr>
<tr>
<td>Geography 2051 or 2061</td>
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<tr>
<td>Political Science 1001, 2051, 2053, or 2057</td>
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</tr>
<tr>
<td>Psychology 2000 or 2060</td>
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<td>Sociology 2001, 2351</td>
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<tr>
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<td>Industrial Education 2051</td>
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<td>Microbiology 2051</td>
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<tr>
<td>Poultry Science 1049</td>
<td>3</td>
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<tr>
<td>Speech 2060 or 1061</td>
<td>3</td>
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<tr>
<td><strong>Electives or ROTC</strong></td>
<td>6</td>
</tr>
<tr>
<td><strong>Total: 34</strong></td>
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</tr>
</tbody>
</table>
Department of Veterinary Science

The Department of Veterinary Science is primarily concerned with research on animal diseases and parasites, but it also offers courses in physiology, hygiene, and sanitation of farm animals, and in diseases of poultry. These courses are intended to supplement instruction in animal science, dairy science, and poultry science; not to prepare for the practice of veterinary 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 pre-veterinary 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 pre-veterinary medicine curriculum should contact the dean of the college and/or the head of the Department of Veterinary Science prior to initial registration to insure proper enrollment in required courses.

A number of students have found 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 69 hours of coursework 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 of application. A grade of less than ''C'' in a required course will not be acceptable. 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 pre-veterinary curriculum for the LSU School of Veterinary Medicine is listed below. Requests for additional information concerning the pre-veterinary program should be addressed to: Dean, College of Agriculture, or Dean, School of Veterinary Medicine. Admission to the pre-veterinary curriculum does not carry assurance that the student will be admitted to the professional curriculum. See also the “School of Veterinary Medicine,” page 206.

CURRICULUM IN PRE-VETERINARY MEDICINE

Elective hours may be taken in ROTC; Animal Science 1011; Dairy Science 1048; History 2055, 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 9 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>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
<td>1</td>
<td>Biology 1002, 1004</td>
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</tr>
<tr>
<td>Biology 1001, 1003</td>
<td>4</td>
<td>Chemistry 1202, 1212</td>
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<tr>
<td>Chemistry 1201</td>
<td>3</td>
<td>English 1002</td>
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<tr>
<td>English 1001</td>
<td>3</td>
<td>Mathematics 1012 or 1022</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1011 or 1021</td>
<td>3</td>
<td>Electives or ROTC</td>
<td>18</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>17</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LOUISIANA FARM COUNCIL

The college faculty maintains close contact with problems of rural areas, farmers and their families, and agricultural industries and organizations throughout the state. In order for the work of the college to be responsive to rural and agricultural needs and other interests of the state, the Louisiana Farm Council serves in an advisory capacity to the college and the Center for Agricultural Sciences and Rural Development. The council is composed of presidents of all statewide agricultural commodity organizations, State Commissioner of Agriculture, State Director of Vocational Agricultural Education, Director of the Agricultural Experiment Station, Director of the Cooperative Extension Service, Dean of the College of Agriculture, and Chancellor of the Center for Agricultural Sciences and Rural Development.

PLACEMENT SERVICE

The College of Agriculture Placement Office arranges for students in all phases of agriculture, forestry, and home economics to be interviewed on campus by recruiters from various companies, as well as federal, state, and local agencies. Students should contact this office as early after registration as possible in order to receive proper orientation concerning job opportunities. Counseling for job opportunities and careers is available daily. These services are also available to alumni.

STUDENT AGRICULTURAL COUNCIL

The Student Agricultural Council brings the various agricultural organizations together for cooperative enterprises. Membership includes student officers of the college and elected representatives from all agricultural organizations. The council serves as a student advisory group to the dean of the college.

School of Forestry and Wildlife Management

THOMAS HANSBROUGH, Director
101 Forestry Building

The School of Forestry and Wildlife Management offers undergraduate and graduate education to students who wish to become professionals in forestry and related fields. The forestry program at LSU is accredited by the Society of American Foresters.

The purposes of the forestry curriculum are to educate students in fundamental sciences and arts and in the theory and practice of forest resource management, and to prepare students for graduate study in more specialized areas of forestry, fisheries, or wildlife biology. Accordingly, the forestry curriculum provides options in forest management, industrial forestry, wood utilization, forest science, and forestry and wildlife which offer the opportunity for further specialization or generalization in these areas. Job opportunities for forestry graduates exist in private industry, state forestry and wildlife management agencies, and in departments of the federal government.

Transportation for field trips is provided by the University but financed by the students. Forestry field fees vary in amount, based on the cost of transportation, and are payable at the time of registration. Attendance in a five-week summer field course following the junior year is required of all forestry students. The summer term transportation fee is $75.
DEGREE REQUIREMENTS OF THE SCHOOL

Requirements for the Bachelor of Science in Forestry degree include at least 136 semester hours with a grade-point average of 2.00 or above on all work taken, except those courses for which grades of "P," "WA," "WB," "WC," "WD," or "I" are recorded.

CURRICULUM

CURRICULUM IN FORESTRY (WITH OPTIONS)

TOTAL SEM. HRS.: 136

<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>Agronomy 2051</td>
<td>4</td>
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<tr>
<td>Biology 1001, 1002, 1003, 1004* or Botany 1001, 1002</td>
<td>8</td>
<td>Computer Science 1240</td>
<td>3</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
<td>English 2002 or Management 2071</td>
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<td>English 1002</td>
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<td>Experimental Statistics 2095</td>
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<tr>
<td>Mathematics 1021, 1022, 1031</td>
<td>9</td>
<td>Physics 2001</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC**</td>
<td>3</td>
<td>Speech 2060 or 1061</td>
<td>3</td>
</tr>
<tr>
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<td>34</td>
<td>Option requirements***</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Electives or ROTC**</td>
<td>5</td>
</tr>
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<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>Forestry 2001, 3002, 3003</td>
<td>11</td>
<td>Forestry 4036, 4038, 4039</td>
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<tr>
<td>Option requirements***</td>
<td>11-17</td>
<td>Option requirements***</td>
<td>7-18</td>
</tr>
<tr>
<td>Approved electives**</td>
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<td>30-32</td>
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<td>30-32</td>
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<table>
<thead>
<tr>
<th>SUMMER (FOLLOWING JUNIOR YR.)</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Forestry 3033</td>
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<tr>
<td></td>
<td>5</td>
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</tbody>
</table>

*Students interested in taking advanced zoology courses in the forestry and wildlife option should take the biology series.

**6 sem. hrs. of electives may be chosen at student’s option; all other electives must be approved. At least 3 sem. hrs. of electives must be taken in humanities.

***Course requirements and hours (in parentheses) for the various options are as follows:

**Forest Management:** SOPHOMORE YEAR (6)—Chemistry 2060; Economics 2030. JUNIOR YEAR (11)—Agricultural Engineering 3307 or Agricultural Mechanization 2061 or Civil Engineering 1510, 1550 or 2500, 2510; Entomology 3001 or Plant Pathology 4011; Forestry 2043, 4048. SENIOR YEAR (11)—Forestry 4021, 4032, 4034, 4035.

**Industrial Forestry:** SOPHOMORE YEAR (6)—Chemistry 2060; Economics 2030. JUNIOR YEAR (14)—Accounting 2001 or 2003; Agricultural Engineering 3307 or Agricultural Mechanization 2061 or Civil Engineering 1510, 1550 or 2500, 2510; Management 3159; Forestry 2043, 4048. SENIOR YEAR (9)—Forestry 4034; Industrial Engineering 4201; Entomology 3001 or Plant Pathology 4011 or Forestry 4032.

**Wood Utilization:** SOPHOMORE YEAR (6)—Chemistry 2060; Forestry 2043. JUNIOR YEAR (15-17)—Economics 2030; Forestry 4045 or 4046 and 4044 or 4047; Industrial Education 2051; Physics 2002. SENIOR YEAR (12-14)—Entomology 3001 or Plant Pathology 4011; Forestry 4034, 4045 or 4046, and 4044 or 4047.

**Forest Science:** SOPHOMORE YEAR (6)—Chemistry 2261; Economics 2030. JUNIOR YEAR (16)—Agriculture 2072 or Zoology 2153; Botany 3060; Chemistry 2262; Entomology 3001; Forestry 2043. SENIOR YEAR (7)—Botany 4046; Plant Pathology 4011.

**Forestry and Wildlife:** SOPHOMORE YEAR (6)—Chemistry 2060; Economics 2030. JUNIOR YEAR (12-14)—Agricultural Engineering 3307 or Agricultural Mechanization 2061 or Civil Engineering 1510, 1550 or 2500, 2510; Entomology 3001 or Plant Pathology 4011; biological science electives. SENIOR YEAR (16-18)—Forestry 4032, 4035; Wildlife 4011, 4012; biological science electives. In consultation with faculty advisers, all students in the forestry and wildlife option must elect a minimum of 12 sem. hrs. of advanced biological science electives.
School of Home Economics

PATRICIA J. SAILOR, Director
125 Home Economics Building

Five undergraduate curricula are administered by the School of Home Economics. These curricula are planned to contribute to the general education of students; to provide for their personal development, including education for citizenship and family living; and to develop educational and professional competencies for fields open to qualified home economists. An integral part of each curriculum is general education. Included in this are courses in biological, physical, and social sciences; humanities; and home economics. Additional courses in each curriculum are selected from subject matter areas in home economics and related disciplines such as textiles and clothing, family life, food and nutrition, and food service management.

The curriculum planned to meet certification requirements for high school home economics teachers is offered by the School of Vocational Education.

A one-semester visiting-student program with the Fashion Institute of Technology, a fully accredited two-year 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 textiles and clothing—communication or in 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 are encouraged to consider courses in the School of Home Economics as an essential part of their general education.

CURRICULA

See page 101 for the curriculum in Vocational Home Economics Education.

CURRICULUM IN TEXTILES AND CLOTHING—COMMUNICATION
TOTAL SEM. HRS.: 134

<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>Accounting 2001</td>
<td>3</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
<td>Economics 2030 or Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>HP&amp;RE (activity courses)</td>
<td>2</td>
<td>2075</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
<td>12</td>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Textiles area: Chemistry 1201, 1202, and 1212; Math 1021 and 1022. Clothing—communication area: Chemistry 1001, 1002, 1004 or Biology 1001, 1002, 1003, 1004; and Math 1021 or 1011 and 1006</td>
<td>14</td>
<td>Home Economics 1040, 2035</td>
<td>6</td>
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<tr>
<td>Electives or ROTC</td>
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<td>Textiles area: Chemistry 2060; Management 2071; Physics 1003-1004. Clothing—communication area: Fine Arts 1011, 1847; Journalism 2151, 2900</td>
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<tr>
<td></td>
<td>34</td>
<td>Electives or ROTC</td>
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<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>English 2002</td>
<td>3</td>
<td>Home Economics 3060 or 3061</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 2015, 2045, 3045, 4037</td>
<td>12</td>
<td>Home Economics 3090, 4030</td>
<td>4</td>
</tr>
<tr>
<td>Home Economics 3040 or 4036</td>
<td>3</td>
<td>Home Economics 4035, 4038, 4040, 4041</td>
<td>9</td>
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<tr>
<td>Management 3159</td>
<td>3</td>
<td>(choose three)</td>
<td></td>
</tr>
<tr>
<td>Marketing 3401</td>
<td>3</td>
<td>Textiles area: Experimental Statistics 4001. Clothing—communication area: Journalism 3002</td>
<td>3-4</td>
</tr>
<tr>
<td>Speech 1061 or 2060</td>
<td>3</td>
<td>Approved home economics electives*</td>
<td>3</td>
</tr>
<tr>
<td>Textiles area: Microbiology 2051 and electives*</td>
<td>3</td>
<td>Approved social science electives*</td>
<td>6</td>
</tr>
<tr>
<td>Clothing—communication area: Interior Design 3721 or 3722; and Fine Arts 1440 or 1441</td>
<td>6</td>
<td>Electives*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>33</td>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

*Fashion Institute of Technology courses may be used as these electives.
CURRICULUM IN DIETETICS
TOTAL SEM. HRS.: 134

Upon completion of this curriculum, students are eligible to apply for an internship approved by the American Dietetic Association to become registered dietitians. Registered dietitians are employed in civilian, armed service, and veterans' administration hospitals; college and public school food service; community nutrition programs; commercial food service; and other professions in food and nutrition.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>HP&amp;RE (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 1011</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1022, 1012, or 1006</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>34</td>
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</tbody>
</table>

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Accounting 2001</td>
<td>3</td>
</tr>
<tr>
<td>Biochemistry 2083, 2084</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 2060</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030 or Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Home Economics 2015, 2016</td>
<td>6</td>
</tr>
<tr>
<td>Sociology 2001 or Anthropology 1003</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 2157</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>4</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>35</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Home Economics 3090, 4010, 4011, 4012, 4022</td>
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</tr>
<tr>
<td>Management 4167</td>
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<tr>
<td>VHEE 4004</td>
<td>3</td>
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<tr>
<td>Electives</td>
<td>10</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>33</td>
</tr>
</tbody>
</table>

### CURRICULUM IN FAMILY LIFE AND ENVIRONMENT
TOTAL SEM. HRS.: 134-135+

The purpose of this curriculum is to prepare students for professions whose primary concern is service to families—service that emphasizes improving the family and its physical and social setting. Professional courses selected in the junior and senior years from one area of concentration prepare students for careers in social and child welfare, government agencies, the Cooperative Extension Service, the business community, writing for magazines and journals, or nursery school and kindergarten teaching.

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 apply for nursery school-kindergarten teaching certification, a student must have completed required coursework, have no grade lower than a “C” in professional education courses, have a 2.50 grade-point average on all work attempted at LSU, and have passed the National Teacher's Examination.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212, or Biology 1001</td>
<td>6-8</td>
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<tr>
<td>1002, 1003, 1004 or Physical Science 1001,</td>
<td>1002</td>
</tr>
<tr>
<td>1002</td>
<td></td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>HP&amp;RE (activity courses)</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 1010, 1030, 1050</td>
<td>9</td>
</tr>
<tr>
<td>Fine Arts 2271* or fine arts elective</td>
<td>3</td>
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<tr>
<td>Mathematics courses</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC**</td>
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</tr>
<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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<tbody>
<tr>
<td>Agricultural Economics 2075 or Economics 2030</td>
<td>3</td>
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<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Home Economics 1032, 2055</td>
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<tr>
<td>Home Economics 2015* or approved electives (food and nutrition)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2000, 2004, 2040, or 2060*</td>
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</tr>
<tr>
<td>Sociology 2001 or 2501 or History 2055* or 2057*</td>
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</tr>
<tr>
<td>Speech* or philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 2157</td>
<td>3</td>
</tr>
<tr>
<td>HP&amp;RE electives</td>
<td>2</td>
</tr>
<tr>
<td>Electives or ROTC**</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>36</td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Home Economics 3061 or 3062, 3090, 4050, 4065, 4066</td>
<td>13</td>
</tr>
</tbody>
</table>
History 2071* or political science elective ........................................... 3
Social Welfare 3003 or EDCl 2025* ....................................................... 3
Sociology 2001, 2351, 2501, or 2721 ..................................................... 3
Approved home economics elective ..................................................... 3
(clothing and textiles) ......................................................................... 3
Professional courses** ........................................................................ 9
Electives** ......................................................................................... 6
33

† Students desiring certification in nursery school and kindergarten teaching are required to earn 135 semester hours if biology or chemistry rather than physical science is chosen as the science in the freshman year.
* Must be selected for certification in nursery school and kindergarten teaching.
** Courses chosen in consultation with academic adviser. For certification in nursery school and kindergarten teaching, students must select specific professional courses (**) and electives (**).

CURRICULUM IN FOOD AND NUTRITION
TOTAL SEM. HRS.: 134

Professional nutritionists are employed by industry, public health service, and other state, national, and international agencies for research, educational programs, and food and health services. This curriculum provides basic training for graduate study and research.

Electives are selected with the consent of the adviser.

<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>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>HP&amp;RE (activity courses)</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
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</tr>
<tr>
<td>Mathematics 1021 or 1011</td>
<td>3</td>
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<tr>
<td>Mathematics 1022, 1012, or 1006</td>
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<tr>
<td>Electives or ROTC</td>
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<tr>
<td>TOTAL</td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Biochemistry 2083, 2084</td>
<td>4</td>
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<tr>
<td>Chemistry 2060</td>
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<tr>
<td>Economics 2030 or Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Home Economics 2015</td>
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<tr>
<td>Microbiology 2051</td>
<td>4</td>
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<td>Psychology 2000</td>
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<td>Zoology 2157</td>
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<tr>
<td>Approved social science electives</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td>TOTAL</td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Home Economics 2016, 3060 or 3061, 4015, 4016</td>
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<tr>
<td>Approved home economics electives (other than food and nutrition courses)</td>
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<tr>
<td>Science option—Chemistry 2251, 2252; Microbiology 4110; English 2002; Communication option—Journalism 2090, 2151, 3002; Speech 1061 or 2060</td>
<td>11-12</td>
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<tr>
<td>Electives</td>
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</tr>
<tr>
<td>TOTAL</td>
<td>32</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Economics 3020 or 4011; 3090, 4010, 4012</td>
<td>10</td>
</tr>
<tr>
<td>Science option—Microbiology 4162; Experimental Statistics 4001. Communication option—Journalism 4082 and 5 sem. hrs. selected from Journalism 3001, 3065, 4030, 4031, 4075, 4107, or 4141; Speech 2070 or 4170</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>14</td>
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<tr>
<td>TOTAL</td>
<td>32</td>
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</tbody>
</table>

CURRICULUM IN MERCHANDISING
TOTAL SEM. HRS.: 134

Home economics students who are interested in merchandising may combine textiles and clothing with business courses as preparation for positions in retail buying and selling in department stores and specialty shops, fashion coordination and advertising, dressmaking, and fashion consulting in fabric stores.

Electives are selected with consent of the adviser.

<table>
<thead>
<tr>
<th>FRESHMEN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry 1001, 1002, 1004 or Biology 1001, 1002, 1003, 1004</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>HP&amp;RE (activity courses)</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics 1011 or 1021; and 1006</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 2001</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030 or Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Home Economics 1040, 2015, 2035, 2045</td>
<td>12</td>
</tr>
<tr>
<td>Management 2071</td>
<td>3</td>
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<tr>
<td>Speech 1061 or 2060</td>
<td>4</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>34</td>
</tr>
</tbody>
</table>
School of Vocational Education

CHARLIE M. CURTIS, Director
208 Stubbs Hall

The School of Vocational Education includes the Departments of Extension and International Education, Industrial and Technical Education, Vocational Agricultural Education, and Vocational Home Economics Education. These departments offer graduate and undergraduate training to students interested in teaching vocational agriculture, vocational home economics, vocational trade and industrial education, and industrial arts education. The school’s objectives are: (1) to provide training for vocational and industrial arts teachers, including professional training based primarily on participating experiences, the development of “doing” ability; (2) to develop teaching aids for teachers already in service; (3) to provide continuing education for teachers in service through graduate courses and short courses in professional fields; (4) to follow up resident teacher-training through field contacts; (5) to improve college teaching based on the abilities required of vocational teachers; and (6) to conduct research and studies making direct contributions to the development of the state vocational education program. The technical subject-matter instruction for teachers in these fields is largely provided by the various departments of the University.

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 maintenance of the program.

The programs of study leading to the various degrees in the teaching curricula offered by the school are based on requirements for teacher certification of the State Department of Education.

ADMISSION TO VOCATIONAL TEACHER EDUCATION PROGRAMS

Teacher-education curricula at the University are administered by the deans of the College of Education and the College of Agriculture. Vocational agricultural education, vocational home economics education, vocational trade and industrial education, and industrial arts education curricula are offered by the University through 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 Education and the College of Agriculture admit students to teacher-education programs 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 admission to teacher education. (A 2.50 cumulative grade-point average will be required for student teaching.)

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 teacher-education programs.

3. Students on University scholastic and attendance probation will not be admitted to teacher-education programs.

4. All students must have completed a minimum of three clock hours of counseling related to the student’s

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*Fashion Institute of Technology courses may be used as these electives.
suitability and aptitude for teaching and the availability of jobs both geographically and by subject major.

**REQUIREMENTS FOR STUDENT TEACHING**

1. 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 institutions(s) attended. Only work attempted at LSU will be used to compute the overall grade-point average.
2. Proficiency in English.
3. 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," page 65. In addition, in order to graduate in the various teacher education programs in the school, a student must earn an overall grade-point average of 2.50 in all work taken for degree credit.

**DEPARTMENTS AND CURRICULA**

**Department of Extension and International Education**

There is no specific curriculum for students interested in extension work as a career. Students who wish to become county agents or extension home economists should major in an area of their choice in agriculture or home economics. Professional courses in extension education are available at the junior-senior level as electives so that students may acquire knowledge about the fundamentals of extension education. Programs leading to the M.S. and Ed.D. degrees offered by the Department of Extension and International Education are available through the Graduate School.

For those interested in international agricultural education, an undergraduate curriculum is offered by the College of Agriculture.

**Department of Industrial and Technical Education**

The Department of Industrial and Technical Education offers four distinct services: (1) preparation of industrial arts teachers for elementary and secondary schools; (2) preparation of teachers for vocational-technical school subjects; (3) training industrial technicians; and (4) providing services to industry relative to employee training and supervisory and administrative development. In order to meet the demand by industry for employee in-service training and development, the department offers the following: advisory service in the matter of employee training, apprenticeship training, instructional analysis, development of instructional materials, and personnel relations in industry. In addition, upgrading courses are offered for supervisors and administrators.

This department also offers a program leading to the M.S. degree with a major in industrial education.

**CURRICULUM IN INDUSTRIAL ARTS EDUCATION**

**TOTAL SEM. HRS.: 134**

The curriculum in industrial arts education provides a program of courses essential to the intellectual and professional competence of the teacher. Specialized courses are provided in technical subjects and in a broad variety of other subjects which enable students to develop industrial skills essential for teaching laboratory subjects. Beyond these, students have an integrated program of professional, liberal, and elective courses which may be used to further their particular interests.

Successful completion of the curriculum leads to certification by the Louisiana Department of Education for those who want to teach industrial arts subjects.

<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>Engineering Graphics 1001, 2154</td>
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</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>English 2025</td>
<td>3</td>
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<tr>
<td>Botany 1001</td>
<td>4</td>
<td>Industrial Education 1011, 1021, 2012, 2022, 2051</td>
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<td>6</td>
<td>Physics 2001-2002, 2008-2009 or Chemistry</td>
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</tr>
<tr>
<td>Geography 1001, 1003 or History 1001, 1003 or social studies courses</td>
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<td>1001, 1002, 1004</td>
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</tr>
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<td>Industrial Education 1001, 1010</td>
<td>6</td>
<td>Approved HP&amp;RE electives</td>
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<tr>
<td>Mathematics 1021, 1022, or 1021, 1006</td>
<td>6</td>
<td>Electives or ROTC</td>
<td>36</td>
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<tr>
<td>Approved HP&amp;RE electives</td>
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</tr>
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<td>Electives or ROTC</td>
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<td></td>
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<tr>
<td></td>
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</tbody>
</table>
The curriculum in industrial technology with options is designed to prepare graduates for positions in industry requiring a working knowledge of industrial and technical skills and supervisory and administrative practices. Foundation courses are provided in mechanics, supplemented with courses in the social and physical sciences, mathematics, and the humanities.

**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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<td>Books and Libraries 1001</td>
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<td>Engineering Graphics 1001</td>
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<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Industrial Education 1001, 1010, 1011, 1021</td>
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</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
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<td><strong>TOTAL</strong></td>
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**JUNIOR YEAR**

<table>
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<tr>
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<tr>
<td>Industrial Education 2022, 2031, 2040</td>
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<tr>
<td>Industrial Engineering 4104, 4405</td>
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<tr>
<td>Speech 2060 or 2064</td>
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<tr>
<td>Electives</td>
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<td><strong>TOTAL</strong></td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1001, 1002, 1004</td>
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<td>Engineering Graphics 2154</td>
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<tr>
<td>English 2002</td>
<td>3</td>
</tr>
<tr>
<td>Industrial Education 2024, 2030, 2051</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics 1050</td>
<td>5</td>
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<tr>
<td>Approved basic social science or humanities</td>
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<td>Electives</td>
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<td>Electives or ROTC</td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
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</table>

**CURRICULUM IN INDUSTRIAL TECHNOLOGY (BUILDING MANAGEMENT OPTION)**

For first two years, see industrial technology curriculum.

**CURRICULUM IN INDUSTRIAL TECHNOLOGY (NUCLEAR SCIENCE OPTION)**

For first two years, see industrial technology curriculum.
## CURRICULUM IN INDUSTRIAL TECHNOLOGY
### (OCCUPATIONAL SAFETY AND HEALTH OPTION)

**TOTAL SEM. HRS.: 134**

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Books and Libraries 1001</td>
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<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>Industrial Education 1001, 1010, 1011, 1021</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>8</td>
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<td></td>
<td><strong>33</strong></td>
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### SOPHOMORE YEAR

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<th>Course</th>
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<tbody>
<tr>
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<td>English 2002</td>
<td>3</td>
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<tr>
<td>HP&amp;RE 1600</td>
<td>2</td>
</tr>
<tr>
<td>Industrial Education 2024, 2030, 2051</td>
<td>9</td>
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<tr>
<td>Speech 2064</td>
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<tr>
<td>Approved basic social science or humanities electives</td>
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<tr>
<td>Electives or ROTC</td>
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<tr>
<td></td>
<td><strong>35</strong></td>
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</tbody>
</table>

### TOTAL SEM. HRS.: 134

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## CURRICULUM IN VOCATIONAL TRADE AND INDUSTRIAL EDUCATION

This curriculum is planned for individuals with a background of industrial and/or military experience who are instructors or desire to become instructors in this field. State certification course requirements for this curriculum are the same as those for special secondary education teaching degrees. A student with trade, military, industrial, or technical experience may be granted—through an advanced-standing examination—a maximum of 30 sem. hrs. of credit toward degree requirements. Possible fields of certification are: wood, metal, electrical, and power mechanics. Prospective teachers of vocational trade and industrial subjects may be required to meet changes occurring in the state plan for vocational education.

### 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>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>Botany 1001</td>
<td>4</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE 1402, 1600</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1021, 1006, or 1009, 1010</td>
<td>6</td>
</tr>
<tr>
<td>History, geography, or approved social science electives</td>
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</tr>
<tr>
<td>Electives or ROTC</td>
<td>6</td>
</tr>
<tr>
<td></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>EDAF 2000</td>
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</tr>
<tr>
<td>English 2025 or 2027 and 2002</td>
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<tr>
<td>HP&amp;RE 2502</td>
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</tr>
<tr>
<td>Physics 2001-2002, 2008-2009 or</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 1001, 1002, 1212</td>
<td>8</td>
</tr>
<tr>
<td>VTIIE 2070, 2071</td>
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</tr>
<tr>
<td>Electives or ROTC</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

### TOTAL SEM. HRS.: 134

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## Department of Vocational Agricultural Education

This curriculum is designed to prepare students for teaching and supervising vocational agriculture in secondary schools. Broad general training is provided in plant and animal studies, agricultural economics, agricultural engineering, and farm mechanics. Professional training for teaching is given through courses in methods and techniques of training youth and adults in agriculture. During the senior year, students spend a student-teaching period in an agriculture department of a selected high school within the state where they participate in the activities of a vocational agriculture teacher under the supervision of the regular teacher and a member of the vocational agricultural education staff of the University. Students who major in other curricula of the college but who wish to meet certification requirements to teach
vocational agriculture should confer with the staff of the Department of Vocational Agricultural Education so that they may begin their special preparation not later than the beginning of the sophomore year.

Professional training in cooperative extension education is included in the course offerings of the Department of Vocational Agricultural Education. Students who wish to do agricultural agent work should major in the area of agriculture of their choice. Those interested in becoming extension home economists should major in the home economics area of their choice. Where possible, students who wish to become employees of agricultural extension should enroll in Extension Education 4010 to acquire basic knowledge about cooperative extension work in agriculture.

This department also offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees, each with a major in vocational agricultural education.

CURRICULUM IN VOCATIONAL AGRICULTURAL EDUCATION

TOTAL SEM. HRS.: 135

Recommended Electives: Agricultural Economics 4001, 4015; Agricultural Mechanization 2066, 3082; Agronomy 3002, 3003, 4008, 4052; Animal Science 2071, 3040, 3053; Dairy Science 2075; and Horticulture 2061, 4021, 4096.

Approved Social Science Electives: Must include at least 3 sem. hrs. of American history.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
<td>1</td>
<td>Agricultural Mechanization 2059</td>
</tr>
<tr>
<td>Agronomy 1021</td>
<td>3</td>
<td>Agronomy 2051</td>
</tr>
<tr>
<td>Animal Science 1011</td>
<td>3</td>
<td>Biology 1001, 1002</td>
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<tr>
<td>Chemistry 1001, 1002</td>
<td>6</td>
<td>Dairy Science 1048</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>EDAF 2000</td>
</tr>
<tr>
<td>Mathematics 1011-1012</td>
<td>6</td>
<td>Entomology 2001</td>
</tr>
<tr>
<td>Approved HP&amp;RE electives</td>
<td>2</td>
<td>Poultry Science 1049</td>
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<tr>
<td>Approved social science electives</td>
<td>6</td>
<td></td>
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<tr>
<td>Electives or ROTC</td>
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<td></td>
</tr>
<tr>
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<td>35</td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
</tr>
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<tbody>
<tr>
<td>Agricultural Mechanization 2065</td>
<td>3</td>
<td>Agricultural Economics 4015</td>
</tr>
<tr>
<td>Animal Science 2098</td>
<td>3</td>
<td>Agronomy 4005</td>
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<tr>
<td>English 2002</td>
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<td>EDCI 3135, 3136</td>
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<tr>
<td>Forestry 3051</td>
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<td>Veterinary Science 3001, 3002</td>
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<td>Horticulture 2050</td>
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<td>VAEd 3018, 3019, 3020, 4016</td>
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<td>Psychology 2078</td>
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<td>VAEd 3017, 3095</td>
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<tr>
<td>Approved social science electives</td>
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<tr>
<td>Electives</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>34</td>
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</tr>
</tbody>
</table>

Department of Vocational Home Economics Education

The vocational home economics education curriculum administered by the Department of Vocational Home Economics Education is designed to meet all requirements for certification for teaching home economics in Louisiana secondary schools. During the senior year, each student spends a period teaching in a home economics department of a secondary school approved by the University faculty and the State Department of Education. The student teacher is a participating teacher under the supervision of the regular home economics teacher and a member of the University faculty.

This department also offers a graduate program leading to the Master of Science degree.

CURRICULUM IN VOCATIONAL HOME ECONOMICS EDUCATION

TOTAL SEM. HRS.: 134

Electives: Six semester hours of ROTC may be taken as free electives. Approved social science electives must be selected from history, geography, political science, economics, and anthropology. Suggested electives include EDAF 3500 and Speech 1050, 1061, or 2060.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
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<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
<td>Chemistry 2060</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
<td>Economics 2030 or Agricultural Economics 2075</td>
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<tr>
<td>HP&amp;RE (activity courses)</td>
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<td>EDAF 2000</td>
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<td>Home Economics 1010, 1032, 1040</td>
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### Freshman Year (continued)

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Electives: 34

### Sophomore Year (continued)

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<tr>
<th>Course</th>
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<td>Home Economics 2015, 2035</td>
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<td>Microbiology 2051</td>
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<td>Psychology 2060</td>
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<td>VHEE 2001</td>
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Electives: 34

### Junior Year

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<tr>
<td>Home Economics 2016, 2055, 4010, 4050</td>
<td>12</td>
</tr>
<tr>
<td>Home Economics 4036 or 4037</td>
<td>3</td>
</tr>
<tr>
<td>Interior Design 3721 or 3722</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2078</td>
<td>3</td>
</tr>
<tr>
<td>VHEE 3001</td>
<td>3</td>
</tr>
<tr>
<td>Approved education reading course electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved English electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved HP&amp;RE electives</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives: 35

### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 3135</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 3060 or 3061</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 4065, 4066</td>
<td>6</td>
</tr>
<tr>
<td>VHEE 3003, 4001, 4002</td>
<td>14</td>
</tr>
<tr>
<td>Approved social science electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Electives: 32
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, mathematics and 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 with a major and a minor. 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 welfare, and professional curricula in journalism and geology. The teaching divisions within the college, the various curricula, and the degrees which are offered are shown in the chart on the following page.

ADMISSION REQUIREMENTS

Students will be eligible for admission to the College of Arts and Sciences if they have earned (1) at least 24 or more semester hours and (2) a grade-point average of at least 2.00 ("A" = 4) in all work undertaken.
*Both the Bachelor of Arts and the Bachelor of Science may be earned in geography and in psychology.*
Junior Division students who expect to enter the college should consult the publication entitled *This is Junior Division* for the freshman year schedules recommended by individual departments of this college.

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.

**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 for a final degree checkout during the semester *prior to the semester* in which the degree is to be awarded.

**DEGREE REQUIREMENTS OF THE COLLEGE**

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 of 128 to 136 semester hours of degree credit.
3. A grade-point average of not lower than 2.00 (“A” = 4), both in all work undertaken and in work undertaken at LSU, including the major field, and in the major field considered separately.
4. A minimum of 64 semester hours in courses numbered 2000 or above.
5. A minimum of 30 semester hours in courses numbered 3000 or above.
6. A minimum of nine semester hours in residence in the major field, including at least six semester hours in courses numbered 3000 or above.
7. 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 hours) will be taken in residence in this college on the Baton Rouge campus.
8. At least a “C” in English 1002. Students who have not taken English 1002 before entering the college must take the course during their first semester in the college. Students must earn a grade of “C” or better in English 1002 by the end of their second semester in the college.
9. Proficiency in English. Students whose grade in English 1002 is lower than “B” will take an English proficiency test during their first semester after having completed English 1002. Those who do not pass this test will have two semesters (beginning the next semester they are enrolled after the test is given) to demonstrate English proficiency in the English Writing Laboratory. *Students who fail to demonstrate proficiency in English by the end of their second semester in the laboratory will be dropped from the college.* Although a grade of “A” or “B” in English 1002 or a passing grade on the proficiency test 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.

**FOREIGN LANGUAGE REQUIREMENT**

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, such students should be
guided by the following table, with adjustment to be made in case transfer credits are above the beginning level:

<table>
<thead>
<tr>
<th>SEM. HRS. OF TRANSFER CREDIT</th>
<th>ENTER COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-2</td>
<td>1001</td>
</tr>
<tr>
<td>3-7</td>
<td>2051</td>
</tr>
<tr>
<td>8-11</td>
<td>2053</td>
</tr>
<tr>
<td>12-14</td>
<td>2055</td>
</tr>
</tbody>
</table>

Students whose native language is not English and who did not graduate from an American or English high school may satisfy the foreign language requirement in one of these 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.)

**CURRICULAR REQUIREMENTS**

By its very nature, liberal education allows the student a wide choice of subjects. For that reason it is not feasible to specify a list of courses to be taken in any of the four years of the curricula leading to the degree of Bachelor of Arts or Bachelor of Science. With the aid of a faculty adviser, students plan their programs in accordance with their own interests, so long as the programs fulfill the basic requirements explained in the following paragraphs.

The college has divided its subjects of study into the following three groups:

**Group I—Humanities**

<table>
<thead>
<tr>
<th>Chinese</th>
<th>German</th>
<th>Romance Languages (French, Italian, Portuguese, Spanish)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classical Languages (Latin, Greek)</td>
<td>Journalism</td>
<td>Music</td>
</tr>
<tr>
<td>English</td>
<td>Philosophy</td>
<td>Speech</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Group II—Mathematics and Natural Sciences**

<table>
<thead>
<tr>
<th>Astronomy</th>
<th>Geology</th>
<th>Physics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany</td>
<td>Mathematics</td>
<td>Zoology</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Microbiology</td>
<td></td>
</tr>
</tbody>
</table>

**Group III—Social Sciences**

<table>
<thead>
<tr>
<th>Anthropology</th>
<th>History</th>
<th>Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
<td>Political Science</td>
<td>Sociology</td>
</tr>
<tr>
<td>Geography</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Major Field Requirements**

Candidates for a degree in the college will choose one of these groups in which to do the major part 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 to satisfy the 128-hour requirement for the degree. Departmental requirements for a major are given by department in the section of this catalog entitled "Departments and Courses of Instruction." Requirements for students in this college who wish to major in chemistry or physics are given below.

Students may pursue double majors in the college. Both majors must be offered by departments in the college. Students pursuing a double major 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.
Group Requirements

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.
   a. English: Freshman English and English 2020 and 2022 or 2025 and 2027.
   b. Foreign language: through course 2055.
   c. Courses in Group I other than English or foreign languages: 6 semester hours.

2. Group II—a minimum of a year-course in a single biological science, plus a year-course in a single physical science. Either the biological science or the physical science must include at least two semester hours of laboratory.

3. Group III—courses in three subjects for a total of 15 hours including at least 6 hours of history.


Bachelor of Arts (Social Sciences)

1. Group I
   a. English: Freshman English and English 2020 and 2022 or 2025 and 2027.
   b. Foreign language: through course 2053 (except anthropology, which requires 2055).
   c. Courses in Group I other than English or foreign languages: 6 semester hours.

2. Group II—a minimum of a year-course in a single biological science, plus a year-course in a single physical science. Either the biological science or the physical science must include at least two semester hours of laboratory.

3. Group III—at least 48 semester hours, but not more than 85 semester hours for degree credit; courses in three subjects, including at least 6 hours of history.


Bachelor of Science (Mathematics and Natural Sciences)

1. Group I
   a. English: Freshman English and English 2020 and 2022 or 2025 and 2027.
   b. Foreign language: through course 2053.
   c. Courses in Group I other than English or foreign languages: 6 semester hours.

2. Group II—at least 48 semester hours, but not more than 85 semester hours for degree credit.
   a. At least 5 hrs. in mathematics selected from courses numbered 1021 or above.
   b. A minimum of a year-course in a single biological science, plus a year-course in a single physical science. Either the biological science or the physical science must include at least two semester hours of laboratory.

3. Group III—courses in three subjects for a total of 15 hours, including at least 6 hours of history.


Bachelor of Science (Psychology or Geography)

For purposes of major only, psychology or geography may be considered as a Group II subject, 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.

PREPROFESSIONAL EDUCATION IN MEDICAL SCIENCES

Early in their college career, students who intend to enter a professional school of dentistry, medicine, optometry, osteopathy, pharmacy, physical therapy, or any of the various branches of medical technology should examine the current catalog of the school of their choice for specific admission requirements. The college will help students select suitable preprofessional courses.

Students intending to apply to schools of medical technology which have no college affiliation or which require four years of college study for admission may select a science major in the college and include the
following courses to make a total of 48 hours in Group II (these courses also fulfill the admission requirements of most of AMA-approved schools): Math 1021 and 1022 or 1050; Chemistry 1201, 1202, 1212, 2251, 2252; and a minimum of 12 hours of biology, which may be taken in biology, microbiology, parasitology, physiology, anatomy, histology, embryology, or zoology. (For a combined four-year degree program in medical technology—three years of undergraduate studies plus a fourth year in the School of Medicine—see the "College of Chemistry and Physics," page 137.)

**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 the School of Pharmacy at Northeast Louisiana University. 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.

*These pre-pharmacy requirements are for Northeast Louisiana University only. For requirements of other pharmacy schools, consult the appropriate catalogs.*

<table>
<thead>
<tr>
<th>SEM.</th>
<th>HRS.</th>
<th>Mathematics 1023 and 1031 or 1041; or 1050</th>
<th>SEM.</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 2001</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Botany 1001</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212, 2261, 2262, 2364.</td>
<td>16</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Economics 2030</td>
<td>3</td>
<td>Electives (approved by the college) to make a total of 68-74 sem. hrs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HP&amp;RE courses</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>68-74</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Optometry**

Students with a 2.00 average and at least 60 semester hours may be eligible for admission 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 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 the College of Arts and Sciences.

*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 in order to plan their programs accordingly.*

<table>
<thead>
<tr>
<th>SEM.</th>
<th>HRS.</th>
<th>Mathematics 1021, 1022; or 1023 or 1050</th>
<th>SEM.</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>5-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English 1001, 1002; and 2020, 2022; or 2025, 2027</td>
<td>12</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign languages—through 2053</td>
<td>3-13</td>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History courses</td>
<td>6</td>
<td>Electives (approved by the college) to make a total of 60-68 sem. hrs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>60-68</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Medicine and Dentistry**

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. The suggested pre-medical and pre-dental options for students majoring in microbiology or zoology are outlined below.

**CURRICULUM IN MICROBIOLOGY**

(SUGGESTED PRE-MEDICAL AND PRE-DENTAL OPTION)

TOTAL SEM. HRS.: 128

The program must include 30 semester hours of courses at the 3000 level or above. Microbiology 2051 and 16 additional hours of microbiology courses, including 12 hours in courses numbered 3000 or above, are required for graduation.
**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>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023; or 1050</td>
<td>5-6</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEM. HRS.**

31-32

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2261, 2262</td>
<td>8</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>
<td>4</td>
</tr>
<tr>
<td>Approved humanities or social sciences</td>
<td>3</td>
</tr>
<tr>
<td>courses*</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2252</td>
<td>2</td>
</tr>
<tr>
<td>Microbiology 4122, 4146</td>
<td>6</td>
</tr>
<tr>
<td>Approved microbiology electives**</td>
<td>2-3</td>
</tr>
<tr>
<td>Approved humanities or social sciences</td>
<td>12</td>
</tr>
<tr>
<td>courses*</td>
<td>10</td>
</tr>
<tr>
<td>Approved electives***</td>
<td>32-33</td>
</tr>
</tbody>
</table>

**CURRICULUM IN ZOOLOGY**

**SUGGESTED PRE-MEDICAL OPTION**

**TOTAL SEM. HRS.: 128**

This program must include 30 hours of courses at the 3000 level or above. Students choosing zoology as their major field for the B.S. degree must complete a minimum of 30 semester hours in the department. The number of free electives is dependent on placement in mathematics, English, and foreign language courses.

**Approved Humanities or Social Sciences Courses**: A four-year program must include 6 hours in Group I courses other than English and foreign languages, and 15 hours in three subjects in Group III including at least 6 hours of history.

**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>Chemistry 1201, 1202</td>
<td>6</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023; or 1050</td>
<td>5-6</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Approved humanities or social sciences*</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
</tbody>
</table>

**SEM. HRS.**

32-33

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1212, 2261, 2262</td>
<td>8</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>Zoology 2152, 2153</td>
<td>7</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2252 or a laboratory course in</td>
<td>2</td>
</tr>
<tr>
<td>biochemistry</td>
<td></td>
</tr>
<tr>
<td>Approved humanities or social sciences</td>
<td>12</td>
</tr>
<tr>
<td>courses*</td>
<td></td>
</tr>
<tr>
<td>Approved zoology electives—at least 7 hrs.</td>
<td>7-8</td>
</tr>
<tr>
<td>must be in a 4000-level course with lab</td>
<td></td>
</tr>
<tr>
<td>Approved Group I, II, or III electives to</td>
<td>9</td>
</tr>
<tr>
<td>complete 128 hrs.</td>
<td></td>
</tr>
</tbody>
</table>

**CURRICULUM IN ZOOLOGY**

**SUGGESTED PRE-DENTAL OPTION**

**TOTAL SEM. HRS.: 128**

This program must include 30 hours of courses at the 3000 level or above. Students choosing zoology as their major field for the B.S. degree must complete a minimum of 30 semester hours in the department. The number of free electives is dependent on placement in mathematics, English, and foreign language courses.
Students who plan to enter the LSU School of Dentistry in the fall of 1981 must have had 12 hours of biological sciences which include comparative anatomy or embryology lecture and laboratory. In addition, they must have 4 hours of credit in histology with laboratory.

**Approved Humanities or Social Sciences Courses:** A four-year program must include 6 hours in Group I courses other than English and foreign languages and 15 hours in three subjects in Group III including at least 6 hours of history.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry 1201, 1202</td>
<td>6</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023; or 1050</td>
<td>5-6</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Approved humanities or social sciences courses</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32-33</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1212, 2261, 2262</td>
<td>8</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>Zoology 2152, 2153</td>
<td>7</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoology 4104</td>
<td>4</td>
</tr>
<tr>
<td>Approved humanities or social sciences courses</td>
<td>9</td>
</tr>
<tr>
<td>Approved zoology electives—at least 7 hrs. must be in a 4000 level course with lab</td>
<td>7-8</td>
</tr>
<tr>
<td>Approved Group I, II, or III electives to complete 128 hrs.</td>
<td>10</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**ADDITIONAL CURRICULA**

**Professional Undergraduate Degree Programs**

The degree of Bachelor of Arts in Journalism is offered through the School of Journalism (see p. 115). The degree of Bachelor of Science in Geology is offered through the School of Geoscience (see p. 113).

**Bachelor of Arts (Chemistry or Physics)**

The degree awarded to the student majoring in chemistry or physics in the College of Arts and Sciences is the Bachelor of Arts—to distinguish it from the professional Bachelor of Science degree offered in the College of Chemistry and Physics. The student will major in Group II and fulfill the specific requirements for the Bachelor of Science degree as listed below.

A student who elects chemistry as the major field will take the following courses:

a. Mathematics through course 1052;


c. Chemistry (either group):
   1. 1201, 1202, 1212, 2251, 2252, 2261, 2262, 2463, 4491, 4492, 4493, and one advanced elective (either 4551, 4552, 4553, 4562, 4570, or Biochemistry 4393)—total = 32-33 hours.
   2. 1421, 1422, 1431, 1432, 2261, 2262, 2463, 4491, 4492, 4493, 4552, 4553, and one advanced elective (either 4551, 4562, 4570, or Biochemistry 4393)—total = 34 hours.

d. Additional mathematics and physics courses are recommended.

A student who wishes to elect physics as the major field will take the following courses: Math 1050, 1052, 2057, 2085 (or 2065), and a three-hour course numbered above 4014; Chemistry 1201, 1202, 1212; and Physics 1201-1202, 1208-1209 (or 2101-2102, 2108-2109), 2209, 2221, 4132, 4141, 4142, 4198, and 4135 or 4125 or 4122.

**Bachelor of Science (Astronomy)**

A student who wishes to elect astronomy as the major field for the Bachelor of Science degree will take the following courses: Math 1050, 1052, 2057, 2065; Computer Science 2262; Physics 1201-1202, 1208-1209, 2111, 2209, 2221, 2231, 4132, 4135, 4198, 4251; and Astronomy 1111-1112, 4261, 4221-4222.
COMBINED CURRICULA

CURRICULUM IN ARTS AND SCIENCES—MEDICINE OR DENTISTRY

Pre-medical or pre-dental 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 pre-medical or pre-dental 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.

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.

CURRICULUM IN ARTS AND SCIENCES—SOCIAL WELFARE

The College of Arts and Sciences and the School of Social Welfare offer a combined curriculum leading to the Bachelor of Arts degree in the College of Arts and Sciences. A student who has completed the requirements listed below and has spent at least two semesters as a full-time student and the last 30 semester hours in residence in the College of Arts and Sciences may choose to substitute the first year’s work in the School of Social Welfare for the senior year in the college.

The student who follows this combined curriculum must fulfill all requirements for the Bachelor of Arts degree in social sciences, as previously specified, and should begin work toward the completion of a major field in order to have an alternate route to a bachelor’s degree if admission to the School of Social Welfare is denied. This student should select Group III to meet group requirements and should complete from 30 (minimum) to 55 (maximum) semester hours in this group. Permission will then be granted to use the first year of the social welfare curriculum, not to exceed 30 semester hours, for the senior year in the college. Upon successful completion of the first year in the School of Social Welfare, the student may apply for and receive the degree of Bachelor of Arts awarded by the College of Arts and Sciences ("Successful completion" means unconditional completion and eligibility to continue in the School of Social Welfare without being on any kind of probation).

Only those students who enter the University with exceptionally good preparation and maintain a high level of performance in their college work (a grade-point average of at least 3.00) should plan to follow this curriculum. Before transferring to the School of Social Welfare, the student must have completed a minimum of 103 semester hours from the courses listed below:

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>Social welfare courses, including 2000 and 3003</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology 4053 or 4081; or Sociology 4511; or English 4174</td>
<td>3</td>
<td>Sociology courses, including 2001 and excluding 4511 (6 sem. hrs. at 3000-level or above)</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>Year-course in a biological and year-course in a physical science, one of which must include laboratory</td>
</tr>
<tr>
<td>English 1001, 1002, and 2020, 2022 or 2025, 2027</td>
<td>12</td>
<td>Courses in Group I other than English or foreign language</td>
</tr>
<tr>
<td>Experimental Statistics 4001; Psychology 2011, or Sociology 2201</td>
<td>3-4</td>
<td>Electives to total a minimum of 103 sem. hrs.</td>
</tr>
<tr>
<td>Foreign language through course 2053</td>
<td>3-13</td>
<td></td>
</tr>
<tr>
<td>History electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Political science or economics elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Psychology courses, including 2000 (6 sem. hrs. at 3000-level or above)</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ELECTIVES

A student in the College of Arts and Sciences may elect for degree credit any course offered by the following departments or schools:

Administrative and Foundational Services
Aerospace Studies
Art
Biochemistry
Botany
Chemistry
Computer Science
Curriculum and Instruction
Economics
English
Entomology

Environmental Studies
Experimental Statistics
Foreign Languages
Geography and Anthropology
Geology
History
Human Development
Journalism
Mathematics
Microbiology
Military Science
Music
Nuclear Science
Philosophy
Physics and Astronomy
Plant Pathology and Crop Physiology
Political Science
Psychology
Social Welfare
Sociology
Speech
Zoology and Physiology

*Completion of the three-year under graduate portion of the combined curricula does not assure acceptance into the professional schools of the LSU System.*
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 the departments not listed above, students may elect courses for which they have the prerequisites. Nine semester hours of elective credit in such courses may be counted toward graduation from this college.

CORRESPONDENCE, EXTENSION, AND 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 in residence may take courses by correspondence only in exceptional cases and with specific approval of the dean of the college.

Students who have been in military service receive credit for such service on the following basis:

1. A student who has completed four months of continuous full-time active military duty will be granted one semester hour of credit in ROTC for such service on presentation of satisfactory evidence. Two semester hours of credit will be allowed for six months of continuous full-time active military duty. A student who has completed this service and who chooses to take two years of basic ROTC shall receive a combined total of not more than six semester hours of credit.

2. For longer periods of military service, credit is allowed at the rate of one semester hour per each additional three months of continuous active duty service, not to exceed 12 semester hours.

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 two months prior to registration.

Division of Honors and Interdisciplinary Studies

HERBERT B. ROTHSCILD, JR., Director
244B Allen Hall

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 gifted 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, adviser, and departmental advisory faculty.

Participation in the division supplements, but does not replace, work in a major field. Credits earned in division courses may be substituted in some cases for required courses (e.g., freshman English). Otherwise, they are counted as elective credits. Division and departmental advisers will assist in assuring the full translation of honors courses into the requirements of the major curriculum.

PARTICIPATION IN THE HONORS PROGRAM

Prior to matriculation, students are invited to participate in the freshman-level honors courses on the basis of their ACT performance. For spring semester, performance during the preceding fall becomes the criterion for admission or retention. Participants will schedule Arts and Sciences 1001/1003 in the fall and
Arts and Sciences 1002/1004 in the spring. The honors life sciences sequence, Arts and Sciences 1007/1008, is an optional offering.

After the freshman year, honors students entering the College of Arts and Sciences may follow a curriculum that leads to graduation "with college honors" (see below). Honors students who enter other colleges and students in this college who are unable to complete the entire curriculum leading to graduation "with college honors," may schedule the upper-level honors seminars on a space-available basis.

The upper-level seminars are interdisciplinary in content and 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.

**ADMINISTRATION AND COUNSELING**

A director, assisted by an adviser, is in charge of the records and counseling of students in the division. Additionally, each department in the college has an honors adviser to help students plan their curricula and design their senior-year independent work.

**GRADUATION WITH COLLEGE HONORS**

To graduate "with college honors," a student must meet the following requirements:

a. take Arts and Sciences 1001/1003 and 1002/1004;
b. take at least four arts and sciences honors seminars after the freshman year;
c. enroll in departmental honors courses where possible;
d. register in a curriculum offered in the College of Arts and Sciences;
e. complete a foreign language through course 2055;
f. complete a curriculum of courses totaling 128 hours approved by the department concerned and by the director and the faculty of the division, and developed on the principles of the general curriculum of the college—the purpose of which is to afford students liberal education and to broaden their learning to include (besides the major field) historical and political studies, the biological and physical sciences, the humanities, and the arts;
g. demonstrate competence in a major field by writing a senior essay, doing independent research, and/or taking a special oral examination (in accordance with the recommendation of the department chairman, with the approval of the director and the faculty);
h. maintain (after the freshman year) at least a 3.33 ("A" = 4) grade-point average.

**HONORS COURSES**

Besides courses offered through the Division of Honors and Interdisciplinary Studies (see page 308), other honors courses are offered through various departments, as follows:

- Anthropology 1002, 1004, 4999
- English 1003, 2021, 2023, 2026, 2028, 2925, 2927, 2929, 3000, 3820, 3821, 3822, 3823
- French 2052, 2054, 2056
- Geography 1002, 1004, 4999
- Geology 1002, 1004
- History 1002, 1004, 2056, 2058, 3100, 3109, 3110
- Journalism 4093
- Math 1051, 1053, 2058, 2086
- Philosophy 2034, 2036, 2952, 2953, 2963, 2964, 2965, 3901, 3902
- Political Science 3896, 3897
- Psychology 2001
- Spanish 2052, 2054, 2056
- Speech 1021, 1062, 2862
- Zoology 1003

**School of Geoscience**

RAY E. FERRELL, JR., Director
331 Geology Building

The School of Geoscience, founded in 1931 as the School of Geology, emphasizes studies of the earth, man, and the interrelationships between them. Academic programs are provided through the Department of Geography and Anthropology and the Department of Geology. Courses embrace cultural and physical anthropology; cultural-historical and physical geography, including climatology and meteorology; and
physical and historical geology, including paleontology, mineralogy-petrology, and geochemistry.

Within the school, the Museum of Geoscience provides exhibits in the areas of geoscience and anthropology; curates archeologic, mineralogic, and paleontologic collections; and sponsors research in these areas. The school maintains the Geoscience Map Library—a comprehensive collection of over 350,000 maps, photographs, and other reference collections—and sponsors an active publication program, including the series Geoscience and Man and Mélanges. The cartographic unit provides drafting, photographic, and artistic support for teaching and research.

Major facilities within the School of Geoscience include a computer substation and graphics center with a flat-bed plotter and cathode ray tube; a scanning electron microscope and analytical probe; diffraction and fluorescent x-ray equipment, mass spectrometer, atomic absorption unit, and other geochemical equipment; and an experimental flume.

Opportunities for academic and research activities are available through the Latin American Studies Institute and the Organization for Tropical Studies. A cooperative research program is operated within the Louisiana Geological Survey. Faculty and students also conduct research under the auspices of the Gulf Universities Research Consortium, Gulf South Research Institute, and the following LSU organizations: Coastal Studies Institute, Institute for Environmental Studies, Louisiana Water Resources Research Institute, and Division of Engineering Research.

TYPES OF COURSES OFFERED

Anthropology

Anthropology courses may be used to meet Group III (social sciences) requirements in the College of Arts and Sciences. Anthropology is available as an undergraduate major field or as a major in Graduate School leading to the M.A. degree. Anthropology courses also supplement the programs in linguistics and Latin American studies.

Geography

Geography is available as a major field for students who elect either the social sciences (B.A.) or mathematics and natural sciences (B.S.) curriculum in the College of Arts and Sciences or as a major in Graduate School leading to the M.A., M.S., or Ph.D. degree. Completion of selected courses in geography and related subjects qualify students for government and private employment in cartography, map intelligence, environmental impact studies, planning, and many other fields. The requirements for a major in geography are outlined in the "Department and Courses of Instruction" section of this catalog.

Geology

Geology is available as a major field for students who elect the mathematics and natural sciences curriculum in the College of Arts and Sciences. In addition, a four-year professional course, outlined below, is offered to students who are prospective geologists. Graduate students may major in geology for the M.S. or Ph.D. degree.

Geoscience

Undergraduate and graduate students majoring in anthropology, geography, or geology may obtain a general background in geoscience and human ecology by judicious selection of electives in the other two fields.

SPECIAL DEGREE REQUIREMENTS IN GEOLOGY

The following special requirements apply to all students following curricula in geology:

a. the student must earn a grade of "C" or better in Geology 1001, 1003 or 2003, 1601, 1602, 2661, and 2666 to be eligible to register for geology courses numbered above 3000;

b. for graduation, the student must have earned an average of not less than 2.00 in all geology courses taken;

c. a grade of "C" or better in Mathematics 1021 and 1022 is required for registration in Geology 2661 and all higher geology courses;

d. students who are on scholastic probation may not schedule either Geology 2666 or 3666.
CURRICULUM

CURRICULUM IN GEOLOGY (PROFESSIONAL)

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<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 or 2003, 1006, 1601, 1602</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>0-6</td>
</tr>
<tr>
<td>Approved Group III electives</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>0-2</td>
</tr>
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</table>

TOTAL HRS.: 27-35

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 2001 or 2002</td>
<td>3</td>
</tr>
<tr>
<td>Geology 2071, 3011, 3012, 4041</td>
<td>16</td>
</tr>
<tr>
<td>Physics 2101, 2102, 2108, 2109</td>
<td>8</td>
</tr>
<tr>
<td>Modern language (course 2053)</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTAL HRS.: 28-36

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology 2081, 2082, 2661, 2666</td>
<td>11</td>
</tr>
<tr>
<td>Mathematics 1050, 1052</td>
<td>10</td>
</tr>
<tr>
<td>Modern language (courses 1001, 2051)</td>
<td>0-10</td>
</tr>
<tr>
<td>Electives</td>
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</tr>
</tbody>
</table>

TOTAL HRS.: 21-35

SUMMER (FOLLOWING SOPHOMORE YEAR)

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology 3666</td>
<td>6</td>
</tr>
</tbody>
</table>

TOTAL HRS.: 6

SENIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology 4031</td>
<td>3</td>
</tr>
<tr>
<td>Approved Group I electives—excluding English courses numbered 2027 or below and modern language courses numbered 2053 or below</td>
<td>6</td>
</tr>
<tr>
<td>Approved Group II electives—including engineering and physical geography courses</td>
<td>9</td>
</tr>
<tr>
<td>Approved Group III electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>4-12</td>
</tr>
</tbody>
</table>

TOTAL HRS.: 28-36

*The exact number of free elective hours varies in accordance with the variable number of hours gained in meeting the requirements in such subjects as English, foreign languages, mathematics, etc., but a total of 136 hours is required for graduation. Electives in the freshman and sophomore years may include a total of 6 sem. hrs. of basic ROTC. A maximum of 6 sem. hrs. of advanced ROTC is acceptable for elective credit.

School of Journalism

RONALD G. HICKS, Director
222 Journalism Building

Instruction in journalism was first offered at LSU in 1912, and the present School of Journalism was created in 1927. The school’s news-editorial and advertising curricula are fully accredited by the American Council on Education for Journalism.

Facilities of the school include general-purpose classrooms and special laboratory facilities, a typewriting room, and a typography laboratory with photocomposition equipment; students also have access to video-display terminals. Photojournalism students are provided with cameras and darkroom. Advertising students have a laboratory equipped with layout tables. Students in broadcasting are provided with motion picture cameras and film-editing facilities; studio and control room facilities of the Instructional Resources Center are utilized by students in broadcasting and advertising. News-editing classes have copy desks and use wire service copy. Audiovisual equipment is available for general classroom use. The journalism reading room contains a representative selection of newspapers, trade journals, and industrial publications. A basic reference collection is also maintained.

DEGREE REQUIREMENTS OF THE SCHOOL

The degree of Bachelor of Arts in Journalism is conferred on students who complete one of the undergraduate journalism curricula with a grade-point average of at least 2.00 on all academic work taken. An average of at least 2.00 is also required for all journalism courses taken. Of the 128 hours required, no more than 33 may be in journalism courses. In addition, students must offer a minor of at least 18 hours in one subject other than journalism or participate in one of the school’s programs of recommended electives.
Journalism is also available as a major field for students selecting the humanities curriculum in the College of Arts and Sciences.

Journalism students are expected to be proficient in the use of English. (See "Degree Requirements of the College," page 105.) Proficiency in typewriting is also required. This proficiency should be acquired before students enroll in their first reporting course. All journalism writing assignments must be typewritten.

**OBJECTIVES AND CURRICULA**

Journalism is a profession concerned with gathering and disseminating news, ideas, and information of a timely nature, thereby serving the communication needs of a free society. Three curricula are offered: news-editorial, advertising, and broadcast journalism. Their common purpose is to offer the student a broad liberal education, first, and then to provide theoretical and practical knowledge and skills in mass communication. The school insists on high ethical standards, believing that a true professional must always be aware of social responsibility.

The specific objective of the news-editorial curriculum is to produce graduates with skills in investigating, interpreting, and communicating factual information to mass audiences of print media. Typically, graduates of this curriculum become newspaper reporters and editors or wire service correspondents.

The specific objective of the advertising curriculum is to produce graduates with skills in creating and placing commercial messages for the mass media. Typically, graduates of this curriculum become copywriters, layout artists, account executives, or buyers and sellers of time and space in the mass media.

The specific objective of the broadcast journalism curriculum is to produce graduates with skills in investigating, interpreting, and communicating factual information to mass audiences of broadcast media. Typically, graduates of this curriculum become reporters, photographers, and editors of broadcast news.

Journalism students gain considerable practical experience to supplement classroom instruction. As part of various course requirements, students work on news and advertising assignments for The Daily Reveille and the campus radio station, WPRG. In addition, students in advanced reporting courses acquire experience on the Baton Rouge Morning Advocate and State-Times and also with various local radio and television stations.

**CURRICULUM IN ADVERTISING**

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.: 128</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRESHMAN YEAR</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
</tr>
<tr>
<td>English 1001, 1002</td>
</tr>
<tr>
<td>Foreign language (at least 3 sem. hrs.)</td>
</tr>
<tr>
<td>History 1001, 1003 or Geography 1001, 1003</td>
</tr>
<tr>
<td>Electives or ROTC</td>
</tr>
<tr>
<td>Approved science electives</td>
</tr>
<tr>
<td>Approved electives</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUNIOR YEAR</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
</tr>
<tr>
<td>English 1001, 1002</td>
</tr>
<tr>
<td>Foreign language (at least 3 sem. hrs.)</td>
</tr>
<tr>
<td>Approved Group 1 electives (other than English, foreign language, or journalism)</td>
</tr>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
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</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
</tr>
<tr>
<td>Foreign language through course 2053</td>
</tr>
<tr>
<td>Electives or ROTC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CURRICULUM IN BROADCAST JOURNALISM</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL SEM. HRS.: 128</td>
</tr>
<tr>
<td>FRESHMAN YEAR</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
</tr>
<tr>
<td>English 1001, 1002</td>
</tr>
<tr>
<td>Foreign language (at least 3 sem. hrs.)</td>
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</tbody>
</table>

(Continued column 1 next page)
### CURRICULUM IN NEWS-EDITORIAL

**TOTAL SEM. HRS.: 128**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>Accounting 2001</td>
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<tr>
<td>English 1001, 1002</td>
<td>3-6</td>
<td>English 2020, 2022; or 2025, 2027</td>
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</tr>
<tr>
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<td>3-10</td>
<td>Foreign language through course 2053</td>
<td>0-3</td>
</tr>
<tr>
<td>History 1001, 1003 or Geography 1001, 1003</td>
<td>6</td>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2-3</td>
<td>Journalism 2090, 2151</td>
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<tr>
<td>Approved science electives</td>
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### JOURNALISM EXTENSION SERVICE

Headquarters of the Journalism Extension Service are located in the Journalism Building. The director of the extension service maintains liaison between the school and the professional scholastic news media of the state.
The College of Business Administration offers professional training in several areas of business specialization 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 insure 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 endeavor. 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 Association of Collegiate Schools of Business. Its undergraduate programs have been accredited continuously by the association since 1931.

ADMISSION REQUIREMENTS

Students may enter the College of Business Administration from Junior Division, by transfer from another division of the University, or by transfer from another accredited college or university.

From Junior Division—Students may be admitted to the college from Junior Division if (1) they have completed a minimum of 24 semester hours with a grade-point average of 2.00 or better on all work undertaken, and (2) they have received a grade of "C" in English 1002 or English 1005. In addition, students must have a 2.00 average in all business administration courses numbered 2000 and above. Students should pursue the freshman program shown in the appropriate curriculum.

Transfer Students—Students transferring from other divisions of the University, and students from other accredited colleges or universities who have met the general entrance requirements of the University and who have pursued a college course equivalent to that offered in Junior Division, may be admitted to the college on the same basis as 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.

The college may decline to accept transfer credits for any course in which a grade lower than "C" has been received. Credit will not be allowed for business courses completed at the lower-division level that are offered at the junior or senior level in this college.

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; (2) a 2.00 or better grade-point average on all work in the student's curriculum; and (3) a 2.00 or better grade-point average on all business administration courses taken.

The last 30 semester hours presented for the degree must be taken in residence in the College of Business Administration on the Baton Rouge campus.

The student must complete 128 semester hours in accordance with the following regulations.

Academic Work, 128 Semester Hours, to be Selected as Follows

GENERAL EDUCATION REQUIREMENTS:

1. English Composition and Speech (9 hrs.): English 1002 or 1003; 3 sem. hrs. of English courses numbered 2000 or above; Speech 1061 or 1062. 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 adviser 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 a general elective in category 5 below.

2. Mathematics and Computer Science (9 hrs.): Computer Science 1240, 1241 or 1270; Math 1031, 1035. Math 1050 may be substituted for 1031 and Math 2085 may be substituted for 1035. Students majoring in quantitative methods should refer to their specific curriculum.

3. Natural Science (6 hrs.): Astronomy 1101, 1102; Biology 1001, 1002; Botany 1001, 1002; Chemistry 1001, 1002 or 1201, 1202; Geology 1001, 1003; Physics 1003-1004 or 2001-2002 or 2101-2102; or Zoology 1001, 1002.


5. Approved General Electives (20 hrs.): Students should choose 20 semester hours of coursework from the following lists, except where otherwise specified in the curriculum. A minimum of six semester hours must be taken from List A.

   List A: anthropology, economics (Econ. 1010 or 1050), English, fine arts, geography, history, modern languages, music, philosophy, political science, psychology, sociology, speech.

   List B: astronomy, biochemistry, biology, botany, chemistry, computer science, engineering, geology, mathematics, microbiology, physics, zoology.
6. 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 (21 hrs.): Accounting 2001 and 2101 or 3101 or 2021; Economics 2035; Finance 3201; Management 2071; Quantitative Methods 2000, 2001.
2. Functional Areas (9 hrs.): Finance 3715; Management 3115; Marketing 3401.
3. General (6 hrs.): Business Administration 3190; Management 3159.
4. Major Field (24 hrs.): See curricular requirements.
5. Approved Business Electives (6 hrs.): Courses numbered 3000 or above.

ELECTIVE OPTIONS:
Students should choose twelve hours, of which six hours may be inside the college and six hours must be outside the college (six of the outside hours may be ROTC or four hours may be HP&RE or band or chorus).

PROFICIENCY IN USE OF THE ENGLISH LANGUAGE:
To meet the English proficiency requirements, students must receive a grade of “B” or above in English 1002, 1003, or 1005. Students whose grade in English 1002, 1003, or 1005 is lower than a “B” will take an English proficiency examination during their first semester in the College of Business Administration. Students who do not pass this test, or who fail to take the test, must report to the English Proficiency Laboratory for guidance no later than the beginning of their second semester in the college. Students who fail to demonstrate proficiency in the use of English by the end of their third semester in the college will be dropped from the college.

ROTC or Health, Physical, and Recreation Education
Up to six semester hours in ROTC may be elected. Health, physical, and recreation education courses are not required of either men or women; however, up to four semester hours of HP&RE activity courses or band or chorus will be accepted for degree credit in any curriculum. Students who do not elect ROTC will be required to make up the number of hours necessary to meet the curriculum requirements by taking additional courses outside this college.

Students may elect additional courses in ROTC, HP&RE, or other subjects by adding the number of hours of elective subjects to the curricular requirements. These additional courses may not be counted toward making up deficiencies in the grade-point average.

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
Upon receiving senior status, the student will complete a personal data form and return it to the dean’s office. A photograph and the personal data form should be submitted early in the student’s final semester prior to graduation.

REQUIREMENTS FOR A SECOND BACHELOR’S DEGREE
To receive a second bachelor’s degree in this college, students must complete—with a 2.50 grade-point average—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, and at least two semesters in residence as a full-time student.
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 unusual 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 special 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 Methods and the Law Center cooperate in offering this interdepartmental degree program.

DEPARTMENTS AND CURRICULA

General Business Administration

<table>
<thead>
<tr>
<th>CURRICULUM IN GENERAL BUSINESS ADMINISTRATION</th>
<th>TOTAL SEM. HRS.: 128</th>
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<td>Accounting 2001, 2101**</td>
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<td>Natural science (Astronomy 1101, 1102; Biology 1001, 1002; Botany 1001, 1002; Chemistry 1001, 1002 or 1201, 1202; Geology 1001, 1003; Physics 2001-2002 or 2101-2102; or Zoology 1001, 1002)</td>
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30

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<td>Finance 3201, 3715</td>
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<td>Management 3115, 3159</td>
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<td>Marketing 3401</td>
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*If ROTC is elected, see "Degree Requirements of the College," page 120.
***To be selected from offerings of at least four of the following: Departments of Accounting, Economics, Finance, Management, Marketing, and Quantitative Methods.


**CURRICULUM IN GENERAL BUSINESS ADMINISTRATION (OPTION IN PRE-LAW)**

TOTAL SEM. HRS.: 128

For first two years, see General Business Administration curriculum.

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<th>JUNIOR YEAR</th>
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<td><strong>Economics</strong> 2035</td>
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<td>Finance 3826</td>
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<td><strong>History</strong> 2071</td>
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<td>Management 4164 or 4167</td>
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**Department of Accounting**

**CURRICULUM IN ACCOUNTING**

TOTAL SEM. HRS.: 128

For first two years, see General Business Administration curriculum.

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<th>SENIOR YEAR</th>
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<td>Business Administration 3190</td>
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**Department of Economics**

**CURRICULUM IN BUSINESS AND PUBLIC ADMINISTRATION**

TOTAL SEM. HRS.: 128

For first two years, see General Business Administration curriculum.

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**CURRICULUM IN ECONOMICS**

TOTAL SEM. HRS.: 128

For first two years, see General Business Administration curriculum.

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<td><strong>Management</strong> 3115, 3159</td>
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<tr>
<td><strong>Marketing</strong> 3401</td>
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<td>Electives</td>
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<td>Economics electives</td>
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### CURRICULUM IN INTERNATIONAL TRADE AND FINANCE

**TOTAL SEM. HRS.: 128**

*For first two years, see General Business Administration curriculum.*

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**CURRICULUM IN TRANSPORTATION**

**TOTAL SEM. HRS.: 128**

*For first two years, see General Business Administration curriculum.*

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<td>Economics 4210, 4430, 4460, 4550</td>
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<td>Political Science 2051</td>
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### Department of Finance

### CURRICULUM IN COMMERCIAL BANKING

**TOTAL SEM. HRS.: 128**

*For first two years, see General Business Administration curriculum.*

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<td>Management 3115, 3159</td>
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### CURRICULUM IN FINANCE

**TOTAL SEM. HRS.: 128**

*For first two years, see General Business Administration curriculum.*

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<td>Electives</td>
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<td>Electives</td>
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</tbody>
</table>

### CURRICULUM IN REAL ESTATE

**TOTAL SEM. HRS.: 128**

*For first two years, see General Business Administration curriculum.*

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 2035</td>
<td>3</td>
<td>Business Administration 3190</td>
<td>3</td>
</tr>
<tr>
<td>Finance 3201, 3351, 3440, 3715</td>
<td>12</td>
<td>Finance 3352, 3636, 3826</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>(Continued column 1 next page)</td>
</tr>
</tbody>
</table>
Management 3115, 3159 ........................................... 6
Marketing 3401 ................................................. 3
Approved general electives .................................... 5
Electives ........................................................... 3

Marketing 3413 ..................................................... 3
Major field electives to be selected from courses in
accounting, economics, and/or finance except
Economics 4310 .................................................. 6
Approved general electives .................................... 3
Electives ........................................................... 6

CURRICULUM IN RISK AND INSURANCE
TOTAL SEM. HRS.: 128

For first two years, see General Business Administration curriculum.

Department of Management

CURRICULUM IN INDUSTRIAL MANAGEMENT
TOTAL SEM. HRS.: 128

For first two years, see General Business Administration curriculum.

CURRICULUM IN MANAGEMENT AND ADMINISTRATION
TOTAL SEM. HRS.: 128

For first two years, see General Business Administration curriculum.

Department of Marketing

CURRICULUM IN MARKETING
TOTAL SEM. HRS.: 128

For first two years, see General Business Administration curriculum.
**Department of Office Administration**

**CURRICULUM IN OFFICE ADMINISTRATION**

TOTAL SEM. HRS.: 128

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 1240 or 1270</td>
<td>3</td>
</tr>
<tr>
<td>English 1002 or 1003</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1031, 1035</td>
<td>6</td>
</tr>
<tr>
<td>Natural science (Astronomy 1101, 1102; Biology 1001, 1002; Botany 1001, 1002; Chemistry 1001, 1002 or 1201, 1202; Geology 1001, 1002; Physics 2001-2002 or 2101-2102; or Zoology 1001, 1002)</td>
<td>6</td>
</tr>
<tr>
<td>Office Administration 2000</td>
<td>3</td>
</tr>
<tr>
<td>Speech 1061 or 1062</td>
<td>3</td>
</tr>
<tr>
<td>Approved general electives</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
</tbody>
</table>

33

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 2001, 2101</td>
<td>6</td>
</tr>
<tr>
<td>Economics 2010, 2020</td>
<td>6</td>
</tr>
<tr>
<td>English 2010</td>
<td>3</td>
</tr>
<tr>
<td>Office Administration 2001, 2100</td>
<td>6</td>
</tr>
<tr>
<td>Quantitative Methods 2000, 2001</td>
<td>6</td>
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<tr>
<td>Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

33

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 2035</td>
<td>3</td>
</tr>
<tr>
<td>Finance 3201, 3715</td>
<td>6</td>
</tr>
<tr>
<td>Management 2071, 3115, 3159</td>
<td>9</td>
</tr>
<tr>
<td>Marketing 3401</td>
<td>3</td>
</tr>
<tr>
<td>Office Administration 2101, 3000</td>
<td>6</td>
</tr>
<tr>
<td>Approved general electives</td>
<td>6</td>
</tr>
</tbody>
</table>

33

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management 3190</td>
<td>3</td>
</tr>
<tr>
<td>Office Administration 3100, 3101, 3500</td>
<td>9</td>
</tr>
<tr>
<td>Business administration electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved general electives</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>9</td>
</tr>
</tbody>
</table>

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**Department of Quantitative Methods**

The Department of Quantitative Methods offers three options in this curriculum. The business administration option is designed for those students whose interest is primarily in business applications of quantitative techniques. The management science option is oriented toward providing a more extensive background in the fundamentals of science and mathematics. This option provides an excellent foundation for those who anticipate graduate work in business or quantitative methods. The computer science option is for those students who wish to emphasize utilization of the computer in administrative decision-making.

**Approved electives (List Q) are as follows:**

- Computer Science 2252, 3371, 4101, 4102, 4103, 4304, 4321, 4354, 4355:
- Industrial Engineering 4382, 4453, 4511, 4540:
- Mathematics 2065, 4016, 4023, 4031, 4032, 4153, 4171, 4172:
- Quantitative Methods 3070, 4000, 4010, 4011, 4012, 4013, 4021, 4031. **No more than 6 sem. hrs. may be taken in courses outside the Department of Quantitative Methods.**

**CURRICULUM IN QUANTITATIVE METHODS (BUSINESS ADMINISTRATION OPTION)**

TOTAL SEM. HRS.: 128

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 1240 or 1241</td>
<td>3</td>
</tr>
<tr>
<td>English 1002 or 1003</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1031, 1035*</td>
<td>6</td>
</tr>
<tr>
<td>Natural science (Astronomy 1101, 1102; Biology 1001, 1002; Botany 1001, 1002; Chemistry 1001, 1002 or 1201, 1202; Geology 1001, 1002; Physics 2001-2002 or 2101-2102; or Zoology 1001, 1002)</td>
<td>6</td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 2001</td>
<td>3</td>
</tr>
<tr>
<td>Accounting 2021 or 2101</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 1251 or 3371</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2010, 2020</td>
<td>6</td>
</tr>
</tbody>
</table>
(Freshman Year, continued)

1001, 1002; Botany 1001, 1002; Chemistry 1001, 1002 or 1201, 1202; Geology 1001, 1003; Physics 2001-2002 or 2101-2102; or Zoology 1001, 1002.

Speech 1061 or 1062 ................................................... 3
Approved general electives* ........................................... 5
Electives** .................................................................... 3

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JUNIOR YEAR SEM. HRS.
Economics 2035 .......................................................... 3
Finance 3201, 3715 .................................................... 6
Management 3115, 3159 .............................................. 6
Marketing 3401 .......................................................... 3
Quantitative Methods 3000, 4020 ............................... 6
Approved electives (List Q) .......................................... 3
Approved general electives ........................................... 6

33

*It is highly recommended that students majoring in quantitative methods substitute Math 1050, 2085 for Math 1031, 1035. The additional 2 sem. hrs. required may be counted as approved general electives.

**If ROTC is elected, see "Degree Requirements of the College," page 120.

CURRICULUM IN QUANTITATIVE METHODS (COMPUTER SCIENCE OPTION)

TOTAL SEM. HRS.: 128

FRESHMAN YEAR SEM. HRS.
Computer Science 1240 or 1241 ................................... 3
English 1002 or 1003 .................................................. 3
Mathematics 1031, 1035* ............................................... 6
Natural science (Astronomy 1101, 1102; Biology 1001, 1002; Botany 1001, 1002; Chemistry 1001, 1002 or 1201, 1202; Geology 1001, 1003; Physics 2001-2002 or 2101-2102; or Zoology 1001, 1002) .................................................. 6
Speech 1061 or 1062 .................................................... 3
Approved general electives* ........................................... 5
Electives** .................................................................... 3

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SOPHOMORE YEAR SEM. HRS.
Accounting 2001 ....................................................... 3
Accounting 2021 or 2101 ............................................. 3
Computer Science 1251, 2252 ....................................... 6
Economics 2010, 2020 .................................................. 6
English course numbered 2000 or above ................. 3
Management 2071 ..................................................... 3
Quantitative Methods 2000, 2001 ............................ 6
Electives** .................................................................... 3

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JUNIOR YEAR SEM. HRS.
Economics 2035 .......................................................... 3
Finance 3201, 3715 .................................................... 6
Management 3115, 3159 .............................................. 6
Marketing 3401 .......................................................... 3
Quantitative Methods 3000, 4020 ............................... 6
Approved electives (List Q) .......................................... 3
Computer science electives ........................................... 3
Approved general electives ........................................... 3

33

*It is highly recommended that students majoring in quantitative methods substitute Math 1050, 2085 for Math 1031, 1035. The additional 2 sem. hrs. required may be counted as approved general electives.

**If ROTC is elected, see "Degree Requirements of the College," page 120.

CURRICULUM IN QUANTITATIVE METHODS (MANAGEMENT SCIENCE OPTION)

TOTAL SEM. HRS.: 128

FRESHMAN YEAR SEM. HRS.
Biology 1001, 1002, 1003, 1004 or 1008 or Zoology 1001, 1002 .................................................. 8

(Continued column 1 next page)
The Division of Research is organized as an integral part of the College of Business Administration. Its functions are to: furnish information on current business and economic conditions and other matters of business interest in Louisiana; prepare bulletins on business and economic problems which affect the economy of Louisiana; study Louisiana’s industrial and commercial resources with special reference to the location of industry and development of trade, both foreign and domestic; provide facilities for special studies at a minimum cost to business concerns that desire a scientific analysis of their policies, practices, and problems; develop materials for use in teaching specialized courses in economics, accounting, finance, management, marketing, and office administration; provide training for students in business research; and provide encouragement and facilities for research by individual faculty members.

The Louisiana Business Review, published by the Division of Research, is a monthly summary of business conditions in Louisiana. The Review, published since 1937, is sent to hundreds of cooperating business concerns, governmental agencies, and libraries throughout the country. In 1942, a program of compiling Consumer Price Indexes was begun. These indexes are published semiannually, except for the New Orleans index which is published quarterly.

All organized research of the college is carried on through the Division of Research. The results of the studies of different aspects of the Louisiana economy made by various business administration faculty members are published from time to time in Louisiana business bulletins.

**If ROTC is elected, see "Degree Requirements of the College," page 120.

DIVISION OF RESEARCH

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PLACEMENT SERVICE

The College of Business Administration maintains a professionally staffed placement service designated as the Center for Engineering and Business Administration Placement Office. Interviews are conducted throughout the year. The major concern of the placement office is to assist both students and alumni in finding positions in line with their career objectives.

LOUISIANA COUNCIL ON ECONOMIC EDUCATION

The Louisiana Council on Economic Education is a non-profit organization dedicated to improving the understanding of economics among the citizens of Louisiana. Housed in the Department of Economics, the council conducts workshops on teaching strategies and materials, creates audio-visual materials, and sponsors an awards program for Louisiana teachers who develop and implement innovative lessons.
The College of Chemistry and Physics offers preparation for careers in biochemistry, chemistry, computer science, physics, astronomy, medicine, and the allied health professions. 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.

<table>
<thead>
<tr>
<th>DEPARTMENTS</th>
<th>CURRICULA</th>
<th>DEGREES</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLLEGE OF CHEMISTRY AND PHYSICS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biochemistry</td>
<td>Biochemistry (with option)</td>
<td>Bachelor of Science</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Basic Chemistry (with options)</td>
<td></td>
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<tr>
<td>Computer Science</td>
<td>Computer Science</td>
<td></td>
</tr>
<tr>
<td>Physics and Astronomy</td>
<td>Physics (with options)</td>
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<tr>
<td>Allied Health Programs*</td>
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<tr>
<td>Dental Hygiene</td>
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<tr>
<td>Medical Record Administration</td>
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<tr>
<td>Occupational Therapy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Therapy</td>
<td></td>
<td></td>
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<tr>
<td>Radiologic Technology</td>
<td></td>
<td></td>
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<tr>
<td>Rehabilitation</td>
<td></td>
<td></td>
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<tr>
<td>Counseling</td>
<td></td>
<td></td>
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<tr>
<td>Respiratory Therapy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cytotechnology</td>
<td></td>
<td>Bachelor of Science in Cytotechnology</td>
</tr>
<tr>
<td>Medical Technology</td>
<td></td>
<td>Bachelor of Science in Medical Technology</td>
</tr>
</tbody>
</table>

*The allied health program is a two-year core pre-professional curriculum which will prepare students for entry into the professional or clinical years of most programs leading to B.S. degrees in the allied health fields. LSU offers the degrees of Bachelor of Science in Medical Technology and Bachelor of Science in Cytotechnology jointly with the School of Allied Health Professions of the LSU Medical Center.
Students in the college may choose curricula which provide pre-medical preparation; appropriate programs of study leading to a career in medicine are included in curricula in biochemistry, the curriculum in basic chemistry with an option in life sciences, the curriculum in physics with a life sciences option, and the curriculum in computer science with a life sciences option. 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 degree 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

From Junior Division

Students in Junior Division 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; and
3. passed all courses in mathematics and science with a grade of "C" or better or received special approval of the dean of the college.

Transfer Students

Students transferring 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 obtained only with the 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 the student professional training in an area of concentration. An integral part of all curricula is the requirement of broad exposure to the humanities and/or social studies. In most cases a reading knowledge of one modern foreign language is required. Work in these areas amounts to more than one-fourth of the student's formal degree requirements.

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 entitled, Miscellaneous Regulations Regarding Courses Taken for Credit in the College of Chemistry and Physics.
1. All students must complete a program of study established by the department concerned, approved by the faculty and the dean of the college.
2. There is no curriculum in the college which requires less than 128 semester hours; some curricula require more.
Students in all degree programs of the college, except medical technology and cytotechnology, must earn at least 24 of the last 30 semester hours offered toward their degrees as registrants in the College of Chemistry and Physics at LSU. Students in the medical technology and cytotechnology curricula must earn at least 24 of the last 30 semester hours of credit as registrants in this college prior to entering their senior year.

3. Students in all degree programs of the college must earn in residence on the Baton Rouge campus at least 18 of the hours offered toward their degrees in courses offered by departments in the College of Chemistry and Physics. In all degree programs, except medical technology and cytotechnology, at least nine of these 18 hours must be in courses numbered above 3000 and offered by the department administering the major program. Students in medical technology must earn at least six of these 18 hours in courses designated as allied health. Students in cytotechnology may include up to six hours of advanced life science or mathematics courses among the 18 hours in courses offered by departments in the College of Chemistry and Physics.

4. The foreign language requirement for students whose native language is not English and who did not attend an American or English high school may be satisfied by one of the following options:
   (a) complete curricular foreign language requirements in a language other than English or their native language;
   (b) pass a minimum of nine semester hours in courses in their native language numbered above 2070;
   (c) pass nine hours of English above the minimum curricular requirement.

5. The foreign language requirement for all curricula except biochemistry may be satisfied with any modern foreign language. In the basic biochemistry curriculum, either French, German, or Russian must be taken. In the preprofessional biochemistry curriculum, any modern foreign language or Latin may be taken to satisfy the foreign language requirement.

6. All students in the college must have a grade-point average of at least 2.00 on all work undertaken.

7. All courses specified by number in science (including computer science) and mathematics, all approved electives in these areas, English 1002 or 1003, and all approved option electives must have been passed with a grade of "C" or better. A student who makes a "D" or an "F" in a course in which a minimum grade of "C" is required must register for that course again (and may not drop the course) in the next term in which the student is in residence and the course is offered. Exceptions may be made only with approval of the dean.

8. The elective work in most degree programs in the college must include 18 semester hours of social sciences and/or humanities. Exceptions are the computer science program, which requires 15 hours, and the medical technology and cytotechnology programs, which require 12 hours. In meeting the total elective requirements, not more than 12 semester hours numbered below 2000 may be elected for degree credit from the social science/humanities areas. Only three hours of participation (activity) courses in music may be offered toward fulfillment of the social science/humanities requirement.

9. Nonparticipation courses in HP&RE may be taken for elective credit. A maximum of three semester hours will be allowed in HP&RE participation (activity) courses. Students taking three or more hours of basic ROTC courses may not also count toward their degree credits obtained in HP&RE participation (activity) courses. Twelve semester hours of ROTC, with a maximum of six semester hours of the 12 in basic ROTC, may be allowed for degree credit.

10. At all times every student in the college is expected to make reasonable and satisfactory progress in a degree program. Consequently, sequential scheduling of courses in some disciplines is always the case, and required courses in English and mathematics must be scheduled each semester until they are satisfactorily passed. All students should realize that, if necessary, a required course may be dropped once with the approval of the dean, but, normally, not a second time.

11. 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.

**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 Chemistry and Physics, and earn 30 semester hours beyond the work offered for the degree requiring the lesser number of hours.
PASS-FAIL OPTION

Students may take courses in the College of Chemistry and Physics on a pass-fail basis under the following conditions.

For Students in the College of Chemistry and Physics

1. Only students with a 3.00 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 Arts and Sciences honors courses (A&S 1001, 1002, etc.) 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, 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.

For Students in Other Colleges on Campus

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. Note: Courses offered by the College of Chemistry and Physics 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.

COURSE NUMBERING SYSTEM

For courses within the College of Chemistry and Physics, the second digit of the four-digit course number has the following significance:

<table>
<thead>
<tr>
<th>Second Digit</th>
<th>Significance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Not for undergraduate credit for majors</td>
</tr>
<tr>
<td>1</td>
<td>Not for graduate credit for majors</td>
</tr>
<tr>
<td>7</td>
<td>Repetitive credit permitted</td>
</tr>
<tr>
<td>8</td>
<td>Pass-fail grading, repetitive credit permitted</td>
</tr>
<tr>
<td>9</td>
<td>Independent study or research, repetitive credit permitted</td>
</tr>
</tbody>
</table>

DEPARTMENTS AND CURRICULA

Department of Biochemistry

The curricula of the Department of Biochemistry 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.

A second and equally vital function of the department is the organized research program in fundamental areas of biochemistry.

CURRICULUM IN BIOCHEMISTRY

TOTAL SEM. HRS.: 134

*Electives: Four of the total semester hours of electives must be in biological sciences; 18 must be in social sciences and humanities. Free electives in the freshman and sophomore years may include a total of 6 semester hours of basic ROTC.*
Department of Chemistry

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. Any second area may be chosen, provided that education in depth is planned through the option. This program will permit emphasis in many areas where a need for 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 possible.

Students who complete certain options in the basic chemistry curriculum are certified as chemists by the American Chemical Society at the time of their graduation.
CURRICULUM IN BASIC CHEMISTRY (WITH OPTIONS)
TOTAL SEM. HRS.: 134

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. Eighteen of the elective hours must be in social sciences and humanities, exclusive of the English and foreign language requirements. Free electives in the freshman and sophomore years may include a total of 6 sem. hrs. of basic ROTC.

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 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1050, 1052</td>
<td>10</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
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<tr>
<td>33</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>Chemistry 1432, 2261, 2262, 2463</td>
<td>11</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>5</td>
</tr>
<tr>
<td>Physics 2101-2102, 2108-2109</td>
<td>8</td>
</tr>
<tr>
<td>Approved electives</td>
<td>10</td>
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<tr>
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</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 course numbered above 2000 or Speech 2060</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>5</td>
</tr>
<tr>
<td>Approved electives</td>
<td>14</td>
</tr>
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</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>
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</tr>
<tr>
<td>Approved electives</td>
<td>29</td>
</tr>
<tr>
<td>33</td>
<td></td>
</tr>
</tbody>
</table>

*With the dean's approval, Chemistry 1202, 1212 may be substituted for Chemistry 1422, 1431.

Option for Students Preparing for Graduate Study in Chemistry

SOPHOMORE YEAR: Mathematics 2065 or 2085 or 2090 (3-4 sem. hrs.); Computer Science 1241 (3 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 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 6 sem. hrs. representing two areas of chemistry selected from Chemistry 3900, 4554, 4561, 4582, 4594, 4595, 4596, and Biochemistry 4393; approved physics electives (3 sem. hrs.)—select from Physics 2221, 2231, 4132, 4135, 4141, and 4142.

Students completing this option will receive American Chemical Society certification.

Department of Computer Science

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 can apply to graduate schools in computer science or, in some cases, in the discipline of the 24-hour approved elective group.

CURRICULUM IN COMPUTER SCIENCE
TOTAL SEM. HRS.: 132

The 57 sem. hrs. of electives in this curriculum must be distributed as follows:

Humanities and Social Sciences (15 sem. hrs.): Must be selected from courses in the social sciences or humanities, exclusive of the English, economics, and foreign language requirements for the degree.

Approved Elective Group (24 sem. hrs.): Must constitute an approved option; any second area may be chosen, with consent of the dean, provided that education in depth is planned through the option. Up to six of these 24 hrs. may be taken in computer science courses in instances where hours remaining permit in-depth study in the option.

Electives (15 sem. hrs.): May be any course conforming to the general requirements of the College of Chemistry and Physics. Electives in the freshman and sophomore years may include a total of 6 sem. hrs. of basic ROTC.

Computer Science Elective (3 sem. hrs.): Must be one of the following computer science courses: CSc 4304, 4351, 4360, 4362, 4365, 4368, 4444, 4890.
<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 1240 or 1241: 1251</td>
<td>6</td>
<td>Computer Science 2252, 2259, 2280</td>
<td>9</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English course numbered above 2000 or</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1050, 1052</td>
<td>10</td>
<td>Economics 2030</td>
<td></td>
</tr>
<tr>
<td>Physics 1201-1202 or Chemistry 1201, 1202 (students not qualifying for Math 1050 in the first semester may take Physics 2101-2102 in the sophomore year)</td>
<td>6</td>
<td>Speech 2060</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
<td>Mathematics 2090</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td>Approved electives</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>JUNIOR YEAR</td>
<td>SEM. HRS</td>
<td>SENIOR YEAR</td>
<td>SEM. HRS</td>
</tr>
<tr>
<td>---------------</td>
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</tr>
<tr>
<td>Computer Science 4101, 4102, 4103</td>
<td>9</td>
<td>Computer science elective</td>
<td>3</td>
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<tr>
<td>Foreign language courses</td>
<td>10</td>
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<td>30</td>
</tr>
<tr>
<td>Industrial Engineering 4302,* 4510**</td>
<td>6</td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>Computer Science 2263***</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved electives</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

*Students who have completed the prerequisites may substitute Math 4055 or Quantitative Methods 4000.
**Students who have completed the prerequisites may substitute Math 4056, Quantitative Methods 4020, or Electrical Engineering 4640.
***Students who have completed the prerequisites may substitute Mechanical Engineering 4533 or Math 4065.

Department of Physics and Astronomy

The Department of Physics and Astronomy offers undergraduate students a program in physics with options. There is a central core of coursework 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 the approval of the dean of the college and a faculty adviser 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 need for 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.

CURRICULUM IN PHYSICS (PHYSICS OPTION)
TOTAL SEM. HRS.: 128

Electives: Six of the total semester hours of electives must be chosen from physics courses numbered above 3000; 6 sem. hrs. must be mathematics courses numbered above 3000 (or may include Math 2085); and 18 sem. hrs. must be in social sciences and humanities, exclusive of the English and foreign language requirements of the curriculum. Students planning to enter graduate school should select either French, German, or Russian as their foreign language. The remaining 18 sem. hrs. are free electives. Free electives in the freshman and sophomore years may include a total of 6 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>Chemistry 1201, 1202</td>
<td>6</td>
<td>Computer Science 2262</td>
<td>3</td>
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<tr>
<td>English 1001, 1002</td>
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<td>3</td>
</tr>
<tr>
<td>Mathematics 1050, 1052</td>
<td>10</td>
<td>Speech 2060</td>
<td></td>
</tr>
<tr>
<td>Physics 1201-1202, 1208-1209</td>
<td>8</td>
<td>Mathematics 2057, 2065</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
<td>Physics 2111, 2209, 2221, 2231</td>
<td>13</td>
</tr>
<tr>
<td></td>
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<td>Approved electives</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>31</td>
</tr>
<tr>
<td>JUNIOR YEAR</td>
<td>SEM. HRS</td>
<td>SENIOR YEAR</td>
<td>SEM. HRS</td>
</tr>
<tr>
<td>---------------</td>
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<td>----------</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
<td>Physics 4399</td>
<td>3</td>
</tr>
<tr>
<td>Physics 4132, 4141-4142, 4198</td>
<td>12</td>
<td>Mathematics electives</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics electives</td>
<td>3</td>
<td>Physics electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
<td>Approved electives</td>
<td>21</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

CURRICULUM IN PHYSICS (ASTRONOMY OPTION)
TOTAL SEM. HRS.: 128

Electives: Six of the total semester hours of electives must be chosen from physics courses numbered above 3000; 3 sem. hrs. must be mathematics courses numbered above 3000 (or may include Math 2085); and 18 sem. hrs. must be in...
social sciences and/or humanities, exclusive of the English and foreign language requirements of the curriculum. Students planning to enter graduate school should select either French, German, or Russian as their foreign language. The remaining 14 sem. hrs. are free electives. Free electives in the freshman and sophomore years may include a total of 6 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>Astronomy 1111, 1112</td>
<td>6</td>
<td>Computer Science 2262</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English course numbered above 2000 or</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1050, 1052</td>
<td>10</td>
<td>Speech 2060</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1201-1202, 1208-1209</td>
<td>8</td>
<td>Mathematics 2057, 2065</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
<td>Physics 2111, 2209, 2221, 2231</td>
<td>13</td>
</tr>
<tr>
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<td>33</td>
<td>Approved electives</td>
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<th>SEM. HRS.</th>
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<tr>
<td>Astronomy 4261</td>
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<td>Astronomy 4221-4222</td>
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<td>Foreign language courses</td>
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<td>Physics 4251</td>
<td>3</td>
</tr>
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<td>Physics 4132, 4135, 4198</td>
<td>9</td>
<td>Physics electives</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics electives</td>
<td>3</td>
<td>Approved electives</td>
<td>21</td>
</tr>
<tr>
<td>Physics electives</td>
<td>3</td>
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</tbody>
</table>

**CURRICULUM IN PHYSICS (OPTION IN PHYSICS AND A SECOND DISCIPLINE)**

**TOTAL SEM. HRS.: 128**

**Electives:** Six of the total semester hours of electives must be chosen from physics courses numbered above 3000; at least 25 sem. hrs. must be from an approved discipline outside the department (any second area may be chosen with consent of the dean and a departmental faculty adviser); and 18 sem. hrs. must be in social sciences and/or humanities, exclusive of the English and foreign language requirements of the curriculum. Students planning to enter graduate school should select either French, German, or Russian as their foreign language. The remaining 17 sem. hrs. are free electives. Free electives in the freshman and sophomore years may include a total of 6 sem. hrs. of basic ROTC.

<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>
<td>English 1001, 1002</td>
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<td>Computer Science 2262</td>
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<td>Mathematics 1050, 1052</td>
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<td>Physics 1201-1202, 1208-1209</td>
<td>8</td>
<td>Speech 2060</td>
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<tr>
<td>Approved electives</td>
<td>6</td>
<td>Mathematics 2065</td>
<td>3</td>
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<tr>
<td></td>
<td>30</td>
<td>Physics 2111, 2209, 2221, 2231</td>
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<tr>
<td></td>
<td></td>
<td>Approved electives</td>
<td>9</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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<tr>
<td>Foreign language courses</td>
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<td>Physics electives</td>
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<tr>
<td>Physics 4132, 4198</td>
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<td>Physics electives</td>
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<td></td>
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</tbody>
</table>

**Allied Health Programs**

The College of Chemistry and Physics offers a two-year core pre-professional curriculum which will prepare students to enter the professional or clinical years of most programs leading to the bachelor's degree in the allied-health fields. For any additional requirements, students should consult the catalog of the particular school to which they plan to apply. The curriculum shown below is especially appropriate for the areas of cytotechnology, dental hygiene, medical record administration, medical technology, occupational therapy, physical therapy, radiologic technology, and respiratory therapy. A separate curriculum is shown for rehabilitation counseling. LSU offers the final two (clinical or professional) years of Bachelor of Science degree programs in occupational therapy, physical therapy, rehabilitation counseling, and respiratory therapy through the LSU School of Allied Health Professions in New Orleans and in dental hygiene through the LSU School of Dentistry in New Orleans. Admission to the junior year of these programs is on a competitive basis, upon submission of a written application. See information on the degrees of Bachelor of Science in Medical Technology and Bachelor of Science in Cytotechnology following "Special Area Requirements" below.

**PRE-PROFESSIONAL CURRICULUM**

Electives must include 6 sem. hrs. of social sciences and/or humanities. Free electives in the freshman and sophomore years may include a total of 6 sem. hrs. of basic ROTC.
Special Area Requirements

CYTOTECHNOLOGY, 17 SEM. HRS.: Chemistry 2261, 2262, 2364; Microbiology 2051; Zoology 2153, 2154.

DENTAL HYGIENE, 12 SEM. HRS.: Chemistry 2060; Economics 2303; Sociology 2001; Speech 2060.

MEDICAL RECORD ADMINISTRATION, 12 SEM. HRS.: Computer Science 1240; English course numbered above 2000; Office Administration 2000; Speech 2060.

MEDICAL TECHNOLOGY, 16 SEM. HRS.: Chemistry 2261, 2262, 2364; Microbiology 2051; Physics 2001, 2008.


RADIOLOGIC TECHNOLOGY, 14 SEM. HRS.:* Chemistry 2060; Computer Science 1240; Physics 2001, 2002, 2008, 2009. (Professional years not presently offered in the LSU System.)

RESPIRATORY THERAPY, 16-17 SEM. HRS.: Microbiology 2051; Physics 2001, 2002, 2008, 2009; Zoology 2152 or 3156 or Chemistry 2060, 2364.

PRE-PROFESSIONAL CURRICULUM IN REHABILITATION COUNSELING

Electives must include at least 15 sem. hrs. of social sciences and humanities.

 CURRICULA IN MEDICAL TECHNOLOGY AND CYTOTECHNOLOGY

The degrees of Bachelor of Science in Medical Technology and Bachelor of Science in Cytotechnology are offered through the College of Chemistry and Physics and the School of Allied Health Professions of the LSU Medical Center. These curricula include three years of study at LSU in Baton Rouge and a fourth full calendar year of study in a hospital affiliated with the LSU Medical Center. Admission to the senior year is on a competitive basis. These degrees require a minimum of 132 semester hours, of which at least 96 must be earned prior to entering the senior year. Students planning to enter either of these areas should schedule the following courses in the third year of the respective curricula. Approved electives must include 6 semester hours of social sciences and/or humanities.

Medical Technology

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR (LSU MEDICAL CENTER)</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allied Health 2155, 2157, 3258</td>
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<td>MTEC 4101 (Clinical Hematology-I)</td>
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<tr>
<td>Biochemistry 4087</td>
<td>3</td>
<td>MTEC 4102 (Clinical Microscopy)</td>
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</tr>
<tr>
<td>Chemistry 2251</td>
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<td>MTEC 4110 (Clinical Microbiology-I)</td>
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<tr>
<td>Microbiology 4121</td>
<td>4</td>
<td>MTEC 4111 (Clinical Microbiology-II)</td>
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</tr>
<tr>
<td>Physics 2002, 2009</td>
<td>4</td>
<td>MTEC 4112 (Clinical Microbiology-III)</td>
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</tr>
<tr>
<td>Zoology 4104, 4105 or Microbiology 4122 or Nuclear Science 4101 or Computer Science 1240 or Biochemistry 4001</td>
<td>3-4</td>
<td>MTEC 4113 (Clinical Chemistry-I)</td>
<td>6</td>
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<tr>
<td>Approved electives</td>
<td>5-6</td>
<td>MTEC 4114 (Clinical Chemistry-II)</td>
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<tr>
<td>Approved electives</td>
<td>32</td>
<td>MTEC 4117 (Clinical Hematology-II)</td>
<td>2</td>
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</table>

Cytotechnology

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR (LSU MEDICAL CENTER)</th>
<th>SEM. HRS.</th>
</tr>
</thead>
</table>
(Junior Year, continued)

Zoology 4104 .................................................. 4
Approved advanced life sciences electives .................................. 7-8
Approved electives ........................................... 12-13
32

(Senior Year, continued)

CTEC 4020 (Preparatory Techniques) ................................... 5
CTEC 4030 (Gynecologic Cytology) .................................... 6
CTEC 4040 (Respiratory Cytology) ...................................... 4
CTEC 4050 (Gastrointestinal Cytology) ................................. 3
CTEC 4060 (Urinary Cytology) ........................................... 3
CTEC 4070 (Body Cavity and Miscellaneous Secretions Cytology) ........................................... 3
CTEC 4080 (Cytogenetics) ................................................ 2
CTEC 4090 (Seminar) ................................................... 1
CTEC 4100 (Independent Project) ....................................... 2
CTEC 4130 (Advanced Gynecologic Techniques) .................... 3

36

Graduates are eligible for the National Registry Examinations of the American Society of Clinical Pathologists.

THE DIVISION OF ORGANIZED RESEARCH

This division is an integral part of the college. Its purpose is two-fold: to serve the people of Louisiana through its various consulting services and facilities for basic research; and to provide opportunity and encouragement for faculty and students of the college to engage in both fundamental and applied research.

The division has facilities for conducting research in spectroscopy, nuclear magnetic resonance, biochemistry, instrumental analysis, nuclear reactions, beta and gamma ray spectroscopy, low temperature physics, and observational and theoretical astronomy, as well as in the more general fields of chemical and physical research.
The Division of Continuing Education, established in June 1924 as the General Extension Division, is an academic unit of LSU. Part-time instructional staff members are drawn from University System faculty. Each faculty member who engages in continuing education services is approved for the particular service by the department head and academic dean concerned and by 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 Advanced Studies and Research and the Vice-Chancellor for Academic Affairs.

It is the purpose of the division, in cooperation with the various schools and colleges of the University, to extend the educational resources of LSU to the people of the state. Formal university-level instruction is provided by means of off-campus courses and correspondence study. Off-campus courses, organized either on a credit or noncredit basis, are offered in accordance with guidelines of the Board of Regents where there is a demand. In addition to the formal class instruction, the Division of Continuing Education—individually or in cooperation with other academic units of the University—conducts a variety of other higher adult-education services on and off campus. The program of continuing education at LSU is in reality an extension of the University itself, established to provide educational experiences of professional or personal interest to adults.

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 LSU cooperating colleges and schools, including all campuses 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.
DEPARTMENT OF CORRESPONDENCE STUDY

Correspondence study courses in both college and high-school subjects are taught by members of the regular University faculty. Enrollment for 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 resident study, to college students temporarily out of school, to adults who seek personal benefit from supervised study, and to teachers who are working toward certification and desire to receive help of immediate professional value.

High-school instruction by correspondence offers a person who has not finished high school a program of study that can be followed at home. Students in high schools offering limited curricula can enrich their study programs by enrolling for correspondence courses which the local school is unable to offer.

Further information concerning correspondence study courses, requirements, and opportunities may be obtained from the Correspondence Study Bulletin which is available on request from the Department of Correspondence Study.

SHORT COURSES, CONFERENCES, AND ADULT-EDUCATION ACTIVITIES

Programs of short courses, conferences, institutes, seminars, and workshops are designed to meet needs for specialized short-term instruction. Particular emphasis is placed on continuing education programs for the professions. In some cases, an annual institute or seminar is operated in order for systematic and continuous study to be made of the problems of a particular group. Some of the programs are designed by members of the faculty to meet educational needs of various groups. However, most programs are offered in response to demand. The responsibility for initiating the programs may rest with the faculty or with leaders of groups. The kind of instruction used in short courses and seminars varies with the type of program, since it is designed to meet particular needs.

Short courses and conferences have the academic sponsorship of the various colleges, schools, and departments of the University through the Division of Continuing Education. In some instances, educational projects are sponsored directly by the division.

University faculty members serve as program monitors, advisers, and speakers. 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 according to the needs of the conference activity.

THE CONTINUING EDUCATION CENTER

Pleasant Hall, the LSU Continuing Education Center, is one of the outstanding continuing education centers in the U.S. The center is completely airconditioned and has two large auditoriums with seating capacities of 250 each, several medium-sized auditoriums with seating capacities of 80-100 each, and nine smaller conference rooms. 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.

Pleasant Hall contains 150 bedrooms, 124 of which have private baths. The remaining bedrooms are conveniently located near hall baths. The center provides comfortable housing for men and women. While food service is not provided, other routine hotel accommodations are available.

SPECIALIZED SERVICES

The Division of Continuing Education administers the specialized instructional programs described below.

English Language and Orientation Program

Noncredit 14-week English and orientation courses for foreign students are offered three times a year beginning in September, January, and April. These courses are designed to enable foreign students to obtain a mastery of English and to facilitate their adjustment to the educational, social, and cultural life of the U.S. Admission to the English Language and Orientation Program neither signifies nor guarantees admission to LSU.
Fireman Training Program

Provision is made for in-service training for firemen by dividing the state into five sections, with an instructor assigned to each section and five instructors assigned to the Training Center at LSU. Activities include courses taught in the various communities of the state on an extension-class basis. A series of specialized institutes taught at the Fireman Training Center is designed to meet the in-service needs and the national standards for both paid and volunteer firefighters serving the public and industry. A correspondence study course for firefighters, with testing procedures conducted by the Fireman Training Program, is available. Training facilities for practical application are provided at the 41-acre Training Center, south of the Baton Rouge campus. In addition, the Fireman Training Program staff participates in the training of students enrolled in the fire science associate degree program at LSU-Eunice.

IADC Petroleum Industry Blowout Control Training School

The school offers a certified comprehensive course in oil and gas well blowout prevention by means of the control of pressures in drilling wells. The school has been approved by the United States Geological Survey (USGS) to award certificates for the comprehensive training required for Drillers, Toolpushers, and Operator’s Representatives under the O.C.S. Training Standard T-1. The school also offers a noncertified course in blowout prevention for those not requiring USGS certification. Each course includes theory of well control and the care and use of well equipment. The certified course offers training on both surface and subsurface BOP stacks. In addition, practical experience is provided at the 6000-foot practice training well and on two IMCO/BOSS simulators and three Simtran simulators. A certified refresher course (USGS approved) is planned in the near future.

Governmental Services Institute

Through its comprehensive program of training, services, and research, the 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 training agency for two new training and educational programs authorized by the 1979 Louisiana Legislature. The Public Training Program is an in-service program designed to increase the skills and knowledge of all state employees and nonelective 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 curriculum includes 216 instructional hours in management and 60 hours in elective courses. On completion of the program, participants are awarded Certified Public Manager certifications. The certification may be used by the employee in lieu of education or experience requirements for promotion.

Law Enforcement Training Program

Provision is made through this program for in-service training of persons employed in law enforcement. The Basic Training Academy holds four 6-week courses and the specialized Juvenile Officers School holds two 6-week schools; the Law Enforcement Institute and Traffic Management Institute hold two 12-week courses on the Baton Rouge campus annually. The Mobile Police Traffic Training School and the Field In-Service Training School are 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 the best, 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.
The College of Design was created to bring together the disciplines of design and visual arts within the focus of eminent scholarship and excellence in design and visual research. The college offers professional education within accredited schools in the following areas: architecture, interior design, landscape architecture, and visual arts with majors in 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 and Master of Landscape 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 the design and/or visual arts, the student is expected to achieve 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. To further enrich the total educational experience, individual schools sponsor exhibitions 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, 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 school offering the program they desire and ascertain the admission requirements of that particular program. Other requirements for entering the college are as follows.

From Junior Division
1. students must have completed a minimum of 24 semester hours, with a 2.00 or other specified gpa on all work taken;
2. students must have grades of “C” or better in all courses in the college taken for degree credit;
3. students wishing to enter a program in the college for which there is a selective admission requirement must meet the following additional requirements:
   a. before midterm of the spring semester (for fall admission), submit to the school concerned 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.
   b. meet the admission requirements for the specific curriculum. These are to be found in the individual curriculum descriptions on the following pages.

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 will be required to submit examples of their work. Students seeking to transfer into the college should submit their application on or before June 1st 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 at least a 2.00 grade-point average 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
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 a program of studies established by the school concerned 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 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.
3. 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.
4. Attain proficiency in English (see below).
5. In the final year, complete the check-out of all coursework required for the degree. Details of check-out procedures are available in each school office.

SPECIAL PROVISIONS OF THE COLLEGE

In addition to the scholastic regulations of the University (see page 63), 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 Department of Health, Physical, and Recreation Education. Further, certain schools do not allow pass/fail grades for degree credit. Students should contact their schools for specifications on these regulations.

In addition to the general attendance regulations stated on page 58, the college’s policy provides that any student with more than three unexcused absences in any course or in the English proficiency lab is automatically placed on attendance probation.

PROFICIENCY IN ENGLISH

To be considered proficient in the use of English, the student 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 take the English Proficiency Examination. Those who fail this examination must attend the English Writing Laboratory operated by the Department of English until their ability to use English effectively is certified. 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.

Any student considered by any instructor to be deficient in the use of English may be referred to the director of the school and required to take additional coursework in English. In these circumstances, the student must demonstrate to the school a proficiency in English in order to qualify as a candidate for a degree.

REQUIREMENTS FOR A SECOND BACHELOR’S DEGREE

In order to qualify for a second bachelor’s degree in this college, a student must complete (with at least a 2.50 grade-point average) a program of studies which comprises a minimum of 30 semester hours of work beyond the first degree requirements, including any stated degree requirements not previously met. This program must include at least two semesters in which the student is registered as full-time in the College of Design.

Second degrees may be awarded at the bachelor’s level in architecture, fine arts, interior design, and landscape architecture. Details on the requirements for these degrees may be obtained from the director of the appropriate school.

The program of studies planned for the second degree must have approval of the director of the school and the dean of the college. Petitions for permission to begin work on a second degree must be filed in the dean’s office one month before registration.

GRADUATE PROGRAMS

Graduate work presently offered by the schools of the College of Design through the Graduate School provides programs leading to the degrees of Master of Fine Arts and Master of Landscape Architecture. For information concerning advanced degrees in the college, consult the Graduate School Catalog.

CURRICULA

Electives in the freshman and sophomore years may include a total of six semester hours of basic ROTC.

School of Architecture

The architect today is involved with a wide range of architectural problems extending from individual buildings, their sites, interiors, and components, to large building complexes and city and regional planning. An architect may work as an individual professional 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 is a member of the Association of Collegiate Schools of Architecture. It is accredited by the National Architectural Accrediting Board, and offers an accredited undergraduate program in architecture leading to the
Bachelor of Architecture degree. The five-year curriculum includes the areas of management, humanities, technology, graphic communications, and the synthesis of these areas through architectural design.

Due to resource limitations such as number of faculty, space, and equipment, the School of Architecture must restrict admission into the professional program in architecture (years 2-5). Students desiring to enter the professional program must make formal application for admission prior to mid-term of the semester immediately prior to the desired entry date. This application must include (a) a formal letter of intent, (b) a copy of ACT score sheets, and (c) a transcript showing all courses completed and current grade-point average.

Students who have (a) completed all required freshman courses (or their equivalent) in the curriculum, (b) earned an overall grade-point average of at least 2.25, (c) earned an ACT composite score of at least 21, and (d) passed the school’s Graphics Proficiency Test will be admitted automatically. Students who do not meet one or more of these criteria may be admitted on a space-available basis. Such students will be ranked according to the faculty’s best estimate of their probability of completing the professional curriculum successfully. Transfer students from other universities or other programs will be considered for admission on the same basis. Students who have not been admitted to the professional program in architecture will not be allowed to take architecture courses other than those listed in the first year of the curriculum.

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 progressive registration in architecture courses until the deficiency is corrected. Courses listed below are normally taken in the sequence in which they are listed.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture 1153, 1161</td>
<td>6</td>
</tr>
<tr>
<td>English 1001, 1002 or 1002 and an English course numbered above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Environmental Design 1051</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1041</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1003</td>
<td>3</td>
</tr>
<tr>
<td>ROTC or approved electives</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture 2141-2142, 2153-2154,</td>
<td>27</td>
</tr>
<tr>
<td>2171-2172, 2174</td>
<td></td>
</tr>
<tr>
<td>Physics 1004</td>
<td>3</td>
</tr>
<tr>
<td>ROTC or approved electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture 3143-3144, 3151-3152, 3160, 3175, 3176</td>
<td>27</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture 3131, 3153-3154, 3171, 3173</td>
<td>22</td>
</tr>
<tr>
<td>Civil Engineering 3983</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FIFTH YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture 3214, 3215, 3216, 3217, 3218, 3314, 3315, 3316, 3317, 3318 (variable requirements depending on a comprehensive diagnostic exam during the second semester of senior year)</td>
<td>0-24</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6-30</td>
</tr>
<tr>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

1 Of the 43 elective hours available, at least 6 sem. hrs. must be in each of the following areas: (1) humanities, social sciences, or social problems; (2) management/business; (3) fine arts, history of architecture or art, or design; (4) technology; and at least 21 sem. hrs. must be in the courses offered in the Department of Architecture.

2 All students will be required to pass a Graphics Proficiency Test before being allowed to take sophomore-year architecture courses; they are, therefore, urged to take either Architecture 1181, Landscape Architecture 1181, or Fine Arts 1847 and either Architecture 1182 or Landscape Architecture 1182 as first-year electives.

3 Electives or Architecture 3001 (when required by the school).

**Interior Design**

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 interior design in firms specializing in
commercial or contract interiors and/or residential design space planning, or architectural firms offering interior design services. The curriculum in interior design is accredited by the Foundation for Interior Design Education and Research. Due to resource limitations such as number of faculty, space, and equipment, the interior design program must restrict admission into the professional program (years 2-4). Students desiring to enter the professional program must make formal application for admission during the spring semester or summer term prior to the start of their sophomore year in the major. The application process includes: (a) a formal letter of intent, (b) a copy of the ACT score sheet, (c) a transcript of all courses completed and a current grade-point average, (d) a portfolio of work from all first year design studio courses, and (e) two visits to cooperating interior design firms. Transfer students from other universities or programs will be considered for admission on the same basis. Students must meet the following criteria prior to applying for the selective admissions process: (1) completion of all required first year courses (or their equivalent) in the curriculum, (2) an overall grade-point average of at least 2.25, (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 admissions should be directed to the Interior Design Program Office, 225 Design Center. 

Course Sequence: Required major courses carrying the architecture and interior design prefixes are offered only in the semester indicated in the catalog course description. Prerequisites are rigidly enforced.

**English Proficiency:** See page 145.

**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 (WITH OPTION)

**TOTAL SEM HRS.: 131-146**

**Environmental Design Electives:** select 6 sem. hrs. from courses in architecture, fine arts, interior design, and landscape architecture.

**Fine Arts Electives:** 6 of the 12 sem. hrs. must be in studio courses.

**General Electives:** must be selected with approval of faculty adviser.

**Humanities, Social Science, and Behavioral Science Electives:** select 6 sem. hrs. from courses in anthropology, geography, history, philosophy, political science, psychology, and sociology.

### OPTION—INTERIOR SYSTEMS DESIGN (22 sem. hrs.):

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture 1182</td>
<td>3</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Environmental Design 1051</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts 1847</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts 1011 or Interior Design 1153</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts 1440, 1441, 2470 (choose two)</td>
<td>6</td>
</tr>
<tr>
<td>Math 1021, 1022 or physical or biological science with lab</td>
<td>6-8</td>
</tr>
<tr>
<td>Electives**</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>34-36</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture 2141, 2142, 2151-2152, 2174, 2402</td>
<td>18</td>
</tr>
<tr>
<td>Home Economics 1040</td>
<td>3</td>
</tr>
<tr>
<td>Interior Design 2720, 2751</td>
<td>6</td>
</tr>
<tr>
<td>Approved humanities, social science, or behavioral science electives**</td>
<td>3</td>
</tr>
<tr>
<td>Approved speech electives**</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>33</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English course above 2000</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 3040</td>
<td>3</td>
</tr>
<tr>
<td>Interior Design 3741, 3770, 3771</td>
<td>9</td>
</tr>
<tr>
<td>Interior Design 3756</td>
<td>8</td>
</tr>
<tr>
<td>Approved accounting, economics, finance, management, or marketing electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved college electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved fine arts electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year</th>
<th>Sem. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interior Design 3756</td>
<td>8</td>
</tr>
<tr>
<td>Interior Design 3742, 3760</td>
<td>6</td>
</tr>
<tr>
<td>Approved accounting, economics, finance, management, or marketing electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved college electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved fine arts electives</td>
<td>9</td>
</tr>
<tr>
<td>Approved humanities, social science, or behavioral science electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>32</td>
</tr>
</tbody>
</table>

*Students following the interior systems design option will be required to earn 146 semester hours for the degree. Other students will be required to earn 131-133 semester hours.

**Students desiring to take ROTC will be allowed to substitute ROTC for 3 sem. hrs. of general electives and for 3 sem. hrs. of humanities, social science, behavioral science, or speech electives.
School of Art

The purpose of the Bachelor of Fine Arts degree is to provide the liberal education and specialized instruction needed for a professional career in the visual arts. The B.F.A. programs in the School of Art offer majors in crafts (ceramics or stained glass options), painting and drawing, printmaking, and sculpture. 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.

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 concentration in art or art history; the College of Education offers the Bachelor of Science degree with a major in education and a teaching major in art.

Certain courses offered in the department require lab fees to defray the cost of consumable materials used by students. To ascertain which courses require the payment of fees, refer to individual course descriptions.

Specific questions regarding the curricula in fine arts should be directed to the School of Art, 108 Foster Hall.

Liberal Arts Requirements

From 24 to 36 hours are required in the liberal arts, not including 3-6 hours in English 1001, 1002 (1003). A minimum of six hours is required in English above 1002—to be included as part of the liberal arts total. Students are required to take a minimum of 3 sem. hrs. credit from each of the groups listed below. For specific requirements, see individual programs.

GROUP I

<table>
<thead>
<tr>
<th>Classical languages (Latin, Greek)</th>
<th>Music Philosophy</th>
<th>Russian Speech</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>German</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Journalism</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

GROUP II

<table>
<thead>
<tr>
<th>Astronomy</th>
<th>Chemistry Microbiology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Geology Physics</td>
</tr>
<tr>
<td>Botany</td>
<td>Mathematics Zoology</td>
</tr>
</tbody>
</table>

GROUP III

<table>
<thead>
<tr>
<th>Anthropology</th>
<th>History Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics</td>
<td>Political Science</td>
</tr>
<tr>
<td>Geography</td>
<td>Sociology</td>
</tr>
</tbody>
</table>

CURRICULUM IN CRAFTS (CERAMICS OPTION)

TOTAL SEM. HRS.: 128

<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 history course numbered below 3000</td>
<td>3</td>
<td>Art history course numbered below 3000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English courses numbered above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Fine Arts 1001, 1661, 1762, 1847, 1848 (core courses)</td>
<td>15</td>
<td>Fine Arts 1361, 1849 (core courses)</td>
<td>6</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
<td>6</td>
<td>Liberal arts requirements</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>4</td>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>34</td>
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</tbody>
</table>

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<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art history courses numbered above 3000</td>
<td>6</td>
<td>Fine Arts 4661, 4671, and/or 4681*</td>
<td>12</td>
</tr>
<tr>
<td>Fine Arts 2655</td>
<td>3</td>
<td>Fine Arts 4691</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts 3661 and/or 4661*</td>
<td>9</td>
<td>Fine arts studio electives</td>
<td>12</td>
</tr>
<tr>
<td>Fine arts studio electives</td>
<td>6</td>
<td>Liberal arts requirements</td>
<td>3</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
<td>3</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Electives</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

*Credit allocated among courses shown depending upon student's qualifications and interests.
### CURRICULUM IN CRAFTS (STAINED GLASS OPTION)

**TOTAL SEM. HRS.: 129**

<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 history course numbered below 3000</td>
<td>6</td>
<td>English courses numbered above 2000</td>
<td>6</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Fine Arts 1661, 1762, and either 1361 or 1371 (core courses)</td>
<td>9</td>
</tr>
<tr>
<td>Fine Arts 1001, 1847, 1848, 1849 (core courses)</td>
<td>12</td>
<td>Fine Arts 2645, 2646</td>
<td>6</td>
</tr>
<tr>
<td>Fine Arts 1645</td>
<td>3</td>
<td>Liberal arts requirements</td>
<td>9</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
<td>6</td>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
<td>TOTAL HRS.</td>
<td>36</td>
</tr>
<tr>
<td><strong>JUNIOR YEAR</strong></td>
<td><strong>SEM. HRS.</strong></td>
<td><strong>SENIOR YEAR</strong></td>
<td><strong>SEM. HRS.</strong></td>
</tr>
<tr>
<td>Fine Arts 2655, 3645, 3646, 4412, and either 4405 or 4406</td>
<td>15</td>
<td>Fine Arts 2661</td>
<td>3</td>
</tr>
<tr>
<td>Fine arts studio electives</td>
<td>9</td>
<td>Fine Arts 4645</td>
<td>6</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
<td>30</td>
<td>Fine Arts 4648</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL SHEHRS.</strong></td>
<td><strong>36</strong></td>
<td>Total</td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

### CURRICULUM IN PAINTING AND DRAWING

**TOTAL SEM. HRS.: 131**

<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 history course numbered below 3000</td>
<td>3</td>
<td>Art history course numbered below 3000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English courses numbered above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Fine Arts 1001, 1762, 1847, 1848, 1849 (core courses)</td>
<td>15</td>
<td>Fine Arts 2879, 2881, 2882</td>
<td>9</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
<td>9</td>
<td>Fine Arts 1661 and either 1361 or 1371 (core courses)</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
<td>Liberal arts requirements</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL HRS.</strong></td>
<td><strong>36</strong></td>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>JUNIOR YEAR</strong></td>
<td><strong>SEM. HRS.</strong></td>
<td><strong>SENIOR YEAR</strong></td>
<td><strong>SEM. HRS.</strong></td>
</tr>
<tr>
<td>Art history course numbered above 3000</td>
<td>3</td>
<td>Fine Arts 4800, 4884, 4889</td>
<td>11</td>
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<tr>
<td>Fine Arts 2883, 4880, 4881, 4887</td>
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<td>Fine arts studio electives</td>
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<td>Fine arts studio electives</td>
<td>3</td>
<td>Liberal arts requirements</td>
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<tr>
<td>Liberal arts requirements</td>
<td>9</td>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
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<td><strong>TOTAL HRS.</strong></td>
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</tr>
<tr>
<td><strong>TOTAL SHEHRS.</strong></td>
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<td><strong>33</strong></td>
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### CURRICULUM IN PRINTMAKING

**TOTAL SEM. HRS.: 129**

<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 history course numbered below 3000</td>
<td>3</td>
<td>Art history course numbered below 3000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English courses numbered above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Fine Arts 1001, 1847, 1848</td>
<td>9</td>
<td>Fine Arts 1361 or 1371, 1661, 1762, 1849 (choose two)</td>
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</tr>
<tr>
<td>Fine Arts 1361 or 1371, 1661, 1762, 1849 (choose two)</td>
<td>9</td>
<td>Major requirements*</td>
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<td>Liberal arts requirements</td>
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<td>Fine arts studio electives</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
<td>Liberal arts requirements</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL HRS.</strong></td>
<td><strong>33</strong></td>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>JUNIOR YEAR</strong></td>
<td><strong>SEM. HRS.</strong></td>
<td><strong>SENIOR YEAR</strong></td>
<td><strong>SEM. HRS.</strong></td>
</tr>
<tr>
<td>Art history course numbered above 3000</td>
<td>3</td>
<td>Art history course numbered above 3000</td>
<td>3</td>
</tr>
<tr>
<td>Fine arts studio electives</td>
<td>6</td>
<td>Fine arts studio electives</td>
<td>6</td>
</tr>
<tr>
<td>Major requirements*</td>
<td>12</td>
<td>Major requirements*</td>
<td>12</td>
</tr>
<tr>
<td>Fine Arts 2879, 4887</td>
<td>6</td>
<td>Fine Arts 4889</td>
<td>6</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
<td>3</td>
<td>Liberal arts requirements</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
<td><strong>TOTAL HRS.</strong></td>
<td><strong>30</strong></td>
</tr>
<tr>
<td><strong>TOTAL SHEHRS.</strong></td>
<td><strong>33</strong></td>
<td><strong>33</strong></td>
<td></td>
</tr>
</tbody>
</table>

*In addition to the core courses, students must complete Fine Arts 2362, 2372, and 24 more sem. hrs. of printmaking courses, at least 12 hrs. of which must be numbered above 4000.
School of Landscape Architecture

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, fine arts, 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.

A student will be admitted to the curriculum in landscape architecture subject to the following conditions:

From Junior Division: in addition to University requirements, the following school requirements must be met.

a. Satisfactory completion of Landscape Architecture 1151, 1181, 1182, Mathematics 1012 or 1022, END 1051-1052, and English 1002. Students who have attained a satisfactory academic standing, but have not completed all of these courses, may be admitted on a provisional basis.

b. All students must be interviewed to determine their suitability for studies in landscape architecture. The results of this interview will be important in determining admission.

Transfer Students: Students transferring into landscape architecture from other disciplines may be admitted only after having been interviewed as indicated above.

CURRICULUM IN LANDSCAPE ARCHITECTURE (WITH OPTIONS)
TOTAL SEM. HRS.: 160

In recognition of the broad scope of the profession of landscape architecture, students are encouraged to concentrate in those areas which best fit their individual abilities and interests. To accomplish this, approximately 55 hours of approved electives are provided. They are to include 6 sem. hrs. of basic science and 15 sem. hrs. related to one of 11 options. These options and the related subjects are as follows:

1. Small-scale design—architecture, fine arts, interior design, psychology.
2. Large-scale planning and design (urban, rural, regional)—economics, geography, geology, political science, psychology, sociology, statistics.
3. Recreation planning and design—forestry, geography, HP&RE, psychology, sociology.
4. Plant materials in design—agronomy, botany, entomology, horticulture, plant pathology, social sciences.
5. Ecological planning and environmental management—biological sciences, economics, geography, geology, natural sciences.
6. Landscape architectural communications—English, journalism, psychology, speech.
7. Landscape architectural history and restoration—anthropology, architectural history, art history, history, sociology.
8. Computer applications to landscape architecture—computer graphics, computer science, mathematics, social science, statistics.
9. Landscape construction and site engineering—agricultural engineering, civil engineering, construction technology, geology, mathematics, social science.

10. Independent research—computer science, natural science, social science, statistics, technical writing.

11. Education in landscape architecture—education, educational psychology.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (through 1002)*</td>
<td>3-6</td>
</tr>
<tr>
<td>Environmental Design 1051-1052</td>
<td>6</td>
</tr>
<tr>
<td>Landscape Architecture 1151, 1181, 1182, 2141 or 2142</td>
<td>10</td>
</tr>
<tr>
<td>Mathematics 1011, 1012; or 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>ROTC or approved electives**</td>
<td>4-7</td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine Arts 1761</td>
<td>3</td>
</tr>
<tr>
<td>Landscape Architecture 2112, 2141 or 2142, 2152, 2171, 2183</td>
<td>15</td>
</tr>
<tr>
<td>ROTC or approved electives**</td>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Engineering 3307 or Civil Engineering 2500, 2510</td>
<td>3</td>
</tr>
<tr>
<td>Landscape Architecture 3121, 3122, 3153, 3154, 4173, 4184</td>
<td>21</td>
</tr>
<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>Landscape Architecture 4157, 4158, 4174, 4175, 4195</td>
<td>17</td>
</tr>
<tr>
<td>Approved electives</td>
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32

**FIFTH YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Landscape Architecture 4155, 4156, 4251, 4252, 4276, 4291, 4292</td>
<td>21</td>
</tr>
<tr>
<td>Approved electives</td>
<td>11</td>
</tr>
</tbody>
</table>

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*Students who do not receive a grade of "B" or better in English 1002 are required to take the English proficiency exam. Failure of the English proficiency exam will require the scheduling and satisfactory completion of the English Writing Laboratory.

**6 sem. hrs. of ROTC may be taken as electives.
The College of Education has as its purpose 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. In addition to these, the Teacher Placement Service and Bureau of Educational Materials and Research are part of the College of Education. The college administers all curricula (except those offered by the School of Vocational Education) 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) should plan their Junior Division work to conform to the requirements of the College of Education.

This college is accredited at the bachelor’s and master’s levels by the National Council for Accreditation of Teacher Education.

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 coursework, 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.

ADMISSION REQUIREMENTS

Teachers should rank high in mental alertness, power of expression, and professional enthusiasm. Students enrolling 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. Within the framework of University regulations, the college admits students to teacher-education programs 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 at least a 2.20 grade-point average on all work taken will be considered for admission to the college.

2. **Transfer students from accredited colleges and universities** with cumulative grade-point averages of at least 2.20 will be considered for admission to the college. Such students must meet curricular requirements of this college as determined by the dean.

3. Students on University scholastic and attendance probation will not be admitted to the college.

4. Prospective teachers in all fields, except the various areas of vocational education, should register in the college no later than the beginning of the sophomore year. Students who enter after that time will usually suffer loss of time in making the necessary adjustments to degree requirements.

5. All students must have completed a minimum of three clock hours of counseling related to their suitability and aptitude for teaching and to the availability of jobs both geographically and by subject major.

**RETENTION IN THE COLLEGE**

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, pass the English proficiency examination, or be declared proficient in English through the English Writing Laboratory. 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 (or less) of graduation who are not qualified for student teaching will be dropped from the college. (See "Requirements for Student Teaching," below.)

**REQUIREMENTS FOR STUDENT TEACHING**

No student may schedule more than 14 semester hours of work during the semester in which student teaching is done. Any student who is within 14 hours (or less) of graduation and is not qualified for supervised student teaching will be dropped from the college (see requirements below). Application for student teaching must be made to the Director of Student Teaching, with approval of the student’s adviser, no later than one week following the last day for adding courses in the semester prior to student teaching.

Student teaching is scheduled for the entire school day. 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. Student teachers must also plan for 3:30-4:30 p.m. meetings on Mondays and Wednesdays.

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)

2. Completion of EDCI 2025, 3112, 3113, 3125, 3126, 3127; and Psychology 2060, 2076.

3. Proficiency in written expression.

**In the Secondary 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 each teaching field, and with no grade lower than "C" in professional education courses and in courses required in each teaching field regardless of institution(s) attended.

2. Completion of all the professional education courses, including psychology and specialized courses prescribed in the freshman, sophomore, and junior years.

3. Proficiency in written expression.

**In the Elementary and Secondary 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 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 courses prescribed in the freshman, sophomore, and junior years.

3. Proficiency in written expression.
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.

DEGREE REQUIREMENTS OF THE COLLEGE

Degrees 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 in all work taken, with no grade less than "C" in professional education courses and in specialized academic courses.
2. Completion of final 30 semester hours of work done in residence on the campus at Baton Rouge 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 and the Louisiana Board of Elementary and Secondary Education.
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 (foreign students), 2001, or 2002 or have the equivalent in transfer credit. If the grade is lower than "C" they must earn a satisfactory score (at least 301) on an English proficiency test. Those whose test scores are unsatisfactory must work in the English Writing Laboratory until proficiency is certified. 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, 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.

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.

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 concerning the requirements for the M.Ed. degree and Ed.S. certificate, consult the Graduate Division of Education Bulletin. For information concerning the M.A., M.S., Ed.D., and Ph.D. degrees, consult the Graduate School Catalog.
SEQUENCE IN SUBJECT-MATTER FIELDS FOR TEACHING MAJORS AND TEACHING MINORS FOR SECONDARY TEACHERS

Students enrolling in this college 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 advisers or personnel in the dean's office for counseling.

Art

**Teaching Major, Plan A, 40 sem. hrs.:** Fine Arts 1011, 1440, 1847, 1848, 1849, 2271, 2272, 2361, 2551, 2665, 2881, 2882, and 4273 or 4274; 1 sem. hr. of electives in fine arts.

**Teaching Major, Plan B, 44 sem. hrs.:** Fine Arts 1011, 1440, 1761, 1847, 1848, 1849, 2271, 2272, 2361, 2665, 2881, 2882, 3880, and 4273 or 4274; 2 sem. hrs. of electives in fine arts.

**Teaching Minor, 33 sem. hrs.:** Fine Arts 1011, 1440, 1847, 1848, 2271, 2272, 2361, 2551, 2665, 2881 or 2882, and 4273 or 4274.

Health and Physical Education

**Teaching Major, 56 sem. hrs.:** HP&RE 1404, 1600, 2500, 2501, 2502, 2504; 4 sem. hrs. of 2508, 2513, 3510, 3511, 3514, 3515, 3516, 3602, 3603, 3604, 4602; 5 sem. hrs. of activity courses; Zoology 2157 or 2160; Home Economics 1010.

**Teaching Minor (Physical Education), 32 sem. hrs.:** HP&RE 1404; 5 sem. hrs. from 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 2800, 3800; HP&RE 2500, 2501, 2504, 2601, 3510, 3514, 3516; 5 sem. hrs. selected from 2502, 2513, 3511, 3515; Zoology 2157 or 2160.

**Teaching Minor (Health and Safety Education), 28 sem. hrs.:** HP&RE 1600, 2500, 3602, 3603, 3604, 4600, 4602, 4603; Home Economics 1010; Zoology 2157 or 2160.

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 band, orchestra, and vocal music education; instrumental music education; and vocal music education (see curricula in music education beginning on page 162).

Secondary Education—Biology, Chemistry, or Physics

**Teaching Major, Plan A:** Biology with a minor in chemistry or physics only (see curriculum in biology); chemistry with a minor in biology or physics only (see curriculum in chemistry); physics with a minor in biology, chemistry, or mathematics only (see curriculum in physics).

**Teaching Major, Plan B:** Biology with no teaching minor (see curriculum in biology); chemistry with no teaching minor (see curriculum in chemistry); physics with no teaching minor (see curriculum in physics).

**Teaching Minor, 43 sem. hrs.:** Biology 1001, 1002, 1003, 1004; Botany 2055 or Microbiology 2051; Chemistry 1201, 1202, 1212, 2060, 2364; Physics 2001, 2002, 2008, 2009, 4008, 4051; earth science electives (6 sem. hrs.).

Secondary Education—Business and Office Occupations Education

Students majoring or minorin in business and office occupations 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.


Secondary Education — Distributive Education

Students majoring or minoring in distributive 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.

Teaching Major, Plan A, 44 sem. hrs.: Accounting 2001, 2101; Finance 3200; EDCI 2621; Economics 2010, 2020; Management 2071, 3159, 4167; Marketing 3401, 3411, 4421, 4423, 4433; Computer Science 1270.

Teaching Minor, 32 sem. hrs.: Accounting 2001, 2101; Finance 3200; EDCI 2621; Economics 2010, 2020; Management 4167; Marketing 3401, 3411, 4421; Computer Science 1270.

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, preferable French or German.

Teaching Major, Plan A, 51 sem. hrs.: English 1001, 1002, 2001, 2010, 2020, 2022, 2148 or 4148 or 4149; 3 sem. hrs. of American literature; 18 sem. hrs. of electives selected from English courses numbered 4011 or higher, from the English honors courses 3820, 3821, 3822, 3823, or from 2025, 2027 (courses in language, literary criticism, and Afro-American literature are recommended); 6 sem. hrs. of electives in speech (Speech 1050 and 2040 are recommended); EDCI 3135.

Teaching Major, Plan B, 57 sem. hrs.: English 1001, 1002, 2001, 2010, 2020, 2022, 2148, or 4148 or 4149; 3 sem. hrs. of American literature; 24 sem. hrs. of electives selected from English courses numbered 4011 or higher, from the English honors courses 3820, 3821, 3822, 3823, or from 2025, 2027 (courses in language, literary criticism, and Afro-American literature are recommended); 6 sem. hrs. of electives in speech (Speech 1050 and 2040 are recommended); EDCI 3135.

Teaching minor, 30 sem. hrs.: English 1001, 1002, 2001, 2010, 2020, 2022, 2148 or 4148 or 4149; 3 sem. hrs. of American literature; 3 sem. hrs. of English electives; EDCI 3135.

Secondary Education — French


Teaching Major, Plan B, 40 sem. hrs.: French 2051, 2053, 2055, 2061, 2062, 2071, 2072, 4005, 4602, 4603; 9 sem. hrs. of electives in French.

Teaching Minor, 26 sem. hrs.: French 2051, 2053, 2055, 2061, 2062, 2071 or 2072, 4005, 4602.

Secondary Education — German

Teaching Major, Plan A, 29 sem. hrs.: German 2051, 2053, 2055, 2061, 2062, 2075, 2083 or 2084, 4002; 3 sem. hrs. of electives in German above the freshman level.

Teaching Major, Plan B, 40 sem. hrs.: German 1001, 2051, 2053, 2055, 2061, 2062, 2075, 2083, 2084, 4002; 6 sem. hrs. of electives in German (to be selected from literature courses dealing in genre or literary personality).

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.

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, 21 sem. hrs.: Journalism 2090, 2151, 4042, 4082, 4107; 6 sem. hrs. of electives in journalism (Journalism 4011 recommended).
Secondary Education—Latin

Teaching Major, Plan A, 23 sem. hrs.: Latin 2051, 2053, 2055, 4002; 9 sem. hrs. of electives in Latin above the freshman level.

Teaching Major, Plan B, 34 sem. hrs.: Latin 1001, 2051, 2053, 2055, 2063, 3026; 9 sem. hrs. of electives in Latin to be selected from 2073, 2074, 4002, 4004, 4006; plus 3 sem. hrs. specified by Department of Foreign Languages.

Teaching Minor, 20 sem. hrs.: Latin 2051, 2053, 2055, 4002; 6 sem. hrs. of electives in Latin above the freshman level.

Secondary Education—Library Science

Teaching Major: Library science may not be scheduled as a teaching major.

Teaching Minor, 24 sem. hrs.: EDAF 3500, 3550, 3551, 3552, 3553, 3554, 3555; ED CI 3660.

Students interested in continuing their studies in library science at the graduate level are advised to elect at least one year in a foreign language.

Secondary Education—Mathematics

Teaching Major, Plan A, 32-34* sem. hrs.: Math 1021, 1022, 1050, 1052, 2019, 2057, 4005; 6 sem. hrs. selected from Math 2085, 4006, 4020; Computer Science 1241.

Teaching Major, Plan B, 44-46* sem. hrs.: Math 1021, 1022, 1050, 1052, 2019, 2057, 2085, 4005, 4006, 4020, 4055, 4181; Computer Science 1241, 1251.

Teaching Minor, 24-26* sem. hrs.: Math 1021, 1022, 1050, 2019, 4005, 4006, 4020; Computer Science 1241.

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 4010 or 4020 or 4310; 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, 4010, 4020 or 4310; 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 2071, 2072, 2073, 2074; 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, 2071, 2072, 2073, 2074, 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 2071, 2072, 2073, 2074; Spanish 4602.

*Based on test scores, students placed in Math 1023 (4 sem. hrs.) will be required to take 32 sem. hrs. for a mathematics major with a minor; 23 sem. hrs. for a mathematics minor; and 44 sem. hrs. for a mathematics major with no minor. Mathematics majors must have at least 25 sem. hrs. of math courses numbered 1050 or above.
Secondary Education—Speech

Teaching Major, Plan A, 34 sem. hrs.: Speech 1020, 1050, 1061, 2022, 2025, 2026, 2040, 2063, 2070 or 2073; 4125; 3 sem. hrs. of speech electives; 3 sem. hrs. of speech electives at the 4000 level.

Teaching Major, Plan B, 46 sem. hrs.: Speech 1020, 1050, 1061, 2022, 2025, 2026, 2040, 2063; 2070 or 2073; 2080 or 2081; 4125; 12 sem. hrs. of speech electives at the 4000 level; Anthropology 1003 or Psychology 2040 or Sociology 3601.

Teaching Minor, 30 sem. hrs.: Speech 1050, 1061, 2022, 2025, 2026, 2040, 2063; 2070 or 2073; 4125; 5 sem. hrs. of speech electives.

Speech, Language, and Hearing Specialist

Teaching Major, 57 sem. hrs.: Psychology 2004, 2076, 2078, 3083; Speech 1050, 2081, 4079, 4080, 4150, 4152, 4153, 4181, 4183, 4184, 4185, 4187, 4188, 4683.

Teaching Minor: Speech, language, and hearing specialist may not be scheduled as a teaching minor.

DEPARTMENTS AND CURRICULA

Department of Administrative and Foundational Services

The Department of Administrative and Foundational Services has responsibility for programs in the foundations of education (historical, philosophical, research, measurement, etc.); programs in educational media, educational administration and supervision; and library science. The department also functions to provide 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

The Department of Curriculum and Instruction has the mission of creating an environment to develop a spirit of scholarship, quality, and excellence in meeting the needs of students preparing for elementary and secondary teaching and for other school positions throughout the state and nation. A broad general education is provided in the student’s freshman and sophomore year followed by professional training for teaching given through school 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.

CURRICULUM IN ART WITH A TEACHING MINOR (PLAN A)

TOTAL SEM. HRS.: 138

<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>
<td>Biology 1001, 1002 or other biological science (science minor: Biology 1001, 1002, 1003, 1004)</td>
<td>6</td>
<td>EDAF 2000</td>
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<td>Books and Libraries 1001</td>
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<td>English 2020, 2022; or 2025, 2027</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Fine Arts 1440, 1848, 1849, 2551</td>
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<tr>
<td>Fine Arts 1011, 1847</td>
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<td>Psychology 2060, 2078</td>
<td>4</td>
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<td>Electives or ROTC</td>
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<td>Mathematics electives (mathematics or science minor: Math 1021, 1022)</td>
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<tr>
<td>Physical Science 1001-1002 or other physical science (science minor: Chemistry 1201, 1202, 1212)</td>
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<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Economics 2030 or Political Science 2051</td>
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<td>EDAF 3200</td>
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<tr>
<td>EDCI 3040, 3160</td>
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<td>EDCI 3135, 3136, 3630, and methods course in teaching minor</td>
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<td>Fine Arts 2271, 2272, 2361, 2665, 2881, 2882</td>
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(Continued column 1 next page) (Continued column 2 next page)
### CURRICULUM IN ART WITH NO TEACHING MINOR (PLAN B)

**TOTAL SEM. HRS.: 138**

#### FRESHMAN YEAR

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<th>Course</th>
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<tr>
<td>Biology 1001, 1002 or other biological science</td>
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<td>English 1001, 1002</td>
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<td>Fine Arts 1011, 1847</td>
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<td>HP&amp;RE activity courses</td>
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<td>Physical Science 1001-1002 or other physical science</td>
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#### JUNIOR YEAR

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<th>Course</th>
<th>SEM. HRS.</th>
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<tr>
<td>Economics 2030 or Political Science 2051</td>
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<td>EDCI 3040, 3160</td>
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<td>Fine Arts 2272, 2361, 2665, 2881, 2882</td>
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<td>HP&amp;RE 1600</td>
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<tr>
<td>History 2055, 2057</td>
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<td><strong>Electives</strong></td>
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#### SENIOR YEAR

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<tr>
<td>English 2020, 2022, or 2025, 2027</td>
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<tr>
<td>Fine Arts 1440, 1761, 1848, 1849, 2271</td>
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<td>Psychology 2060, 2078</td>
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<td><strong>Total</strong></td>
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### CURRICULUM IN ELEMENTARY GRADES

**TOTAL SEM. HRS.: 131**

#### FRESHMAN YEAR

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<td>Books and Libraries 1001</td>
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<td>English 1001, 1002</td>
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<tr>
<td>History 1001, 1003</td>
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<tr>
<td>Mathematics 1009, 1010 or other mathematics</td>
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<tr>
<td>Approved nutrition course</td>
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<td>Speech 1050</td>
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<td>Electives or ROTC</td>
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#### JUNIOR YEAR

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<td>EDCI 3112, 3113</td>
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<td>EDHD 3700</td>
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#### SENIOR YEAR

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<td>EDAF 3200, 3525</td>
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<tr>
<td>EDCI 3125, 3126, 3127, 3137, 3625</td>
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CURRICULUM IN MUSIC EDUCATION—COMBINATION BAND, ORCHESTRA, AND VOCAL MUSIC
TOTAL SEM. HRS.: 196-198

Courses listed to the left of hyphens should normally be taken first.

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<th>FRESHMAN YEAR</th>
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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Music 1753, 1754, 2701, 2702, 2703, 2704</td>
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<td>Music 1101-1102, 1301-1302*, 1701, 1702</td>
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<td>Music 1780, 1781, or 1782</td>
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<td>Music 1780, 1781 or 1782</td>
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<td>Music, performance (minor instrument**)</td>
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<tr>
<td>Music, performance (major and minor** instrument)</td>
<td>7</td>
<td>Psychology 2060, 2078</td>
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<td>Mathematics electives</td>
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<th>JUNIOR YEAR</th>
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<td>HP&amp;RE 1600</td>
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<td>EDCI 3135, 3136, 3170, 3630</td>
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<td>Music 1700</td>
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<td>History 2055, 2057</td>
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<td>Music 1011, 1012, 1303-1304, 3711, 3771-3772</td>
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<td>Music 1700</td>
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<td>Music 4780, 4783, or 4784</td>
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<td>Music 1121, 2011, 2012</td>
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<td>Music 4781 or 4782</td>
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<td>Music 4780, 4783, or 4784</td>
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<td>Music, performance (minor instruments**)</td>
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<td>Approved social studies electives</td>
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<td>EDCI 3630</td>
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<td>Music 4730, 4751, 4752, 4761, 4762</td>
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<tr>
<td>Music 4780, 4783, or 4784</td>
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<tr>
<td>Music, performance (major instrument)</td>
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<td>Physical Science 1001-1002 or other physical science</td>
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</tbody>
</table>
### Junior Year

<table>
<thead>
<tr>
<th>Course</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 3040, 3171</td>
<td>5</td>
</tr>
<tr>
<td>HP&amp;RE 1600</td>
<td>2</td>
</tr>
<tr>
<td>History 2055</td>
<td>3</td>
</tr>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 1303-1304, 3711, 3771-3772</td>
<td>8</td>
</tr>
<tr>
<td>Music 4781 or 4782</td>
<td>2</td>
</tr>
<tr>
<td>Music, performance (major and minor** instruments)</td>
<td>9</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 2030 or Political Science 2051 and 3 sem. hrs. of approved social studies electives</td>
<td>6</td>
</tr>
<tr>
<td>EDCI 3135, 3136, 3630</td>
<td>18</td>
</tr>
<tr>
<td>History 2057</td>
<td>3</td>
</tr>
<tr>
<td>Music 1700</td>
<td>1</td>
</tr>
<tr>
<td>Music 4730, 4751, 4752, 4761, 4762</td>
<td>8</td>
</tr>
<tr>
<td>Music 4781 or 4782</td>
<td>2</td>
</tr>
<tr>
<td>Music, performance (minor instruments)</td>
<td>2-3</td>
</tr>
<tr>
<td>Physical Science 1001-1002 or other physical science</td>
<td>6</td>
</tr>
</tbody>
</table>

*Violin or viola majors may elect 2 sem. hrs. of chamber music in which they play violin or viola (whichever is not the major) in lieu of Music 1301-1302.

**For the minor instrument, take one of the following courses each semester, omitting the course—or part of the course—involving the major instrument: Music 1401 (flute); 1402 (oboe); 1403 (clarinet, saxophone); 1404 (bassoon); 1501 (cornet, trumpet, alto horn, baritone); 1502 (French horn); 1503 (trombone, tuba); and 1601 (percussion). 46-47

### CURRICULUM IN MUSIC EDUCATION—VOCAL MUSIC

**Courses listed to the left of hyphens should normally be taken first.**

<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>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE activity courses</td>
<td>2</td>
</tr>
<tr>
<td>Music 1011, 1012, 1123-1124, 1701, 1702</td>
<td>17</td>
</tr>
<tr>
<td>Music 1780, 1783, or 1784</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics electives</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
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</tbody>
</table>

TOTAL SEM. HRS.: 160

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>EDAF 2000</td>
<td>3</td>
</tr>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 1125-1126, 1753, 1754, 2011, 2012, 2701, 2702, 2703, 2704</td>
<td>21</td>
</tr>
<tr>
<td>Music 1780, 1783, or 1784*</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
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<tr>
<td>Electives or ROTC</td>
<td>4</td>
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</table>

TOTAL SEM. HRS.: 38

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>EDCI 3135, 3136, 3630</td>
<td>18</td>
</tr>
<tr>
<td>HP&amp;RE 1600</td>
<td>2</td>
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<tr>
<td>History 2055, 2057</td>
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<tr>
<td>Music 1700</td>
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<tr>
<td>Music 2125, 2126, 4751, 4752</td>
<td>7</td>
</tr>
<tr>
<td>Music 4780, 4783, or 4784</td>
<td>2</td>
</tr>
<tr>
<td>Physical Science 1001-1002 or other physical science</td>
<td>6</td>
</tr>
<tr>
<td>Approved social studies electives</td>
<td>3</td>
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</tbody>
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TOTAL SEM. HRS.: 45

*Students who play an instrument may also register for Music 4781, 4782, or a chamber music course.

**In lieu of Music 3011 (3), schedule for the first semester of the junior year, and Music 3018 (3), scheduled for the second semester of the junior year, the student may elect to take Music 3011 (3) in the first semester, Music 3015 (1.5) in the second semester, and Music 3016 (1.5) in the senior year during the semester in which he or she is not practicing teaching, or take Music 3012 the second semester.

### CURRICULUM IN SECONDARY EDUCATION—BIOLOGY WITH A TEACHING MINOR (PLAN A)

**This curriculum allows a minor in chemistry or physics.**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>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>HP&amp;RE activity courses</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
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TOTAL SEM. HRS.: 138-142

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<tbody>
<tr>
<td>Botany 1001, 1002 or Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>EDAF 2000</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>4</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>35</td>
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</tbody>
</table>
JUNIOR YEAR

Chemistry 2251, 2252; or Physics 4008, 4051 .......................... 4-5 (depending on teaching minor)
EDCI 3040, 3135, 3147 ......................................................... 8
Geology 1001, 1003, 1601, 1602 ........................................... 8
HP&RE 1600 ......................................................................... 2
History 2055, 2057 ................................................................. 6
Microbiology 2051 ................................................................. 4
Zoology 2160 ......................................................................... 3

SEM. HRS. 35-36

CURRICULUM IN SECONDARY EDUCATION—BIOLOGY WITH NO TEACHING MINOR (PLAN B)

TOTAL SEM. HRS.: 138-139

FRESHMAN YEAR

Books and Libraries 1001 ..................................................... 1
Chemistry 1201, 1202, 1212 .................................................. 8
English 1001, 1002 ............................................................... 6
HP&RE activity courses ......................................................... 2
Mathematics 1021, 1022 ....................................................... 6
Zoology 1001, 1002 ............................................................... 8
Electives or ROTC ................................................................ 2

SEM. HRS. 33

SOPHOMORE YEAR

Botany 1001, 1002 ............................................................... 8
EDAF 2000 ........................................................................... 8
English 2020, 2022; or 2025, 2027 ....................................... 6
Psychology 2060, 2078 ......................................................... 6
Electives or ROTC ................................................................ 4

SEM. HRS. 35

JUNIOR YEAR

Botany 2055 ......................................................................... 4
EDCI 3040, 3135, 3147 ......................................................... 8
Geology 1001, 1601 ............................................................... 4
HP&RE 1600 ......................................................................... 2
History 2055, 2057 ................................................................. 6
Microbiology 2051 ................................................................. 4
Zoology 2160, 4149 ............................................................... 7

SEM. HRS. 35

SOPHOMORE YEAR

Botany 1001, 1002 ............................................................... 8
EDAF 2000 ........................................................................... 8
English 2020, 2022; or 2025, 2027 ....................................... 6
Psychology 2060, 2078 ......................................................... 6
Electives or ROTC ................................................................ 4

SEM. HRS. 35

CURRICULUM IN SECONDARY EDUCATION—BUSINESS AND OFFICE OCCUPATIONS EDUCATION
WITH A TEACHING MINOR (PLAN A)

TOTAL SEM. HRS.: 141

FRESHMAN YEAR

Biology 1001, 1002 or other biological science (science minor: Biology 1001, 1002, 1003, 1004) .............. 6
Books and Libraries 1001 ..................................................... 1
English 1001, 1002 ............................................................... 6
HP&RE 1600 ......................................................................... 2
HP&RE activity courses (physical education minor:
see sequence in subject-matter fields, page 157) ............ 2
Mathematics 1011, or 1021 and 1006 (mathematics or science minor: Math 1021, 1022) ......................... 6
Physical Science 1001-1002 or other physical science (science minor: Chemistry 1201, 1202, 1212) ....... 6
Electives or ROTC ................................................................. 3

SEM. HRS. 32

SOPHOMORE YEAR

Accounting 2001, 2101 ......................................................... 6
EDAF 2000 ........................................................................... 3
English 2020, 2022; or 2025, 2027 ....................................... 6
Office Administration 2000, 2001, 2100, 2101 ............... 12
Psychology 2060, 2078 ......................................................... 6
Electives or ROTC ................................................................ 3

SEM. HRS. 36

JUNIOR YEAR

Accounting 3201 ................................................................. 3
Economics 2010, 2020 ......................................................... 6

SEM. HRS. (Continued column 1 next page)

SOPHOMORE YEAR

Accounting 2001, 2101 ......................................................... 6
EDAF 2000 ........................................................................... 3
English 2020, 2022; or 2025, 2027 ....................................... 6
Office Administration 2000, 2001, 2100, 2101 ............... 12
Psychology 2060, 2078 ......................................................... 6
Electives or ROTC ................................................................ 3

SEM. HRS. 36

SENIOR YEAR

Computer Science 1270 ....................................................... 3
EDAF 3200 ........................................................................... 2

SEM. HRS. (Continued column 2 next page)
### CURRICULUM IN SECONDARY EDUCATION—BUSINESS AND OFFICE OCCUPATIONS EDUCATION WITH NO TEACHING MINOR (PLAN B)

Students majoring in business and office occupations 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.

#### FRESHMAN YEAR

<table>
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<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Biology 1001, 1002 or other biological science</td>
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</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE 1600 and 2 sem. hrs. of activity courses</td>
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</tr>
<tr>
<td>Mathematics 1011 or 1021; and 1006</td>
<td>6</td>
</tr>
<tr>
<td>Physical Science 1001-1002 or other physical science</td>
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<tr>
<td>Approved social studies electives</td>
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</tr>
<tr>
<td>Electives or ROTC</td>
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<tr>
<td><strong>Total</strong></td>
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#### SOPHOMORE YEAR

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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Accounting 2001, 2101</td>
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<tr>
<td>EDAF 2000</td>
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</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Office Administration 2000, 2001, 2100, 2101</td>
<td>12</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 3201</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2010, 2020</td>
<td>6</td>
</tr>
<tr>
<td>EDCI 2620, 3040, 3135, 3136, 3140, 4140</td>
<td>13</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Office Administration 3000, 3100, 3500</td>
<td>37</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>70</strong></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>Computer Science 1270</td>
<td>3</td>
</tr>
<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3136, 3141, 3635</td>
<td>17</td>
</tr>
<tr>
<td>Finance 2000</td>
<td>3</td>
</tr>
<tr>
<td>HP&amp;RE 2601</td>
<td>1</td>
</tr>
<tr>
<td>Management 2071, 3159</td>
<td>6</td>
</tr>
<tr>
<td>Marketing 3401</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 2051 or Sociology 2001</td>
<td>3</td>
</tr>
<tr>
<td>or other social studies course</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>38</strong></td>
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</tbody>
</table>

### CURRICULUM IN SECONDARY EDUCATION—CHEMISTRY WITH A TEACHING MINOR (PLAN A)

This curriculum allows a minor in biology or physics.

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 (biology minor: Botany 1001, 1002 or Zoology 1001, 1002)</td>
<td>6-8</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</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>HP&amp;RE 1600 and 2 sem. hrs. of activity courses</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023*</td>
<td>6</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

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Chemistry 2251, 2252</td>
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<tr>
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</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1050</td>
<td>5</td>
</tr>
<tr>
<td>Psychology 2060</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>4</td>
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<tr>
<td><strong>Total</strong></td>
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</table>
**CURRICULUM IN SECONDARY EDUCATION—CHEMISTRY WITH NO TEACHING MINOR (PLAN B)**

**FRESHMAN YEAR**

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
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</tr>
<tr>
<td>Biology 1001, 1002</td>
<td>6</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>HP&amp;RE 1600 and 2 sem. hrs. of activity courses</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023*</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
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<tr>
<td><strong>TOTAL</strong></td>
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**SOPHOMORE YEAR**

<table>
<thead>
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<tbody>
<tr>
<td>Chemistry 2251, 2252</td>
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<tr>
<td>English 2020, 2022; or 2025, 2027</td>
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</tr>
<tr>
<td>Mathematics 1050</td>
<td>5</td>
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<tr>
<td>Psychology 2060</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>
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<tbody>
<tr>
<td>Chemistry 2261, 2262, 2364, 4491</td>
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<tr>
<td>EDCI 3040, 3147</td>
<td>5</td>
</tr>
<tr>
<td>Geology 1001, 1601</td>
<td>4</td>
</tr>
<tr>
<td>History 2055</td>
<td>3</td>
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<tr>
<td>Mathematics 1052</td>
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<tr>
<td>Psychology 2078</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td>33</td>
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**SENIOR YEAR**

<table>
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<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Chemistry 4492</td>
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<tr>
<td>EDAF 3200</td>
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<tr>
<td>EDCI 3135, 3136, 3635</td>
<td>18</td>
</tr>
<tr>
<td>HP&amp;RE 2601</td>
<td>1</td>
</tr>
<tr>
<td>History 2057 and 6 sem. hrs. of approved social studies electives</td>
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<tr>
<td>Geology 1003, 1602</td>
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<tr>
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<td><strong>TOTAL</strong></td>
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</table>

*Students qualifying to take Math 1023 will have one additional hour of free electives.*

**CURRICULUM IN SECONDARY EDUCATION—DISTRIBUTIVE EDUCATION WITH A TEACHING MINOR (PLAN A)**

**FRESHMAN YEAR**

<table>
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<tr>
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<tbody>
<tr>
<td>Biology 1001, 1002 or other biological science (science minor: Biology 1001, 1002, 1003, 1004)</td>
<td>6</td>
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<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE 1600</td>
<td>2</td>
</tr>
<tr>
<td>HP&amp;RE activity courses (physical education minor: see sequence in subject-matter fields, page 157)</td>
<td>2</td>
</tr>
<tr>
<td>Mathematics 1011 or 1021; and 1006 (mathematics or science minor: Math 1021, 1022)</td>
<td>6</td>
</tr>
<tr>
<td>Physical Science 1001, 1002 or other physical science (science minor: Chemistry 1201, 1202, 1212)</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>32</td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Accounting 2001, 2101</td>
<td>6</td>
</tr>
<tr>
<td>Economics 2010, 2020</td>
<td>6</td>
</tr>
<tr>
<td>EDAF 2000</td>
<td>3</td>
</tr>
<tr>
<td>EDCI 2621</td>
<td>2</td>
</tr>
<tr>
<td>History 2055</td>
<td>3</td>
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<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>Approved social studies electives</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>32</td>
</tr>
</tbody>
</table>

*Students majoring or minoring in distributive 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.*
### CURRICULUM IN SECONDARY EDUCATION—ENGLISH WITH A TEACHING MINOR (PLAN A)

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.

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 or other biological science (science minor: Biology 1001, 1002, 1003, 1004)</td>
<td>6</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td></td>
</tr>
<tr>
<td>HP&amp;RE activity courses (physical education minor: see sequence in subject-matter fields, page 157)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics electives (mathematics or science minor: Math 1021 1022)</td>
<td>6</td>
</tr>
<tr>
<td>Physical Science 1001-1002 or other physical science (science minor: Chemistry 1201, 1202, 1212)</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</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>Economics 2030 or Political Science 2051</td>
<td>3</td>
</tr>
<tr>
<td>EDAF 2000</td>
<td>3</td>
</tr>
<tr>
<td>HP&amp;RE 1600</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
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#### JUNIOR YEAR

<table>
<thead>
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<tbody>
<tr>
<td>EDCI 3040, 3135, 3141, 4140</td>
<td>11</td>
</tr>
<tr>
<td>English 2020, 2022, or 2025</td>
<td>6</td>
</tr>
<tr>
<td>Finance 3200</td>
<td>3</td>
</tr>
<tr>
<td>Management 3159</td>
<td>3</td>
</tr>
<tr>
<td>Marketing 3401, 3411, 4421, 4423, 4433</td>
<td>15</td>
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<td></td>
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</table>

#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Computer Science 1270</td>
<td>3</td>
</tr>
<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3136, 3635, and methods course in teaching minor</td>
<td>17</td>
</tr>
<tr>
<td>HP&amp;RE 2601 (not required for a health and safety education minor)</td>
<td>1</td>
</tr>
<tr>
<td>History 2057</td>
<td>3</td>
</tr>
<tr>
<td>Management 2071, 4167</td>
<td>6</td>
</tr>
<tr>
<td>Political Science 2051 or Sociology 2001 or other social studies course</td>
<td>3</td>
</tr>
<tr>
<td>Teaching minor or electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>39</td>
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</tbody>
</table>

### 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.

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 or other biological science</td>
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<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td></td>
</tr>
<tr>
<td>HP&amp;RE activity courses</td>
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</tr>
<tr>
<td>Physical Science 1001-1002 or other physical science</td>
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</tr>
<tr>
<td>Mathematics electives</td>
<td>6</td>
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<tr>
<td>Electives or ROTC</td>
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#### SOPHOMORE YEAR

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</thead>
<tbody>
<tr>
<td>Economics 2030 or Political Science 2051</td>
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</tr>
<tr>
<td>EDAF 2000</td>
<td>3</td>
</tr>
<tr>
<td>HP&amp;RE 1600</td>
<td>2</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
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<td></td>
<td>32</td>
</tr>
<tr>
<td>JUNIOR YEAR</td>
<td>SEM. HRS.</td>
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<tr>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td>EDCI 3040, 3135, 3142</td>
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</tr>
<tr>
<td>English electives selected from courses numbered 4011 or higher; from the English honors courses 3820, 3821, 3822, 3823; or from 2025, 2027 (courses in language, literary criticism, and Afro-American literature are recommended)</td>
<td>24</td>
</tr>
<tr>
<td>History 2055, 2057</td>
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<tr>
<td>Speech electives (1050 and 2040 recommended)</td>
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</table>

CURRICULUM IN SECONDARY EDUCATION—FRENCH, GERMAN, LATIN, RUSSIAN, OR SPANISH WITH A TEACHING MINOR (PLAN A)

TOTAL SEM. HRS.: 138

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Books and Libraries 1001</td>
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<td>English 2020, 2022; or 2025, 2027</td>
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<tr>
<td>English 1001, 1002</td>
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<td>Approved foreign language courses</td>
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<td>HP&amp;RE 1600</td>
<td>2</td>
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<tr>
<td>HP&amp;RE activity courses (physical education minor: see sequence in subject-matter fields, page 157)</td>
<td>2</td>
<td>Psychology 2060, 2078</td>
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<tr>
<td>Mathematics electives (mathematics or science minor: Math 1021, 1022)</td>
<td>6</td>
<td>Electives or ROTC</td>
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<tr>
<td>Physical Science 1001-1002 or other physical science (science minor: Chemistry 1201, 1202, 1212)</td>
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<td>Electives or ROTC</td>
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<td>JUNIOR YEAR</td>
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<td>SENIOR YEAR</td>
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<tr>
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<td>or 3149</td>
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</tr>
<tr>
<td>HP&amp;RE 2601 (not required for a health and safety education minor)</td>
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<td>Approved social studies electives</td>
<td>3</td>
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<tr>
<td>History 2055, 2057</td>
<td>6</td>
<td>Teaching minor or electives</td>
<td>12</td>
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<td>Teaching minor or electives</td>
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CURRICULUM IN SECONDARY EDUCATION—FRENCH, GERMAN, LATIN, RUSSIAN, OR SPANISH WITH NO TEACHING MINOR (PLAN B)

TOTAL SEM. HRS.: 138

<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>Biology 1001, 1002 or other biological science</td>
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<td>EDAF 2000</td>
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<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>English 2020, 2022; or 2025, 2027</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<td>9-12</td>
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<td>8-10</td>
<td>HP&amp;RE 1600</td>
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<tr>
<td>HP&amp;RE activity courses</td>
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<td>Physical Science 1002 or other physical science</td>
<td>3</td>
</tr>
<tr>
<td>Physical Science 1001 or other physical science</td>
<td>3</td>
<td>Psychology 2060, 2078</td>
<td>6</td>
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<tr>
<td>Mathematics electives</td>
<td>6</td>
<td>Electives or ROTC</td>
<td>4</td>
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<tr>
<td>Electives or ROTC</td>
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<td>SEM. HRS.</td>
<td>SENIOR YEAR</td>
<td>SEM. HRS.</td>
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<td>---------------</td>
<td>-----------</td>
<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td>EDCI 3040; 3135; 3136; 3143 or 3145</td>
<td>11</td>
<td>Economics 2030 or Political Science 2051</td>
<td>3</td>
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<tr>
<td>or 3149</td>
<td></td>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EDCI 3635</td>
<td>12</td>
</tr>
<tr>
<td>Approved foreign language courses</td>
<td>9-12</td>
<td>Approved foreign language courses</td>
<td>3-8</td>
</tr>
<tr>
<td>HP&amp;RE 2601</td>
<td>1</td>
<td>Approved social studies electives</td>
<td>3</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
<td>Electives</td>
<td>7-13</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
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<td>33-36</td>
</tr>
</tbody>
</table>
### CURRICULUM IN SECONDARY EDUCATION—MATHEMATICS WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 138**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 or other biological science (science minor: Biology 1001, 1002, 1003, 1004)</td>
<td>6</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE activity courses (physical education minor: see sequence in subject-matter fields, page 157)</td>
<td>2</td>
</tr>
<tr>
<td>History 1001 or 1003 or other social studies (social studies minor: History 1001)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>Physical Science 1001-1002 or other physical science (science minor: Chemistry 1201, 1202, 1212)</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</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>Computer Science 1241</td>
<td>3</td>
</tr>
<tr>
<td>EDAF 2000</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1050, 1052</td>
<td>10</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
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<tr>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 3040, 3135, 3136, 3146</td>
<td>11</td>
</tr>
<tr>
<td>HP&amp;RE 1600</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>Teaching minor or 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>
</tr>
</thead>
<tbody>
<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3635 and methods course in teaching minor</td>
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</tr>
<tr>
<td>History 1001 or 1003 or other approved social studies (social studies minor: History 1003)</td>
<td>3</td>
</tr>
<tr>
<td>HP&amp;RE 2601 (not required for a health and safety education minor)</td>
<td>1</td>
</tr>
<tr>
<td>Mathematics 2085, 4006, 4200</td>
<td>6</td>
</tr>
<tr>
<td>Teaching minor or electives</td>
<td>11</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>37</strong></td>
</tr>
</tbody>
</table>

*Based on test scores, students placed in Math 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 1050 or above.*

### CURRICULUM IN SECONDARY EDUCATION—MATHEMATICS WITH NO TEACHING MINOR (PLAN B)

**TOTAL SEM. HRS.: 138**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 or other biological science</td>
<td>6</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE activity courses</td>
<td>2</td>
</tr>
<tr>
<td>History 1001 or 1003 or other approved social studies</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>Physical Science 1001-1002 or other physical science</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>33</strong></td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAF 2000</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1050, 1052, 2019, 2057</td>
<td>16</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</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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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 1241, 1251</td>
<td>6</td>
</tr>
<tr>
<td>EDCI 3040, 3135, 3146</td>
<td>8</td>
</tr>
<tr>
<td>HP&amp;RE 1600</td>
<td>2</td>
</tr>
<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 2085, 4005, 4020, 4055</td>
<td>12</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34</strong></td>
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<table>
<thead>
<tr>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAF 3200</td>
<td>2</td>
</tr>
<tr>
<td>EDCI 3136, 3635</td>
<td>15</td>
</tr>
<tr>
<td>HP&amp;RE 2601</td>
<td>1</td>
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<tr>
<td>History 1001 or 1003 or other approved social studies</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 4006, 4181</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>10</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>37</strong></td>
</tr>
</tbody>
</table>

*Based on test scores, students placed in Math 1023 (5 sem. hrs.) will be required to take 33 sem. hrs. for a mathematics major with a minor and 45 sem. hrs. for a mathematics major with no minor. Mathematics majors must have at least 25 sem. hrs. of mathematics courses numbered 1050 or above.*
This curriculum allows a minor in biology, chemistry, or mathematics.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 (biology minor: Botany 1001, 1002 or Zoology 1001, 1002)</td>
<td>6-8</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</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>HP&amp;RE 1600; 2 sem. hrs. of activity courses</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023*</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
</tr>
<tr>
<td><strong>TOTAL HRS.</strong></td>
<td><strong>33-35</strong></td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 1001, 1002 or Zoology 1001, 1002 (biology minor); Chemistry 2251, 2252 (chemistry minor); or Math 2019, 4005, 4006, 4020 and Computer Science 1241 (mathematics minor)</td>
<td>5-15</td>
</tr>
<tr>
<td>EDCI 3040, 3147</td>
<td>5</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Geology 1003, 1602</td>
<td>4</td>
</tr>
<tr>
<td>History 2057</td>
<td>3</td>
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<tr>
<td>Physics 4008, 4051</td>
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<tr>
<td>Psychology 2078</td>
<td>3</td>
</tr>
<tr>
<td><strong>TOTAL HRS.</strong></td>
<td><strong>30-40</strong></td>
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</tbody>
</table>

*Students qualifying to take Math 1023 will have one additional hour of free electives.*

### CURRICULUM IN SECONDARY EDUCATION—PHYSICS WITH NO TEACHING MINOR (PLAN B)

TOTAL SEM. HRS.: 141

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002</td>
<td>6</td>
<td>EDAF 2000</td>
<td>3</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>Geology 1001, 1601</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
<td>History 2055</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Mathematics 1050, 1052</td>
<td>10</td>
</tr>
<tr>
<td>HP&amp;RE 1600; 2 sem. hrs. of activity courses</td>
<td>4</td>
<td>Physics 2101-2102, 2108-2109</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023*</td>
<td>6</td>
<td>Psychology 2060</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>2</td>
<td>Electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL HRS.</strong></td>
<td><strong>33</strong></td>
<td><strong>TOTAL HRS.</strong></td>
<td><strong>37</strong></td>
</tr>
</tbody>
</table>

*Students qualifying to take Math 1023 will have one additional hour of free electives.*

### CURRICULUM IN SECONDARY EDUCATION—SOCIAL STUDIES

TOTAL SEM. HRS.: 138

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001, 1002 or other biological science</td>
<td>6</td>
<td>EDAF 2000</td>
<td>3</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>History 2055</td>
<td>9</td>
</tr>
<tr>
<td><strong>TOTAL HRS.</strong></td>
<td><strong>36</strong></td>
<td><strong>TOTAL HRS.</strong></td>
<td><strong>138</strong></td>
</tr>
</tbody>
</table>

(Continued column 1 next page)
(Sophomore Year, continued)

Psychology 2060, 2078 ........................................ 6
Sociology 2001 .................................................. 3
Electives or ROTC ............................................. 4  

31

CURRICULUM IN SECONDARY EDUCATION—SPEECH WITH A TEACHING MINOR (PLAN A)

TOTAL SEM. HRS.: 138

(Freshman Year, continued)

HP&RE activity courses ........................................ 2
History 1001, 1003 .............................................. 6
Physical Science 1001-1002 or other physical science ... 6
Mathematics electives .......................................... 6
Electives or ROTC ............................................... 2  

35

JUNIOR YEAR

Anthropology 1001 ............................................. 3
Economics 2030; 4010 or 4020 or 4310 ................. 6
EDCI 3040, 3135, 3136, 3144 .............................. 11
HP&RE 1600 ..................................................... 2
Political Science 2051, 2056 ............................... 6
History (European) electives (3 sem. hrs. above 3000 level) 6
Electives .................................................................. 3  

37

CURRICULUM IN SECONDARY EDUCATION—SPEECH WITH NO TEACHING MINOR (PLAN B)

TOTAL SEM. HRS.: 138

(Sophomore Year, continued)

JUNIOR YEAR

EDCI 3040, 3135, 3148 .................................... 8
HP&RE 1600 ..................................................... 2
History 2055, 2057 .......................................... 6
Speech 2070 or 2073 ........................................... 3
Speech 2025, 2063, 4125, and speech elective at 4000 level 12
Teaching minor or electives ................................... 5  

36

(Freshman Year)

Books and Libraries 1001 ................................. 1
English 1001, 1002 ........................................... 6
HP&RE activity courses ...................................... 2
Speech 1050, 1061 ............................................ 6
Biological science electives ............................... 6
Mathematical electives ...................................... 6
Physical science electives ................................. 6
Electives or ROTC ............................................. 2  

35

SUNRISE YEAR

EDDAF 3200 ......................................................... 2
EDCI 3635 .......................................................... 12
Geography 2061, 2062, 4001 ............................. 9
HP&RE 2601 ....................................................... 1
History (American) electives (3 sem. hrs. above 3000 level) 6
Electives ............................................................. 5  

35
curriculum in speech, language, and hearing specialist
(serving grades K-12)

JUNIOR YEAR SEM. HRS.
EDCI 3040, 3135, 3136, 3148 ........................................ 11
History 2055, 2057 .................................................. 6
Speech 2025, 2063; 2070 or 2073; 2080 or 2081; 4125 .......................................................... 15
Electives .................................................................. 3
Total ........................................................................ 35

SENIOR YEAR SEM. HRS.
Economics 2030 or Political Science 2051 ..................... 3
EDAF 3200 ................................................................ 2
EDCI 3635 ................................................................ 12
Speech electives (4000 level) ......................................... 4
Electives .................................................................. 33
Total ........................................................................ 46

CURRICULUM IN HEALTH AND PHYSICAL EDUCATION
TOTAL SEM. HRS.: 141-145

Students majoring or minoring in health and physical education are expected to exhibit competency in a variety of sport and dance activities prior to graduation. This may be done by passing a departmental proficiency test or by receiving credit in an advanced standing examination. One must be competent in 12 of the following activities:

Team Sports (4 of the following): basketball, softball, volleyball, flag football, field sports.

Individual Sports (4 of the following): golf, archery, tennis, badminton, bowling, racquetball or handball.

Four of the following: swimming, wrestling, modern dance, folk and square dance, track and field, gymnastics and tumbling.

Electives in the freshman and sophomore years may include a total of six semester hours of basic ROTC.
Tracks of Special Interest or Emphasis

1. Aquatics: HP&RE 1337 or 1140; 1336 and 1338; 2522; 2523; 2524 ........................................... 9
2. Athletic Training: HP&RE 4503, 4504, 4505 ........................................................................... 10
3. Coaching: HP&RE 4503 and 7 hrs. from the following: HP&RE 1324, 1325, 1336, 2513, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522 ........................................... 9
4. Dance: HP&RE 1131, 1133, 1227, 4802, 4803, and 1152 or 4804 (must take 2 sem. hrs. in 1152 and/or 4804) ........................................... 9
5. Elementary Physical Education: HP&RE 1133, 1145, 1147, 4500, and Home Economics 3055 ........................................... 9
6. Health: HP&RE 4600, 4601, and Home Economics 4051 ........................................... 9
7. Recreation: HP&RE 1700 and 6 sem. hrs. from the following: HP&RE 2523, 3700; 4700 or 4701; 4702, 4703, 4704 ........................................... 9
8. Secondary Physical Education: 9 sem. hrs. from the following: HP&RE 2503, 2506, 2511, 4500, 4603, 4803 ........................................... 9
9. Driver Education: HP&RE 4603, 4606, 4607 ............................................................ 9
10. Physical Education for the Handicapped: HP&RE 2540, 3540, 3541, and 4540 ........................................... 12

Department of Human Development

The Department of Human Development houses the special education and counselor education program areas. Courses are offered for graduate and undergraduate students whose interests lie in areas such as guidance and counseling, speech and hearing therapy, and teaching exceptional children. The department also includes an evaluation clinic which provides consultative services to local school systems and diagnostic services to exceptional children. In addition, the department shares responsibilities with Southern University for the cooperative program in deaf education.

CURRICULUM IN ELEMENTARY GRADES AND EDUCATION OF THE MENTALLY RETARDED

TOTAL SEM. HRS.: 145

Electives in the freshman and sophomore years may include a total of six semester hours of basic ROTC.
### UNIVERSITY LABORATORY SCHOOL

The University Laboratory School, an integral part of the College of Education, is maintained for observation, research, and pre-service field experiences in grades 1 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.

The number of pupils that can be accommodated in the Laboratory School is limited. 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 1 through 12. These fees are payable in advance in September and January.

### COUNCIL ON TEACHER EDUCATION

The University's Council on Teacher Education serves as an advisory group on all matters affecting teacher education. It operates within the framework of policies and regulations governing the University and individual colleges. Primary purpose of the council is improvement of the teacher-education program.

### TEACHER PLACEMENT SERVICE

The College of Education maintains a teacher placement service to assist its graduates in locating teaching positions and to assist employers in locating suitable school personnel. Its facilities are available without charge to qualified teachers and other school personnel who are graduates of this college. (Teachers in the various fields of vocational education administered by the School of Vocational Education are placed through the College of Agriculture.)

### BUREAU OF EDUCATIONAL MATERIALS AND RESEARCH

The Bureau of Educational Materials and Research serves the following purposes:

1. designs, prepares, and distributes studies in education and instructional materials in cooperation with the school boards, superintendents, supervisors, visiting teachers, principals, and classroom teachers of Louisiana;
2. provides special research, statistical, and editorial services for the college;
3. prepares, edits, and distributes proceedings of the annual October Conference for School Administrators and proceedings of other significant educational conferences held at LSU;
4. provides opportunities for graduate students to gain valuable experience in educational research.

<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 3112, 3113, 3126, 3127</td>
<td>14</td>
<td>EDAF 3200, 3551</td>
<td>5</td>
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<tr>
<td>EHD 3700, 3750, 3751, 3752</td>
<td>12</td>
<td>EDCI 3125, 3625, 3759</td>
<td>23</td>
</tr>
<tr>
<td>HP&amp;RE 2507 or 3511</td>
<td>2</td>
<td>Physical Science 1002 or other physical science</td>
<td>3</td>
</tr>
<tr>
<td>History 2071</td>
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<td>Political Science 2051 or 2056</td>
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<tr>
<td>Geography elective</td>
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<td>History 2057</td>
<td>3</td>
</tr>
<tr>
<td>Music 2170 or 2171</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>37</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>37</td>
</tr>
</tbody>
</table>
The College of Engineering prepares individuals for professional careers in engineering and for other technically oriented positions 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. The College of Engineering addresses these issues through its departmental programs which require that graduates, in addition to being expertly trained in their chosen engineering discipline and in general engineering fundamentals, possess a thorough understanding of mathematics and the physical sciences and have a strong background in the humanities and social sciences.

The College of Engineering includes seven degree-granting departments, the Division of Engineering Research, and the Placement Office. 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.

MATHEMATICAL PROFICIENCY

Mathematical proficiency is essential to engineers and to engineering training. 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 their 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 will not be acceptable for application toward the bachelor of science degrees in the College of Engineering.

ADMISSION REQUIREMENTS

Admission to the University does not constitute acceptance into the College of Engineering or into a particular curriculum within this college. In any area where enrollment may exceed the facilities of the department, it may be necessary to limit the size of the classes in that curriculum. In such cases the
CURRICULA

- Agricultural Engineering
- Chemical Engineering
- Sugar Engineering
- Civil Engineering
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering
- Petroleum Engineering
- Basic Engineering Design Technology
- Engineering Science (Basic Option)

DEGREES

- Bachelor of Science in Agricultural Engineering
- Bachelor of Science in Chemical Engineering
- Bachelor of Science in Sugar 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
- Bachelor of Science in Petroleum—Chemical Engineering
- Bachelor of Engineering Technology
- Bachelor of Science in Engineering Science

department establishes criteria for admission with the 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;
2. a grade-point average of 2.00 or better; and
3. credit for or eligibility to schedule analytical geometry and calculus for curricula leading to the various bachelor of science degrees or algebra for the Bachelor of Engineering Technology degree.

**Students from other units of the LSU System** will be admitted if they comply with the above requirements for admission of Junior Division students.

**Students from other institutions** will be admitted if they have earned at least a 2.50 average on coursework attempted at U.S. institutions. In exceptional cases, transfer students who have earned less than a 2.50 may be admitted after the dean's evaluation of their overall records and determination of their probability of success. Such an evaluation will be performed only upon the written request of the student seeking to transfer into the college. The request is expected to include documentation supporting the exceptional nature of the appeal. All requests for review of the student's academic record should be submitted no later than July 1 for the fall semester, December 1 for the spring semester, or May 1 for the summer term.

**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 at a college or university which confers engineering degrees and is accredited by the Engineers' Council for Professional Development. Of the 30 semester hours which transfer students must take at LSU, a minimum of 15 semester hours must be senior-level work in the major field.

Students in good standing enrolled in this college who wish to obtain credits from college or universities
other than LSU and who plan to use such credits toward the degree requirements must obtain prior approval in writing on a specific-course basis from the dean.

**DEGREE REQUIREMENTS OF THE COLLEGE**

In order to qualify for a bachelor’s degree in this college, a candidate must satisfy these requirements:

1. completion of one of the established curricula—any substitutions from the curricula as published must have the approval of the department chairman and the dean;
2. a 2.00 average on all courses in the major field, in addition to the average of 2.00 required by the University on all work taken at LSU and on the entire college record;
3. scheduling of a minimum of 24-semester hours while enrolled in the college—of these 24, at least 15 must be senior-level work as stated in the senior year of the curricula.

**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 courses or both. Before registering for such work, however, students should obtain approval from the dean.

**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, as shown below. They must attain a 2.00 average on all work scheduled subsequent to receipt of the first degree. A student whose first degree was obtained elsewhere must satisfy all the admission requirements listed on page 175.

**GRADUATE PROGRAMS**

Through the Graduate School, the college offers the Master of Science, the Master of Engineering, and the Doctor of Philosophy degrees. The Master of Science program emphasizes fundamental theory and is mostly research-oriented. It is offered in agricultural, chemical, civil, electrical, hydraulic, 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 the following interdisciplinary areas: biomedical engineering, environmental engineering, ocean engineering, and systems engineering. The Doctor of Philosophy degree is awarded in the fields of chemical engineering, civil engineering, electrical engineering, engineering science, and mechanical engineering. For additional information, consult the Graduate School Catalog.

**DEPARTMENTS AND CURRICULA**

Up to six semester hours of History 1001, 1003, Geography 1001, 1003, Economics 1010, or Political Science 1001 are approved as humanistic and social studies electives only if scheduled during the student’s freshman year. The official list of all humanistic and social studies electives approved by the college is available in the dean’s office. All technical electives must have the 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.

Foreign students may substitute English 1004, 1005 for English 1001, 1002.

Six hours of credit earned in ROTC may be applied toward satisfaction of unrestricted electives in all engineering and engineering technology curricula.

**Department of Agricultural Engineering**

Agricultural engineering is the application of engineering fundamentals to the solution of problems in the production and processing of food and fiber. Agricultural engineers combine extensive education in the physical sciences with a
background in the biological sciences enabling them to employ energy, labor, materials, and mechanisms in the most effective manner for supplying food, clothing, and water for man's needs. Agricultural engineers are active in planning, designing, developing, and testing engineering systems for agriculture and allied industries. Some typical areas of endeavor include the mechanization and automation of agricultural production equipment and processes; the development of new food processing and packaging systems; environmental control for plant and animal production; the management of natural resources including soil, water, forests, and energy; the design of agricultural structures; research; and consultation.

There are numerous employers of agricultural engineers in Louisiana and throughout the U.S. Firms involved in the design, development, and production of agricultural power units and machinery; utility companies; state and federal agencies such as the U.S. Army Corps of Engineers, the USDA Soil Conservation Service, and the Louisiana Department of Transportation; university research and extension organizations; and engineering consulting firms are typical examples of agricultural engineering employers.

With the need for increased food and fiber production and the increasing sophistication of agricultural production and processing practices, the demand for agricultural engineers continues to exceed the supply. The constraints of energy availability, environmental quality concerns, and the increasing portion of the world's population that demands a better life will strengthen the future demands for agricultural engineers.

The Department of Agricultural Engineering is jointly administered by the Colleges of Engineering and Agriculture, with the agricultural engineering curriculum offered through the College of Engineering. This curriculum has had continual accreditation by the Engineers' Council for Professional Development since 1952.

**CURRICULUM IN AGRICULTURAL ENGINEERING**

<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>
<td>Agricultural Engineering 1248</td>
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<tr>
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<td>Biology 1002</td>
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<tr>
<td>Chemistry 1201, 1202</td>
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<td>Civil Engineering 1510, 1550 or 2500, 2510</td>
<td>3-4</td>
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<td>English 1001, 1002</td>
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<td>Mathematics 2057</td>
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<td>Electives or ROTC</td>
<td>2-3</td>
<td>Physics 2101, 2102, 2108, 2109</td>
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<td>34-35</td>
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<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
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<td>Electrical Engineering 3910, 3930</td>
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<td>Mechanical Engineering 2333 or 3333</td>
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<td>Mechanical Engineering 3133</td>
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<td>Approved humanities/social studies electives</td>
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<td></td>
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**Department of Chemical Engineering**

The chemical engineering curriculum has held continuous accreditation by the Engineers' Council for Professional Development since 1939.

Chemical engineers apply scientific principles to the solution of problems involving chemical and physical change. They design, install, and operate complete systems of people and 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. Because of the wide variety of fields in which chemical engineers apply their
talents, a special elective program permits study in an allied field in some depth. For example, students wishing to specialize ultimately in pollution control, computing, medicine, or business may plan their programs to give them a grounding in these fields. The curriculum requires a liberal amount of humanities and social studies electives to better prepare students for the responsibilities of citizenship aside from a technical career. Graduate programs leading to the M.S. and Ph.D. degrees are also offered. (See also petroleum-chemical engineering and sugar engineering.)

The undergraduate curriculum is oriented toward the use of computers which have become increasingly important to engineers. Because of the demands placed on chemical engineers, they 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 for chemical engineers should continue to be favorable.

**CURRICULUM IN CHEMICAL ENGINEERING**

**TOTAL SEM. HRS.: 133**

A grade of ‘C’ or better in each of the basic science preparatory courses completed—Chemistry 1201 and 1202, Physics 2101 and 2102 (or 1201 and 1202), and Math 1050, 1052, and 2065—is required before students may register for any chemical engineering course other than Chemical Engineering 2171.

**FRESHMAN YEAR**

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<thead>
<tr>
<th>COURSE</th>
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<td>Mathematics 1050, 1052</td>
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<td>Physics 1201 or 2101</td>
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**SOPHOMORE YEAR**

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<td>Computer Science 2260</td>
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**JUNIOR YEAR**

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<td>Chemical Engineering 3172, 3173, 4101, 4102, 4104</td>
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<td>Economics 2030</td>
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<td>Approved electives*</td>
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<td>Approved humanities/social studies electives</td>
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**SENIOR YEAR**

<table>
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<td>Chemistry 4553</td>
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<td>Electrical Engineering 2920</td>
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<td>Mechanical Engineering 3733</td>
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<td>Chemical engineering laboratory electives**</td>
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<tr>
<td>Chemical engineering design electives</td>
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<tr>
<td>Approved humanities/social studies electives</td>
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<td></td>
<td>34</td>
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</tbody>
</table>

*Approved electives constitute a block of 9 sem. hrs. which must be used for a coherent program of advanced study in an approved field. In addition to programs in “chemical engineering-industrial practice” and “chemical engineering-graduate school preparation,” approved programs are available in chemistry, biomedical engineering, and other fields. This block of 9 elective hours plus the 6 hours of free electives may be used to prepare for advanced study in another field such as law or medicine. Planning of the elective program must be governed by the following rules: (1) Courses numbered below 2000 will not be approved. In some fields, such as the biological sciences, courses numbered below 2000 may be needed as prerequisites for more advanced courses. Free electives should be used for such courses. (2) Up to 3 sem. hrs. of courses numbered between 2000 and 3000 will be approved if they are needed as prerequisites for more advanced courses in the program. For help in planning the elective program, students should consult an adviser in the department as soon as possible after entering the college.

**Chemical Engineering 4261, 4262, or Engineering 3049.**

**Department of Civil Engineering**

The civil engineering curriculum is designed to provide education in scientific and engineering principles as the basis for a successful professional career. Lectures are supplemented by laboratory work and field trips. The curriculum provides a strong mathematical background for graduate study in a specialized field or preparation for research or teaching careers.

Civil engineering is a very broad field. Graduates have succeeded in structural, transportation, hydraulic, water resources, geotechnical, construction, environmental, and municipal engineering. They are employed by private industry as well as by state and federal agencies, and many have established successful consulting engineering practices. The demand for civil engineers has been steady and, at present, appears to be increasing due to the emphasis given to the solution of problems in transportation, pollution, and urban renewal—all fields which require the services of the civil engineer.

Typically, the successful civil engineer is a registered professional engineer who affiliates with various professional
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 Engineer-in-Training (EIT) examination which is a partial requirement for registration as a professional engineer.

This curriculum is accredited by the Engineers' Council for Professional Development.

**CURRICULUM IN CIVIL ENGINEERING**

**TOTAL SEM. HRS.: 135**

**Approved Math Electives:** Math 2065, 2085, 4016, 4037 (cross listed as Mechanical Engineering 4553), 4055.

**Approved Science Electives:** Biology 1001, 1002; Chemistry 2060, 2251, 2262; Geography 2050; Geology 1005, 2001; Microbiology 2051; Nuclear Science 2051.

**Approved Technical Electives:** Agricultural Engineering 3374; Civil Engineering 3200, 4120, 4200, 4250, 4300, 4420, 4430, 4440, 4450, 4500, 4550, 4600, 4610, 4620, 4760; Mechanical Engineering 4553 (cross listed as Math 4037), 4563 (cross listed as Math 4038).

<table>
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<tr>
<th>FRESHMAN YEAR</th>
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<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>Civil Engineering 2200, 2250, 2450, 2520</td>
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<td>Civil Engineering 1510, 1550</td>
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<td>Economics 2020 or 2030</td>
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<td>Engineering 2060</td>
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<td>Electrical Engineering 2920</td>
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<td>Engineering Graphics 1001</td>
<td>2</td>
<td>Engineering Graphics 2154</td>
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<td>English 1001, 1002</td>
<td>6</td>
<td>Mathematics 2057</td>
<td>3</td>
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<td>Geology 1001</td>
<td>3</td>
<td>Physics 2101, 2102</td>
<td>6</td>
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<td>Mathematics 1050, 1052</td>
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<td>Approved science elective or ROTC</td>
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<th>SEM. HRS.</th>
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<td>Civil Engineering 3300, 3350, 3400, 3410, 3415, 3420, 3600, 3700, 4100, 4110, 4400, 4700</td>
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</table>

**Department of Electrical Engineering**

Electrical 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 the graduate for a career in such varied and rapidly expanding fields of electrical engineering as digital systems, computer engineering, energy conversion, power systems, communications, network design, control systems, electronics, semiconductor devices, signal processing, and electromagnetics, as well as the many emerging interdisciplinary areas. Graduates find excellent career opportunities available within these areas. With the background in fundamental theory and laboratory practice provided in the curriculum, they are prepared to contribute and progress in their chosen technological field.

The basic electrical engineering curriculum provides a broad background in electrical engineering through the required course sequences and an in-depth background through the elective course programs. The 12 semester hours of electrical engineering electives permit students to develop a program in one of the four areas of technical specialization. The 9 semester hours of approved 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 Engineer's Council for Professional Development.

A computer engineering option is available within the electrical engineering curriculum for students desiring more comprehensive knowledge of the principles that underlie the organization, design, and application of computer systems. This option, established in 1978, has not yet undergone evaluation by the Engineer's Council for Professional Development.

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 areas.

Beyond the baccalaureate degree the department offers graduate programs for students interested in advanced degrees. The undergraduate coursework can be directed toward future graduate work. 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, Math 1052, 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, a minimum of 9 semester hours
of electrical engineering electives must 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 system design and analysis, and control of power systems; and (4) **Systems and Signal Processing**—automatic control, networks, signal processing, and communication.

Additional information concerning these areas and guidelines for selecting electives are available in the departmental office.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Engineering 2060</td>
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<td>Electrical Engineering 2120, 2121, 2130, 2230, 2231, 2720</td>
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<th>SEM. HRS.</th>
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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, Math 1052, and Physics 2102 is required before students may register for any electrical engineering course other than Electrical Engineering 2720.*

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<td>Physics 2101, 2108</td>
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<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Industrial Engineering 4302 or 4382</td>
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</table>

**Engineering Science**

The College of Engineering offers an interdisciplinary program leading to the degree of Bachelor of Science in Engineering Science. The present curriculum in engineering science (basic option) is accredited by the Engineers' Council for Professional Development. Extension of the accreditation will not be requested when it expires in 1980.

Degree requirements include core courses with options available to students who have definite career goals that cannot be satisfied by a conventional engineering discipline. The engineering science program draws on the courses and faculty members of all departments in the college. Interested students should contact the Director of Instruction of the college for details of the program requirements or for other information.
Engineering Technology

Recognizing the growing need for individuals trained in the application of fundamental sciences and engineering concepts to many engineering problems encountered in industry today, the college established the curriculum in engineering technology in 1972. This degree program is administered by the College of Engineering.

The four-year program is designed to provide industry with technologists who can work with engineers as well as direct the work of skilled craftsmen in developing new designs, materials, or products. Like professional engineers, engineering technologists are members of the engineering team. Their training develops practice-oriented skills, as opposed to the more mathematical and theoretical capabilities of the engineer. The engineering technologist applies scientific knowledge and engineering methods in combination with technical skills to support overall engineering activities.

Training in basic engineering design technology prepares the individual for employment as an engineering assistant, production planner, tool designer, job-methods technician, product designer, customer-service engineer, specifications writer, or engineering draftsman. The curriculum is designed to produce a technologist broadly trained to carry out assignments in data acquisition and design. The curriculum also contains an elective group to give background to work effectively in a specific discipline or to carry out specialized functions appropriate to interests or needs of a particular industry. The demand for technologists to fill such assignments is greater than the current output. Thus, excellent job opportunities exist for qualified individuals.

Engineering technology students begin the mathematical sequence with college algebra. While normal entry into the curriculum is through Junior Division, some students may earn initial credits applicable to the engineering technology program through enrollment in the Drafting Institute, sponsored by the Division of Continuing Education.

CURRICULUM IN BASIC ENGINEERING DESIGN TECHNOLOGY

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.: 135-136</th>
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<tr>
<td>Engineering Graphics 1001, 1004</td>
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</tbody>
</table>
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 Engineers' Council for Professional Development.

**CURRICULUM IN INDUSTRIAL ENGINEERING**

**TOTAL SEM. HRS.: 136**

**Industrial Engineering Electives:** Choose from Industrial Engineering 4382, 4453, 4486, 4490, 4540, 4607, 4620, 4785, and Computer Science 3371. Technical electives must be chosen from Accounting 2001, Mechanical Engineering 3133, 4653, Computer Science 3371, or any technical course approved by the department chairman.

**FRESHMAN YEAR**

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<thead>
<tr>
<th>Course</th>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<tr>
<td>Engineering Graphics 1001</td>
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</tr>
<tr>
<td>English 1001, 1002</td>
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<tr>
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<tr>
<td>Physics 2101, 2108</td>
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**SOPHOMORE YEAR**

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<td>Engineering 2000</td>
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<td>Industrial Engineering 2153, 2154</td>
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**JUNIOR YEAR**

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<td>Civil Engineering 3400</td>
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<tr>
<td>Industrial Engineering 4201, 4302, 4362, 4419, 4510</td>
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<td>Approved humanities/social studies electives</td>
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<tr>
<td>Approved industrial engineering electives</td>
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<tr>
<td>Approved technical electives</td>
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<td><strong>Total</strong></td>
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**SENIOR YEAR**

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<tr>
<td>Mechanical Engineering 3333, 3711, 3733, 4601</td>
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<tr>
<td>Approved humanities/social studies electives</td>
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</tr>
<tr>
<td>Approved industrial engineering electives</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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</table>

**Department of Mechanical Engineering**

Mechanical engineering uses the principles of all basic sciences to develop and produce useful devices with the broadest application of all engineering fields. The problems that confront mechanical engineers originate, to a very large extent, in design, manufacture, selection, and operation of machines and systems. They are specifically concerned with research, analysis, design, and development of mechanical devices which include such items as prime movers, vehicles, production machinery, and general engineering products.

The mechanical engineer, in today's rapidly expanding technology, occupies a position of importance and increasing complexity. Practically all basic scientific and engineering achievements must be reduced to mechanical form in order to benefit society. Nearly all of the end products and the industrial equipment needed to produce these products fall within the province of the mechanical engineer.

Within the context of mechanical engineering, the subject of power now includes not only steam and internal combustion engine power sources, but also rockets and nuclear engines and such new forms as plasma and ion engines. Transportation has developed to include jet airplanes, rockets, missiles, and spacecraft. Advances in many fields have created demands for control of the environment of people and their equipment. Included within the basic specialties of mechanical engineering are instrumentation, machine computation, control, and guidance systems. With each advance in science and technology, the province of the mechanical engineer will expand to include new areas of specialization.

The demand for mechanical engineering graduates far exceeds the supply. Graduates have a wide field to choose from both as to location and field of specialization. Some of these fields are power, automotive, space, aeronautics, refrigeration, and machine design. Almost every phase of government, business, and industry utilizes the services of mechanical engineers. Graduates are also provided with a background that readily qualifies them for future managerial positions.

The mechanical engineering curriculum is accredited by the Engineers' Council for Professional Development.

**CURRICULUM IN MECHANICAL ENGINEERING**

**TOTAL SEM. HRS.: 135**

**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>
<td>Engineering Graphics 1001</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>10</strong></td>
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</tbody>
</table>

(Continued column 1 next page)
Department of Petroleum Engineering

Although the petroleum engineering curriculum is designed primarily for careers in the drilling and producing part of the petroleum industry, it is suitable for careers in other areas of well work, such as ground water hydrology, geothermal energy, solution mining, and underground storage or disposal of gases and liquids. Professional courses in drilling and production well design, reservoir engineering, petrophysics, well logging, and the phase behavior of hydrocarbon systems follow basic coursework in mathematics, chemistry, physics, geology, and the engineering sciences. Special attention is given to the economic evaluation of drilling and production ventures and 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 for registration as a professional engineer during the senior year.

The petroleum engineering curriculum is accredited by the Engineers' Council for Professional Development.

**CURRICULUM IN PETROLEUM ENGINEERING**

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.: 132</th>
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<tbody>
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<td>Chemistry 1201, 1202, 1212</td>
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<tr>
<td>English 1001, 1002</td>
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<td>Physics 2101, 2108</td>
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<td><strong>JUNIOR YEAR</strong></td>
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<td>Electrical Engineering 2920</td>
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<td>Geology 3031</td>
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<td>Mechanical Engineering 3333</td>
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<td>Petroleum Engineering 3031, 3032, 3033, 3034, 3036</td>
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<tr>
<td>Approved humanities/social studies electives</td>
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</tbody>
</table>

*Mechanical Engineering 2833 is cross-listed with Civil Engineering 2200.*
Petroleum-Chemical Engineering (Five-Year Program)

This combined curriculum includes essentially all course material of the petroleum and the chemical engineering curricula. It is designed primarily for careers in the petroleum industry in areas where a knowledge of both engineering fields is desirable, and it provides additional dimensions for those who seek careers in the drilling and producing aspects of the petroleum industry.

Graduates of this combined curriculum may become registered professional engineers in either petroleum or chemical engineering or both.

**CURRICULUM IN PETROLEUM-CHEMICAL ENGINEERING**

**TOTAL SEM. HRS.: 167**

A grade of "C" or better in each of the basic science preparatory courses completed—Chemistry 1201 and 1202, Physics 2101 and 2102 (or 1201 and 1202), and Math 1050, 1052, and 2065—is required before students may register for any chemical engineering course other than Chemical Engineering 2171.

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>SEM. HRS.</th>
<th>SECOND YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
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<td>Chemistry 1201, 1202, 1212</td>
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<td>Chemistry 2261</td>
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<td>English 1001, 1002</td>
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<td>Civil Engineering 2450</td>
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<td>Geology 1001, 1601</td>
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<td>English 2002</td>
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<td>Petroleum Engineering 2020</td>
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<td></td>
<td>Physics 1202, 1209; or 2102, 2109</td>
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<td>Electives or ROTC</td>
<td>3-4</td>
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<td>Approved humanities/social studies electives</td>
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</table>

Sugar Engineering

The degree of Bachelor of Science in Sugar Engineering is offered through the Department of Chemical Engineering. The curriculum permits the choice of a wide variety of minor subjects.

**CURRICULUM IN SUGAR ENGINEERING**

**TOTAL SEM. HRS.: 133**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Computer Science 2260</td>
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<td></td>
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<td>33-34</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 science 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, radio-chemistry, radiation chemistry, nuclear-reaction analysis, industrial isotope applications, non-destructive testing, health physics, radiation protection, and personnel monitoring. Opportunities are provided for work with the LSU System Network Computer Center and the National Laboratories of the United States Department of Energy.

**SPECIAL PROGRAMS**

The college offers a cooperative work-study program in civil, chemical, industrial, mechanical, or electrical engineering. The primary purpose of this program is to integrate classroom work and practical industrial experience through an organized program in which students alternate periods of classroom attendance and employment in industry. Its 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. This arrangement provides a measure of financial assistance for students. 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.

The College of Engineering conducts a Drafting Institute, in cooperation with the Division of Continuing Education, which is designed to prepare the students to work as draftsmen. 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 Baton Rouge 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.

**DIVISION OF ENGINEERING RESEARCH**

The Division of Engineering Research was established in 1924 as the Engineering Experiment Station to render service to the people of Louisiana and to the nation. It conducts engineering research and directs investigations in cooperation with industries of the state.

The work of the division has five purposes: (1) to provide a means of research to broaden engineering knowledge for use in academic teaching; (2) to investigate and publish information concerning engineering problems of importance in municipal, rural, and industrial affairs; (3) to undertake research and publish reports on engineering and scientific problems in the University and in cooperation with private and public agencies; (4) to provide opportunities for graduate engineers to conduct research which will prepare them most effectively for advanced and professional service; and (5) to provide a technology transfer program in the vital areas of engineering. These aims are accomplished through the cooperation of the several departments and institutes of the college. All departmental laboratories are available for engineering research.

The Engineering Research Council is composed of a representative from each of the departments of the college and one from the Nuclear Science Center. The dean of the college and the director of the Division of
Engineering Research are ex officio members. A senior faculty member serves as chairman. This council acts as a policy-forming body and advises the director of the Division of Engineering Research.

**PLACEMENT SERVICES**

The Center for Engineering and Business Administration Placement Office arranges for students in engineering and business administration to be interviewed on campus by recruiters from more than 400 employers for both summer and permanent employment. Students should contact this office as soon as they register each fall semester in order to receive information concerning job opportunities. This service is also extended to students from the College of Chemistry and Physics and to students majoring in agricultural mechanization, construction, industrial technology, mathematics, and merchandising, as well as to alumni.

**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. The officers of the Engineering Council are elected in a general student election conducted each spring by the Student Government Association. 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, the Engineering Athletic League, and the annual recognition of Engineers' Week.
The major responsibilities of General College are (1) to coordinate activities that relate to admission, testing, financial aid, counseling, and career opportunities of students; (2) to coordinate activities and services rendered to academic departments such as student-record keeping, test-scoring services, institutional research, audio-visual services, and others; and (3) to provide meaningful programs of study for students whose career plans require undergraduate curricula that are too broad in nature to be logically or appropriately assigned to one academic school or college.

Thus, General College is committed to goals which recognize the status of the University as the state university; the worth and dignity of individuals; and a high degree of accountability to students, staff, faculty, the institution, and the general public in every aspect of its work. This college is also committed to helping students plan individual programs of study which conform to high standards of excellence, but also permit students to achieve individual professional and educational goals of an interdisciplinary nature.

Division of Academic Services

ALBERT L. CLARY, Director
114 David Boyd Hall

The Division of Academic Services consists of the Office of Admissions, Office of High School Relations, Office of Student Aid and Scholarships, and Office of Student Records and Registration.

The Office of Admissions is responsible for administering University policies relative to undergraduate admission and for providing support to the admissions offices of the graduate and professional schools. It also provides information concerning University academic programs and general information about the University for prospective students.

The Office of High School Relations conducts the following activities: high school literary, speech, and

*At the time this section of the catalog went to press, General College was in the process of reorganization. See the "Organization Chart," page 12, for the new structure of General College.
music rallies; visitation programs to acquaint prospective high school students with the academic programs and opportunities at the University; High School Leadership Conference; marching and drill workshops; cheerleader camps; and guided tours for prospective students. The office also coordinates other activities sponsored by the University for students, teachers, and counselors throughout the state. The University welcomes the cooperation of teachers, counselors, and administrators of Louisiana schools in its high school service program.

The Office of Student Aid and Scholarships coordinates loans, jobs, and undergraduate scholarships. The office is dedicated to providing the best possible counsel to assist students in solving their financial problems.

The Office of Student Records and Registration is responsible for maintaining and preserving official academic records of students; providing transcripts of student records, grade reports, and statistical reports; assessing scholastic fees; and authorizing exemptions and refunds. The office carries out responsibilities of the University under the several laws relative to benefits of veterans, dependents of deceased veterans, students receiving social security benefits, and students receiving assistance from a number of local, state, and federal agencies. The office is also responsible for planning and coordinating preregistration and registration of students.

Junior Division

VINCENT E. CANGELOSI, Dean
JOHN R. BAKER, Associate Dean
150 Allen Hall

Junior Division is the academic and administrative college for all freshmen at LSU as well as that for all transfer students who have attempted fewer than 70 semester hours of work and do not meet requirements for admission to a senior college.

This freshman division is concerned with all types of student needs, especially those relating to choice of curricula and to personal adjustment during the transition from high school to college. Consequently, Junior Division has four chief functions: (1) to give first-year students more assistance than is ordinarily given in senior colleges; (2) 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; (3) to give students the benefit of professionally trained college counselors; and (4) to supply the various senior colleges with a select group of students prepared to engage in specialized training and education.

The chief administrative officer of the Junior Division is the dean. The Junior Division Council exists to advise the dean in administration of the academic affairs and policies of the division. The council serves as a liaison between the division and other academic units of the University.

COUNSELING AND FRESHMAN ORIENTATION

Every JD student has access to the full-time counseling staff of Junior Division. Students may obtain assistance from counselors in choice of a career and in working through problems of an academic or personal nature.

To complement JD's counseling program, the University has a system of faculty advising for all incoming freshmen. This system provides personal contact between each freshman student and a faculty member from the department in which the student has expressed special interest. The initial contact should be made prior to completion of the registration process.

To aid freshmen in adjusting to college life and choosing their courses of study, a period of time prior to walk-through registration is designated as “Freshman Orientation.” This period is devoted to conferences with advisers, tests in certain subject areas, and presentations of information important to new students. Registration briefings are included to provide an understanding of the registration process.

Academic Orientation 0001 (AcOr 0001) is a non-credit course designed to acquaint students with the services, policies, and procedures of JD. For a further description of AcOr 0001, see page 225.
AMERICAN COLLEGE TESTING PROGRAM

Students planning to enter the University must take the test of the American College Testing Program (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 suitable level and to determine eligibility for consideration for advanced placement with 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 Junior Division Office, 150 Allen Hall; any high-school guidance counselor; or the Registration Department, American College Testing Program, P. O. Box 414, Iowa City, Iowa 52240.

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.

Freshmen who have not decided on a field of study should schedule one course in each of the following subjects or subject areas during their first semester: English, mathematics, biological or physical science, social science, and liberal arts. Credits earned in these courses usually apply toward meeting degree requirements in all areas. Students who have not decided on a field of study will have an opportunity to participate in academic and vocational counseling sessions during their first enrollment.

No student, except by permission of the dean, will be allowed to schedule more than 19 hours in any semester. No student may receive credit for more than 21 hours taken in one semester.

PREPROFESSIONAL PROGRAM IN PRE-NURSING

LSU does not offer a degree in nursing on the Baton Rouge campus. Baccalaureate programs in some schools of nursing are based on a one-year academic preprofessional program, followed by three years in the professional school. Others are based on a two-year academic preprofessional program and a two-year professional program at a school of nursing. Students who seek a one- or two-year preprofessional program may choose to meet their requirements at LSU through Junior Division, though no student may remain in Junior Division after the completion of 70 hours of credit.

All prospective nursing students should obtain a list of the specific requirements from the particular school of nursing to which they will seek admission. Admission to a school of nursing, including the LSU Medical Center School of Nursing in New Orleans, is on a competitive basis upon submission of a written application. Students who are admitted to the LSU Medical Center School of Nursing must meet the minimum residence requirements of the program in New Orleans (usually three years) regardless of the number of semesters or hours taken at LSU.

The following curriculum has been approved for students who wish to apply for a Bachelor of Science degree at the LSU Medical Center School of Nursing in New Orleans. It is recommended that a freshman enter the curriculum in the summer term prior to the first fall semester in order to facilitate the completion of the required pre-nursing courses. The professional school in New Orleans admits students for the fall semester only.

CURRICULUM IN PRE-NURSING

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
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</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
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<tr>
<td>Mathematics 1011 or 1021</td>
<td>3</td>
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<tr>
<td>Microbiology 2051</td>
<td>4</td>
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</table>

*Student must qualify for Math 1021 to be eligible to schedule Chemistry 1201.
**Select courses in art, art history, communication, computer science, foreign language, music appreciation, philosophy, or speech.
***Select courses in economics, education, geography, history, political science, or anthropology.

CLASSIFICATION OF JD STUDENTS

Students in Junior Division are classified as JD-1, JD-2, or JD-3.

Beginning freshmen are classified as JD-1; this classification will apply until they have earned a maximum of 29 semester hours of credit and 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.
Those who have earned 60 or more semester hours of credit, but who have not met requirements for admission to a senior college, are classified as JD-3.

Students may not register in Junior Division after the cumulative record shows a total of 70 semester hours attempted.

ELIGIBILITY TO ENROLL IN COURSES NUMBERED ABOVE 1999

JD students may enroll in courses numbered above 1999 only in accordance with the following regulations:

1. *Courses numbered 2000–2999:* JD students may be admitted to courses numbered 2000–2999 provided all stated prerequisites are met, either by advanced placement or by completion of prerequisite courses. If no prerequisites are listed, admission may be granted to students who are classified as JD-2 or JD-3. JD-1 students may be admitted if they have a composite ACT score of at least 23, an overall grade-point average of at least 2.50 on LSU work, or acceptable transfer credit.

2. *Courses numbered 3000 or above:* JD students will not be permitted to register for courses numbered 3000 or above unless they have accumulated at least 60 semester hours of credit.

HONORS PROGRAM

Entering freshmen whose ACT composite scores are 27 or better 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 admission for the second semester.

The core courses of the freshman honors curriculum are Arts and Sciences 1001, 1002, 1003, and 1004. These team-taught, interdisciplinary courses investigate the historical, conceptual, and cultural roots of Western civilization. Students satisfactorily completing these courses are not required to take freshman English.

For further information on this program see pages 112 and 308.

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. Further information concerning these examinations is given in the section of this catalog entitled "University Regulations," page 56.

ACADEMIC SKILLS ENHANCEMENT PROGRAM

An Academic Skills Enhancement Program (ASEP) was initiated for students who enter LSU with demonstrable gaps between their levels of preparation and the levels expected in standard freshman courses. General College administers the ASEP, with specific responsibility for coordinating it assigned to Junior Division. The program consists of writing skills (English 0003 and 0006), quantitative skills (Math 0004 and 0005), reading skills (Education 0001), and study skills (Academic Orientation 0006). ASEP courses are graded on a pass/no credit basis, but students may be required to repeat a course until a passing grade ("P") is earned.

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.

ADMISSION TO A SENIOR COLLEGE FROM JD

Junior Division students may obtain admission to a senior college when they:

1. earn 24 or more hours of credit and have at least a 2.00 average on all work attempted; and
2. satisfactorily complete the special requirements that a particular college may have.

No student whose cumulative record shows a total of 70 or more hours attempted may register in Junior Division. Students who reach 70 hours without achieving at least a 2.00 cumulative average will not normally be allowed to continue in the University.
SCHOLASTIC REGULATIONS FOR JD 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:* Students who have a cumulative grade-point average of 2.00 ("C") or higher on all college work attempted and on all work attempted in the LSU System are considered to be in good academic standing. A 2.00 average is earned when the number of quality points is twice the number of hours attempted.

Scholastic regulations embody the academic standards of a university. The application of the following regulations aims at upholding the standards of this University—specifically, to impose the requirement of 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

*Students not on scholastic probation:*

a. 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.

b. 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"); (2) placed on scholastic probation if their cumulative average is at least 1.00 but less than 1.50.

c. Students who have carried 24 or more hours of college work will be (1) dropped from the University if their cumulative average is below 1.00; (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").

*Students on scholastic probation:*

a. Students can be placed on scholastic probation only on the basis of unsatisfactory grades made in college.

b. 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").

c. Once placed on probation, students will remain on probation each enrollment until they have regained good academic standing.

Students Dropped from the University

1. Students who are dropped for the first time for academic reasons are not eligible for consideration 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.

2. 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.

3. 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. However, they may register on a noncredit basis for correspondence courses offered by the University.

4. 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 records of any student for any course dropped after the second (first in summer term) but not later than the sixth week (third week in summer term) after the date of the beginning of classes for the semester. From that date until three weeks (10 days in summer term) before the last day of classes, a grade of "WA," "WB," "WC," "WD," or "WF" will be assigned in any course dropped. Thereafter students may not drop courses unless authorized to do so by their dean. This regulation applies to all courses dropped, including any dropped when the student resigns from the University. A student who receives "F" or "WF" grades in a course must repeat the course in the LSU System in order to receive credit for it.

When a student resigns or is dropped, the average of all withdrawal grades will be used to determine the student's academic status. A student may be permitted to resign without receiving grades if the withdrawal is caused by illness or other extenuating circumstances, as determined by the dean. Grades of "WA," "WB," "WC," or "WD" are recorded by the Office of Student Records and Registration but do not change the student's cumulative credit and quality-point totals. A grade of "WF" is recorded, and has the effect of an "F" on the permanent record.

Notification of Academic Status

Students who have completed at least one college enrollment will be notified in writing if there is a possibility of their being dropped from the rolls of the University at the end of their next enrollment.

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.

Students who are reported as not attending classes for which they are registered may be dropped from the University at the discretion of the dean of Junior Division.

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 do so with approval of the dean of Junior Division and through procedures prescribed by the University. 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.

University College

RALPH L. W. SCHMIDT, Dean
NAN SINGLETON, Associate Dean
150 Himes Hall

University College is a senior college which was established at LSU in 1951 to provide college educational opportunities for individuals unable to attend on a full-time basis. Since the beginning of the fall semester of 1970-71 students in this college may attend on either a part-time or full-time basis. Students enroll in University College to pursue a degree program, take courses to improve their educational
background for professional or business interests, and take courses to help satisfy avocational interests. In addition, some students enroll to prepare for graduate school.

University College offers two undergraduate degrees, the Bachelor of Science in General Studies and the Bachelor of Criminal Justice, as shown in the following chart.

The counseling program in University College provides students with an opportunity to seek assistance in both academic and personal matters. Conferences may be scheduled with a counselor through the office of the dean.

![Chart showing departments and curricula](chart.jpg)

**DEPARTMENTS/CURRICULA**
- General Studies
- Criminal Justice

**DEGREES**
- Bachelor of Science in General Studies
- Bachelor of Criminal Justice

**PROGRAM FOR ADULT SPECIAL STUDENTS**

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 adult citizens to 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 to rejuvenate the mind. Admission and registration procedures are simplified for added convenience. For additional information see page 34.

**PART-TIME STUDENTS**

Part-time students on campus may enroll in University College to work toward one of two baccalaureate degrees. However, one of the special functions of University College is the enrollment of part-time students who take University courses for credit but who are not necessarily interested in working toward a degree. A part-time student not classified in the "PASS" category (above) must complete a regular admission form and meet regular admission requirements.

**ADMISSION REQUIREMENTS AND GENERAL INFORMATION**

To be eligible for consideration for admission to University College, a student must first meet the general admission requirements of the University. (See "Admission to the University," page 29.) Students transferring from other senior colleges within the University are eligible for consideration for admission to University College only if they are eligible to continue in the University. Students transferring from Junior Division must have completed 24 semester hours with an overall 2.00 average or be recommended for admission by the Junior Division Council.

Students enrolled in University College must adhere to all rules and regulations of the University regarding scholastic and attendance requirements.

Regulations governing incomplete ("I") grades are shown in the section of this catalog entitled "Grading Systems," page 60, item 3.

**MAXIMUM COURSE LOAD AND CORRESPONDENCE WORK**

The maximum load for which a University College student 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. Students enrolled in correspondence work must complete the final examination in the course before they will be allowed to register for the maximum of 18 hours.

Students in University 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 who hold one baccalaureate degree may wish to obtain a baccalaureate degree in University College as a second degree. To do so, they must complete in residence in the college a program of studies comprising a minimum of 30 semester hours of credit earned. All stated degree requirements of the college and the University must be completed.

THE BACHELOR OF SCIENCE IN GENERAL STUDIES DEGREE

University College grants the degree of Bachelor of Science in General Studies based on the conditions and requirements listed below.

1. A minimum of 128 semester hours is required for the degree.
2. Eighteen hours must be earned in each of the three groups listed as follows:

   **Group I, Humanities**
   - English
   - Fine Arts
   - Languages
   - Music
   - Speech

   **Group II, Social Sciences**
   - Anthropology
   - Economics
   - Geography
   - History
   - Philosophy
   - Political Science
   - Psychology
   - Sociology

   **Group III, Natural Sciences**
   - Astronomy
   - Biology
   - Botany
   - Chemistry
   - Engineering
   - (technical only)
   - Entomology
   - Geology
   - Mathematics
   - Microbiology
   - Physical Science
   - Zoology

3. In addition to the 54 required semester hours (18 in each of the three groups), 22 semester hours must be taken in one of the three groups, making a total of 40 hours in one group for a concentration.
4. The remaining 52 semester hours are elective and must be chosen with approval of the dean or his representative. An elective may be either within or outside the three groups.
5. A minimum of 6 semester hours of English, including English 1002, is required. Students entering LSU for the first time must take ACT before they can register for English. Those students already in school who have not had the English Placement Test must take ACT before they can register for English.
6. All students obtaining a degree from University College, whose grade in English 1002 or 1003 is lower than "C," must pass the English Proficiency Examination during the junior year. Students who fail this examination must attend the English Writing Laboratory operated by the Department of English until the English Writing Laboratory verifies to University College their ability to use English effectively.
7. A minimum of 30 semester hours out of the total of 128 must be taken in courses numbered above 3000. Of these, 20 semester hours must be in courses within the concentration group.
8. A maximum of 9 semester hours in mathematics courses numbered below 1050 will be allowed toward a degree.
9. Not more than 50 semester hours in courses numbered below 2000 can be taken for degree credit.
10. A 2.00 average in all work taken in University College, a 2.00 average in the concentration group, a 2.00 average on work taken at LSU, and a 2.00 average on the entire college record are required.
11. A minimum of 30 semester hours of credit earned in residence after admission to University College is required for graduation. In addition, of the final 30 semester hours offered for the degree, at least 12 must be earned in residence in University College. Correspondence work or credit earned by advanced-standing examinations is not accepted as residence credit.
12. No more than 24 semester hours in any one subject may be used for the degree.

In addition to the above requirements, general degree requirements for the University must be fulfilled.
The student bears the final responsibility for selection of courses and adherence to all published regulations and requirements of the college and the University.

THE BACHELOR OF CRIMINAL JUSTICE DEGREE

University College grants the degree of Bachelor of Criminal Justice. This program is designed to give students broad career preparation, including foundation in general courses and specialization in criminal justice subjects.

The general regulations and scholastic requirements for this degree are the same as those previously outlined for the Bachelor of Science in General Studies degree.

CURRICULUM IN CRIMINAL JUSTICE

TOTAL SEM. HRS.: 132

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<th>SOPHOMORE YEAR</th>
<th>SEM HRS.</th>
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<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>Criminal Justice 2151, 2152, 2209</td>
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<td>Criminal Justice 1107, 1108, 1110</td>
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<td>English 1001, 1002</td>
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<td>Psychology 2000, 2004</td>
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<td>Sociology 2001</td>
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<td>Mathematics 1006, 1009, 1010, 1021, or 1022</td>
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<td>Speech 2060</td>
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<tr>
<td>Office Administration 2000</td>
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<td>Laboratory science (chemistry, physics, botany, biology, or zoology)</td>
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<td></td>
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<td>Electives or ROTC</td>
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<td>Criminal Justice 2153, 3101, 3170, 3171</td>
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<td>Criminal Justice 3130, 3131, 3172, 3173</td>
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<td>Management 3159</td>
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<td>Political Science 4020, 4021</td>
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<td>Political Science 2056; and 4015 or 4016</td>
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<td>Social Welfare 3007</td>
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<td>Sociology 2501</td>
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<td>Sociology 4461</td>
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<td>Speech 2064</td>
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<td>Approved electives</td>
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</table>

Department of Construction

BEVERLY J. COVINGTON, Chairman
2519 CEBA Building

The Department of Construction offers appropriate background for students planning careers in the construction industry. As indicated in the following chart, only one degree, the Bachelor of Science in Construction, is offered. However, the curriculum provides students with opportunities for study in the areas of commercial, heavy-highway, industrial, and residential construction.

The department recognizes that its graduates are professionals distinct from engineers and architects. The curriculum offers a broad technical education which includes basic science, mathematics, engineering, and architectural design. The professional component of the curriculum provides a thorough understanding of the construction industry and prepares students for management-level positions in construction.
ADMISSION REQUIREMENTS

*Junior Division students* will be admitted to the Department of Construction if they meet the following requirements:
1. a minimum of 24 semester hours with a grade-point average of 2.00 or better; and
2. grades of "C" or better in all mathematics and science courses taken for degree credit.

*Students who transfer* from other divisions of the University or from other accredited colleges and universities will be admitted if they meet the above requirements for admission from Junior Division.

TRANSFER OF CREDIT

Students enrolled in this department who wish to use credit obtained from other accredited colleges or universities toward satisfying degree requirements at LSU must obtain prior approval to do so from the department chairman.

DEGREE REQUIREMENTS OF THE DEPARTMENT

To qualify for a bachelor's degree in this department, candidates must:
1. complete a program established by the department and be approved for the degree by the faculty (substitutions for courses listed in the curriculum must have the approval of the department chairman);
2. earn at least a 2.00 average on all courses required in the department and a minimum overall average of 2.00;
3. earn at least 24 of the last 30 semester hours offered toward the degree in residence in the Department of Construction;
4. attain proficiency in English by earning at least a grade of "B" in English 1002 or "C" in English 1003;
5. assume responsibility for the check-out of all coursework required for the degree. Application for the bachelor's degree must be approved by the department chairman prior to the final date for adding courses for credit in the semester in which graduation is anticipated.

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 department and completing a minimum of 30 semester hours beyond their previous degree requirements. A minimum 2.00 average must be earned on this subsequent work.

CURRICULUM

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Construction 1011, 1511, 1583</td>
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<td>Economics 2030</td>
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<td>Environmental Studies 1000</td>
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<td>Industrial Education 2051</td>
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<td>Finance 3201</td>
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<td>Industrial Engineering 4201</td>
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<td>Industrial Education 2024</td>
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<td>Management 3159, 4167</td>
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<td>Approved business administration electives (3000-4000 level)</td>
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<td><strong>TOTAL SEM. HRS.: 33</strong></td>
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<td><strong>Approved electives (3000-4000 level)</strong></td>
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</table>
The Institute for Environmental Studies is responsible for coordinating programs of a campus-wide nature in environmental studies. Its functions are to promote and conduct research, to disseminate knowledge, and to provide general public service directed toward conserving environmental quality.

The general objectives of the institute are: (1) the advancement of knowledge and understanding of our physical environment and the impact of modifications imposed by man; and (2) the development of solutions to environmental quality problems.

The institute, administratively a part of General College, functions in an interdisciplinary capacity. This role is underscored by the broad representation on the institute's Advisory Council which includes representatives of the Colleges of Agriculture, Arts and Sciences, Business Administration, Chemistry and Physics, Design, and Engineering; the Center for Wetland Resources; and the School of Veterinary Medicine.

In its instructional role, the institute offers environmentally oriented courses that are interdisciplinary in nature. It 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 including interests in both environmental quality and saline studies. It also functions in a liaison capacity with other LSU research organizations concerned with environmental matters.

The Instructional Resources Center, a department of General College, supports the instructional process of the University by providing faculty and staff with equipment, personnel, and services in the area of educational media.
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 also be obtained from the Office of Admissions.

Graduate Division of Education

FRED M. SMITH, Director
225 Peabody Hall

The Graduate Division of Education provides teachers with opportunities for advanced study and specialization in specific areas in the profession, provides opportunities for research, stimulates in-service training and growth, and develops the spirit of scholarship and excellence in education. Master’s programs offered through the division are accredited by the National Council for Accreditation of Teacher Education.

DEGREES

The Graduate Division of Education offers the Master of Education degree and the Certificate of Education Specialist.

The Master of Education degree is awarded with a major in education and concentration in administration, educational media, elementary education, guidance, reading, secondary education, special education, or supervision. Students concentrating in guidance may specialize in elementary school counseling or secondary school counseling. Areas of specialization within the special education concentration are mental retardation, emotional disturbances, hearing impairment, administration of special education, and specific learning disabilities.

The Certificate of Education Specialist is awarded with a major in education and concentration in administration, educational media, elementary education, guidance, reading, secondary education, or special education.
ADMISSION REQUIREMENTS

Admission to the Graduate Division of Education is based on the following: (a) a bachelor’s degree from an accredited college or university; (b) possession of a valid teaching certificate; (c) completion of a minimum of 18 semester hours in professional education (education and psychology) courses; (d) a grade-point average of at least 2.50 ("A" = 4) for undergraduate work and 3.00 in completed graduate work for which a grade is given; (e) satisfactory academic standing at the last institution attended.

A student meeting all of the above requirements, including appropriate admission forms and necessary credentials, is normally granted regular admission. Applicants who satisfy all of the above prerequisites, but whose undergraduate grade-point average is less than 2.50—but at least 2.00—are granted probationary admission. Applicants who appear eligible for admission, but who are unable, for good reasons, to supply all of the required credentials prior to the stated deadline are granted provisional admission. In such cases, complete credentials must be received no later than 60 days after the first day of classes (45 days in the summer term). An applicant who fails to meet the requirements as stated above will be reconsidered for probationary admission after the successful completion of at least nine semester hours of post-baccalaureate work in undergraduate status. Post-baccalaureate work may not be used toward the degree.

Prospective students are advised that applications for admission must be received in the Office of Admissions before December 1 for the spring semester; May 1 for the summer term; and July 1 for the fall semester. A nonrefundable late fee of $15 is charged those students whose applications are received after the above deadlines. This late fee is in addition to the regular $10 nonrefundable fee which must accompany all applications.

Students are expected to have taken the aptitude portion of the Graduate Record Examination prior to admission; however, the examination may be taken during the first semester of enrollment. Scores must be submitted to the Office of the Graduate Division of Education.

Students whose native language is not English are requested to submit scores on the Test of English as a Foreign Language (TOEFL), administered by Educational Testing Service. For information about this test, write ETS, Princeton, New Jersey 08540.

COURSES

Courses numbered 5000 and above are open to graduate students only. Students admitted on a probationary basis may not enroll in 7000-level courses until they have earned nine semester hours of graduate credit in courses numbered below 7000.

Graduate School

JAMES G. TRAYNHAM, Dean
MARY FRANCES HOPKINS, Assistant Dean
NORWIN E. LINNARTZ, Assistant Dean
128 David Boyd Hall

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 unconditional 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 transcripts of previous work and who have satisfactory scores on the aptitude portion of the GRE, 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 remain in Graduate School. 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 requirements more rigid than these minimum standards and may impose other special admission requirements and conditions. Applicants of borderline eligibility (2.50 to 2.75 grade-point average) who are admitted should realize that their progress toward an advanced degree may be somewhat slower and that they may have to take more courses than usually required for students in their department.

Graduate Admission of United States Students

Admission to the Graduate School requires: (1) a bachelor's degree from an accredited college or university; (2) minimum grade-point average of 2.50 ("A" = 4) for all undergraduate work taken prior to receiving a degree and 3.00 for all previous graduate work for which a grade is given; (3) satisfactory academic standing at the last institution attended; (4) satisfactory scores on the aptitude portion of the Graduate Record Examination (GMAT may be substituted in some cases by students seeking admission in the various departments of the College of Business Administration); and (5) acceptance into a departmental program. 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 the area tests administered by Educational Testing Service or on the advanced portion of the Graduate Record Examination before their applications can be considered.

Graduate Admission of Foreign Students

An applicant who has not completed undergraduate degree requirements at an accredited U.S. institution must present the following: (1) a complete and accurate chronological outline of all previous college-level education; (2) authorized school or university records—transcripts, mark sheets, 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 satisfactory average from an accredited college or university; (4) certification of the availability of sufficient funds to meet all costs while studying at LSU; (5) satisfactory scores on the aptitude portion of the Graduate Record Examination (Graduate Management Admission Test, where appropriate); and (6) scores on the Test of English as a Foreign Language (TOEFL) for those foreign applicants whose native language is not English.

Applications from foreign students will not be accepted after July 1 for the fall semester, December 1 for the spring semester, and May 1 for the summer term. Applications received after these dates will automatically be processed for the following semester or summer term. 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.

TOEFL is an essential part of the student’s application and must be taken and satisfactorily passed prior to the student’s being considered eligible for admission to Graduate School. In order to be acceptable, a TOEFL score must be at least 525 (550 for consideration for a graduate assistantship).

The foreign student credentials analyst in the Office of Admissions determines whether the applicant’s grades and coursework are equivalent to a bachelor’s degree from LSU. The applicant’s grades must be the equivalent of a "B" average or better (3.00 out of a possible 4).

Foreign applicants are admitted to the Graduate School on the assumption (based primarily on TOEFL scores) that they are sufficiently fluent in writing and speaking English to enable them to make normal progress in their programs of graduate study. Unless exempted at the time of admission, all foreign applicants whose native language is not English are admitted to the Graduate School only provisionally and must take the LSU Comprehensive English Language Test after arrival on campus and before registration. If the test results indicate a deficiency in English, the student will be required to register for the appropriate
English language courses with a reduced load of graduate courses. In case of a major deficiency in English, the Graduate School may require the postponement of enrollment in graduate courses until the language deficiency is corrected.

The foreign applicant also must provide certification of financial ability to pursue a graduate program at LSU before the permit to register and Form I-20 will be mailed, unless the applicant has been offered a graduate assistantship.

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.

A foreign 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 of graduate admissions of the appropriate department. The application must be accompanied by a $10 nonrefundable application fee. An additional nonrefundable $15 late fee will be assessed 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.

Final admission decisions are made only after receipt of all credentials. Credentials include: (1) official transcripts of all college work previously taken, including both undergraduate and graduate work, showing all degrees previously awarded; and (2) scores on the aptitude portion of the Graduate Record Examination (Graduate Management Admission Test, where appropriate).

Admission is only for the semester requested. Persons who are admitted and do not register must make a formal request for reconsideration for admission for a subsequent semester.

Students previously registered in the Graduate School who wish to resume work after an absence of a semester or longer may be required to submit an application for readmission. Since the late application fee also applies to applications for readmission, students should determine sufficiently early whether this application is needed. 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.

An applicant meeting the above requirements but not desiring to work toward a degree at LSU may register as nonmatriculated if approved by the dean of the Graduate School and by the department in which work is proposed. A student pursuing a graduate degree program elsewhere who wishes to register at LSU as nonmatriculated for one summer term or one semester only will not be required to submit full credentials but may submit a transcript or statement of good standing from the last institution attended and a statement of the highest degree attained.

GRADUATE-LEVEL COURSES

Courses numbered 5000 and above are open to graduate and professional students only. In most departments, courses numbered 4000 to 4999 are open to juniors, seniors, and graduate students.

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 and has maintained a grade-point average of at least 3.00 during the preceding year at LSU 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.

**Graduate Credit for Adult Special Students**

Adult special students in University College who hold a bachelor's degree with an overall grade-point average of at least 2.50 ("A" = 4) may, with approval of the Graduate School and the appropriate department, be allowed to register for up to six hours of credit in courses numbered 5000 and above. These six hours of credit may be taken in one or more semesters.

An adult special student who earns six hours of credit in courses numbered 5000 and above may continue to register for courses at that level only if approved for regular admission to the Graduate School. The six hours of credit earned in courses numbered 5000 and above while registered as an adult special student may be applied to a graduate degree only with approval of the Graduate School and the department offering the degree.

**Graduate School of Library Science**

JANE R. CARTER, Dean
SISTER MARIE L. CAIRNS, Assistant Dean
226 Middleton Library

Library science courses were first offered by LSU in the summer of 1926. These summer courses, given each year thereafter, culminated in the organization of the Graduate School of Library Science, which was opened in September 1931. The school was organized to meet the demands for professional education for librarianship. Preparation for service in academic, public, school, and special libraries is offered.

The school's program is accredited by the American Library Association, and the school is a member of the Association of American Library Schools.

**PREPROFESSIONAL PREPARATION**

A broad general education is the best preparation for librarianship. 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 libraries. The Graduate School of Library Science does not require a foreign language for admission; however, coursework in one or more foreign languages is advisable for those who expect to prepare for service in research or technical libraries.

Students who expect to become school librarians should plan their undergraduate programs with state teacher certification requirements in mind.

**ADMISSION TO THE GRADUATE PROGRAM**

Students working toward the degree offered through the Graduate School of Library Science are enrolled in the Graduate School; therefore, applicants must meet the general Graduate School requirements in addition to Graduate School of Library 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 library work. Personal interviews are desirable and should be arranged if possible.

**DEGREE REQUIREMENTS OF THE SCHOOL**

The Master of Library Science degree will be conferred upon candidates who successfully complete the course of study, with a minimum of 34 semester hours of graduate credit, and who—in conformity with the regulations of the Graduate School—have a 3.00 average in all courses and not less than a "C" in any course offered for the degree.
School of Social Welfare

BERNARD J. WIEST, Dean
W. BRUCE HERRIN, Assistant Dean
178 Old Law Building

The School of Social Welfare is a professional school of social work on the graduate level. It 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, preprofessional education for social work and other service-related vocations.

Beginning with the fall semester, 1974-75, a combined curriculum in arts and sciences and social welfare was initiated at LSU. Under this plan, a few selected students may be admitted to the School of Social Welfare following completion of their junior year in the College of Arts and Sciences. (For details, see the section of this catalog entitled “Combined Curricula,” page 111.

The aim of the school is to offer a complete, integrated, and dynamic program of social work education. The objectives of this program are to increase the supply of competent professional personnel for the social welfare services; to improve the quality of preventive, restorative, and rehabilitative services of social welfare agencies; to improve service to people; and to enhance the economical and efficient administration of social welfare services.

The school is a charter member of the Council on Social Work Education and is accredited by its Commission on Accreditation. Graduates of the school are eligible for membership in the National Association of Social Workers.

ADMISSION REQUIREMENTS AND PROCEDURES

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 Welfare Bulletin. Juniors or seniors enrolled in other divisions of the University may register for social welfare courses numbered below 5000 for which they have the specific prerequisites. Graduate students in other departments may register for any social welfare course, except internship, for which they have the prerequisites.

DEGREE REQUIREMENTS OF THE SCHOOL

The degree of Master of Social Work is conferred upon completion of the two-year curriculum prescribed by the faculty of the school. Requirements for this degree include completion of 60 semester hours in professional courses and a satisfactory thesis or research project. Degree candidates must have a baccalaureate degree from LSU or from another institution whose undergraduate degree is recognized by LSU.

School of Veterinary Medicine

EVERETT D. BESCH, Dean
JOHN B. TASKER, Associate Dean
KIRKLYN M. KERR, Assistant Dean
1102 Veterinary Medicine Building

The LSU School of Veterinary Medicine admitted its first students to the professional program 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 to its present maximum of 80. 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 West Virginia.

The school received full accreditation from the Council on Education of the American Veterinary Medical Association in April 1977.
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 science 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 of 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 pre-veterinary training and four years of professional training. The pre-veterinary 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 page 91 in the section of this catalog entitled “College of Agriculture” for the pre-veterinary medicine curriculum at LSU.)

The minimum requirement of 69 semester hours, including nine hours of elective courses, may be completed in two years. Admission to or successful completion of the pre-veterinary curriculum does not insure admission to the school for professional training. Currently, there are more qualified applicants each year than there are spaces available to 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 or correspondence courses is acceptable, but is not used in the computation of grade-point averages. Evaluation of each applicant’s record in the preprofessional curriculum 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 faculty Committee on Admissions 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 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 faculty Committee on Admissions and are carefully selected to make sure they are properly motivated, equal to the rigorous course of professional study, and competent to meet the performance 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 70 percent of the final calculation and a subjective score which comprises the remainder.
The *objective evaluation* is purely mathematical and is based on scholastic achievement and test score results. Official transcripts of previous work are examined to determine scholastic achievement. Three grade-point averages are calculated and evaluated:

a. The preprofessional grade-point average determined from grades received in the 69 credits of required work completed in the prescribed preprofessional curriculum.

b. The science grade-point average determined from grades received in prescribed science courses—44 of the 69 required semester hours, i.e., mathematics, biology, chemistry, physics, genetics, etc.

c. The last 45 semester credit hours' grade-point average derived from grades earned in courses of substantive quality taken during the last three semesters or equivalent.

If it is to the advantage of the student, the grade earned in a nonrequired, more advanced science course in the same discipline may be averaged with a required science course. This is applicable when the individual concerned is registered either as an undergraduate or a graduate student. New knowledge, especially in the sciences, is accruing at a phenomenal rate and records of students who have completed the 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 also used as part of the objective score. This test 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 character qualities 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 evaluates the supporting documents (autobiography, letters of recommendation, transcript, work experience, and familiarity with animals). The second committee evaluates the individual through a personal interview. For Louisiana applicants, three members from each committee independently arrive at a subjective score. 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 judgment of six faculty members is included in arriving at a final decision.

**Minimum Prerequisites for Admission (69 Sem. Hrs.)**

**Biological Science, 11 sem. hrs.**: botany and zoology must include laboratory work. *LSU courses*—Biology 1001, 1002, 1003, 1004; Zoology 2153 or Agriculture 2072.


**Chemistry, 16 sem. hrs. (at least 8 sem. hrs. of organic chemistry)**: inorganic and organic chemistry with laboratory work. Organic chemistry courses must include study of the aliphatic and aromatic organic compounds. *LSU courses*—Chemistry 1201, 1202, 1212, 2261, 2262, 2364.

**Mathematics, 6 sem. hrs.**: algebra and trigonometry. *LSU courses*—Math 1011 or 1021; 1012 or 1022.


**Economics and Speech, 6 sem. hrs.**: introduction to agricultural economics or economic principles; introductory course in public speaking. *LSU courses*—Economics 2030 or Agricultural Economics 2075; Speech 2060.

**General Agricultural and Animal Nutrition, 4 sem. hrs.**: introduction to agriculture and basic principles of animal nutrition. *LSU courses*—Agriculture 1001 and Animal Science 2098.

**Electives, 9 sem. hrs.**: while it is recognized that choice of electives will depend on the needs of the individual student, it is recommended that courses be selected from the following areas: animal, dairy, and poultry sciences, zoological sciences, social sciences, and humanities.

**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

JACK R. VAN LOPIK, Dean
124 Wetland Resources Building

The Coastal Ecology Laboratory, the Coastal Studies Institute, the Department of Marine Sciences, the Office of Sea Grant Development, and the Laboratory for Wetland Soils and Sediments comprise the Center for Wetland Resources.

COASTAL ECOLOGY LABORATORY

The Coastal Ecology Laboratory, a research organization established in 1978, focuses primarily on understanding coastal environments as ecological systems. Emphasis is placed on the study of large-scale ecological systems, systems that incorporate the interaction of biologic, geologic, hydrologic, and chemical processes in order to understand the overall functioning of the total system. A second emphasis is placed on commercial fisheries with a focus toward understanding population dynamics, natural history, and ecophysiology of important commercial species in the context of the ecology of whole systems within which they function. People are an integral part of the large ecosystems under consideration and must be considered in the system analysis.

COASTAL STUDIES INSTITUTE

The Coastal Studies Institute, a research organization established in 1954 with major emphasis on physical systems, has received primary and continuing funding support from the Geography Programs, Office of Naval Research. Its research is interdisciplinary, extending into geography, geology, geophysics, hydrodynamics, dynamical meteorology, remote sensing, and chemistry. Field investigations have been undertaken on all continents, except Antarctica, but including the coast of the Arctic Ocean. The program is field oriented, and concentrates on form-process relationships in coastal environments. The focus of the program is on deltas and riverine environments, including estuaries, marshes, and swamps; coral reefs and coastal vegetation in the tropics; coastal dynamics, including geophysics of water and sediment movement and dynamical meteorology; and coastal information management programs. Some undergraduate and graduate students are employed in research activities.

DEPARTMENT OF MARINE SCIENCES

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 shallow-water, 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 of the departmental faculty 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 marine sciences programs as a major requires admission to the Graduate School and a strong bachelor’s or graduate degree in an approved field of science or engineering. For a listing of the courses offered by the Department of Marine Sciences, see page 322.

OFFICE OF SEA GRANT DEVELOPMENT

The National Sea Grant Program, maintained by the National Oceanic and Atmospheric Administration of the U.S. Department of Commerce, is designed to use the capabilities of institutions, institutes,
laboratories, and public and private agencies in solving practical problems of marine-resource development. Three general categories of activities are called for under the act: training and education, with emphasis on the production of manpower necessary for marine resource development; applied research, aimed at practices, techniques, and design of equipment applicable to the development of marine resources; and advisory or information/technology transfer programs involving transmittal of scientific discoveries to engineers and industrialists, demonstrations of useful methods and techniques, and general extension service. LSU's Office of Sea Grant Development has primary responsibility for the effective conduct of research, training, and information/technology transfer programs approved by the National Oceanic and Atmospheric Administration for sea grant funding in Louisiana and, more broadly, the development of strong University and statewide marine-science capabilities. Emphasis is given to the encouragement, development, and conduct 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.

LABORATORY FOR WETLAND SOILS AND SEDIMENTS

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.
The School of Music’s educational purpose is directed toward assisting students in the development of their innate musical gifts and in helping them to make the musical arts a constructive cultural asset in their own lives and in the lives of others.

To attain these goals, the faculty of the School of Music has prepared 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 “College of Education,” page 162 for curricula). Persons wishing a broader variety of subjects in addition to a basic foundation in music may follow one of the curricula leading to the Bachelor of Arts degree offered in conjunction with the College of Arts and Sciences (see “Concentration in Music in the College of Arts and Sciences,” page 218, and “Curricular Requirements” in the “College of Arts and Sciences” section, page 106).

Three years of a music therapy curriculum are offered at LSU. Avocational programs are offered through courses in music appreciation, the performing organizations, and through other elective courses.
Courses and curricula meet the standards of the national accrediting agencies. The School of Music is a member of the National Association of Schools of Music. Requirements for entrance and graduation, as set forth in this catalog, are in accordance with the published regulations of the association.

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.

ADMISSION REQUIREMENTS

From Junior Division

Students may be admitted to the School of Music from Junior Division on the bases given in the section entitled "Admission to a Senior College from JD," page 192, 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. All of these curricula include Music 1701. It is recommended that freshmen register for piano during their first semester unless they can pass a proficiency test in piano.

By Transfer

Transfer students from other divisions of the University or from accredited 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.

Transfer students at all levels must take a classification examination in theory. This includes ear-training, keyboard work, harmonization, and analysis. The results of the examination will not be used to exclude anyone from the regular courses but to aid in planning a practical schedule of courses consistent with the student’s previous training and capacity.

The examinations will be given on all levels (freshman to graduate) from 1:30-5:00 p.m. on the first day of classes in each semester or summer term. Unclassified graduate students may be excused from these classification examinations. Since all registration for transfer students is provisional, programs will be changed if the results of these examinations indicate that changes are necessary.

Transfer credit in performance courses must be validated by the School of Music before students will be permitted to register for additional performance courses at LSU.

AUDITIONS

For Admission

Enrollment in music is limited to the University’s ability to provide facilities and faculty. Therefore, an audition in the major performance medium (piano, voice, etc.) is required of 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, Junior Division, and University College before permission is granted to enter such curricula.

For Performance Courses

On each registration day, performance teachers hear auditions by new students in order to determine the students’ levels 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 over one year and who return to continue in a performance curriculum must reaudition.

For Ensemble Courses

On each registration day, auditions will be held at stated hours for the following organizations: opera chorus (Music 1785); men’s chorus and women’s chorus (Music 1780, 4780); orchestra (Music 1781, 4781); a cappella choir (Music 1783, 4783); University chorus (Music 1784, 4784); wind ensemble (Music 1786, 4786); chamber music; and opera theatre (Music 4788). Students who expect to register for the first
time in any of these organizations must appear at one of the hours designated during registration for an audition. This must be done before completing registration so the course may appear on the student’s schedule. Auditions for band (Music 1782, 4782) are held during the regular semester preceding the semester in which the student wishes to participate in the band. For details, contact the director of bands.

With the exception of opera theatre, these organizations are open to all students with high school musical experience who pass the auditions.

SPECIAL REQUIREMENTS

Participation in Ensembles

All students enrolled for private lessons in performance (regardless of the college or school in which enrolled) may, at the discretion of the dean of the School of Music in consultation with the conductor of the organization concerned and the performance instructor, be required to participate in one of the major performing organizations.

Piano Proficiency

Every candidate for a Bachelor of Music degree must be able to demonstrate proficiency in playing the piano appropriate to his or her curriculum. The minimum requirement is Music 1106 or equivalent for instrumental curricula including the curricula with multiple minors. Music 1112 is the minimum for voice majors. For students in vocal music supervision (music education), the minimum is Music 2122 or equivalent. Piano proficiency is very important for composers. Students in the composition curriculum whose major performance medium is not piano must satisfy the requirements of the composition faculty through auditions. It is recommended that students planning to major in music or music education learn to play the piano prior to entering college. Students are expected to be able to play at least at the level of Music 1106 before being admitted to their senior college unless they enroll in Music 1105 or 1106 during the first semester in the senior college. Transfer students must complete the piano proficiency examination within one year of being admitted to the school or be enrolled in Music 1105 or 1106.

Weekly Student Recitals

All students working toward the Bachelor of Music degree are required to perform in recitals. These take place weekly during each regular semester. Attendance at these recitals is open to the student body at large and is a requirement for students majoring in music.

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 extension work in applied music done through other universities or colleges must be verified as corresponding to the 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 of the requirements in the music curriculum selected and register as a full-time student in the school for at least the term that the degree is to be granted. In addition, the 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.
CURRICULA

For admission to the sophomore, junior, or senior levels in performance courses in the Bachelor of Music and Bachelor of Music Education curricula, students must be approved by a committee of instructors in their major performance fields. They should have a 3.00 average or better in their major performance work taken at LSU.

Students whose major is organ may be required to register for University chorus, men's or women's chorus, or a cappella choir during their period of residence.

Passing Music 1106 does not automatically qualify a student for registration in Music 1111. The piano committee must approve registration in Music 1111 prior to registration.

Any credit examinations in Music 1401, 1402, 1403, 1404, 1501, 1502, 1503, and 1601 should be completed prior to the last day for adding courses for credit of the first semester of the senior year.

Electives in the freshman and sophomore years may include six semester hours of basic ROTC.

Students majoring in music are not charged for private lessons or for use of school-owned instruments, lockers, equipment, or practice rooms.

CURRICULUM IN COMPOSITION MAJOR

A senior recital is not required. However, students may be required to appear occasionally in the weekly student recitals to demonstrate proficiency in performance. Piano proficiency at levels set by the composition faculty is required.

Courses listed to the left of hyphens should normally be taken first.

<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>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>Music 1700</td>
<td>2</td>
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<td>English 1001, 1002</td>
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<td>Nonmusic electives</td>
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<tr>
<td>Electives</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Music 1700</td>
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<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 3711-3712, 3741-3742, 3771-3772, 4719, 4720, 4723-4724, 4730, 4731</td>
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<td>Music 4721-4722, 4743, 4744, 4751, 4752</td>
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<td>Performance (junior level)</td>
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<td>Performance (senior level)</td>
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<td>36</td>
<td>Electives selected from courses in computer science, scientific bases of music, aesthetics (philosophy of art), or foreign languages</td>
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<td>Nonmusic electives</td>
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<td>Electives</td>
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</table>

CURRICULUM IN VOICE MAJOR

Taking a second foreign language and orchestration is recommended. Courses listed to the left of hyphens should normally be taken first.

<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>Music 1105, 1106, 1107; or 1111, 1112; or 1211, 1212</td>
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<td>Music 1780, 1783, 1784, or 1785</td>
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<td>Music 1700</td>
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<td>English electives above 2000</td>
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TOTAL SEM. HRS.: 137

TOTAL SEM. HRS.: 146
### JUNIOR YEAR

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### SENIOR YEAR

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<td>Music 1785, 4780, 4783, or 4784</td>
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<td>Electives</td>
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### CURRICULUM IN SACRED MUSIC

**TOTAL SEM. HRS.: 136**

#### FRESHMAN YEAR

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<td>Music 1783 or 1784</td>
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#### JUNIOR YEAR

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#### SENIOR YEAR

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<td>30-minute recital*</td>
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*Can be satisfied by a performance in Music 1700.

### Instrumental Curricula

The two basic types of instrumental curricula are: (1) regular, which is the traditional type available for all acceptable instruments; and (2) multiple minor with majors and multiple minors in woodwinds, brasses, or strings. The regular curriculum with a major in piano is designed to train for teaching in college, in an independent studio, or in other professional situations. The multiple-minor curriculum are designed for persons training for college, university, and independent studio teaching and should be followed by a Master of Music degree in order to provide minimum training standards for such teaching. The doctorate is becoming a requirement for most college/university positions.

Four considerations will determine the instruments which may be selected for the performance major: (1) general acceptability of the instrument by musicians as a serious solo instrument; (2) existence and availability of an extensive and worthwhile literature for the instrument; (3) availability of an instructor; and (4) professional and artistic opportunities open to players of the instrument.

### CURRICULUM IN INSTRUMENTAL MAJOR (EXCLUDING KEYBOARD INSTRUMENTS)

**TOTAL SEM. HRS.: 138**

*Students in this curriculum are encouraged to participate in chamber music ensembles.*

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 1701, 1702</td>
<td>8</td>
</tr>
<tr>
<td>Music 1781 or 1782 or both</td>
<td>2</td>
</tr>
<tr>
<td>Performance (major)</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE, ROTC, or electives</td>
<td>2</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 1753, 1754, 2011, 2012, 2701, 2702, 2703, 2704</td>
<td>18</td>
</tr>
<tr>
<td>Music 1783 or 1784</td>
<td>2</td>
</tr>
<tr>
<td>English electives above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Nonmusic electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

#### SENIOR YEAR

<table>
<thead>
<tr>
<th>Subject</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 4011, 4012, 4721-4722 or 4723-4724; 4751; 4752; 4755; 4756</td>
<td>22</td>
</tr>
<tr>
<td>Music 4783 or 4784</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>10</td>
</tr>
<tr>
<td>30-minute recital*</td>
<td>36</td>
</tr>
</tbody>
</table>

* Can be satisfied by a performance in Music 1700.
### CURRICULUM IN PIANO PERFORMANCE/STUDIO TEACHING PIANO

TOTAL SEM. HRS.: 136

Piano performance majors will be required to perform solos in at least four student recital programs or their equivalent throughout the period of undergraduate study in addition to the senior recital. A junior recital may be elected in lieu of two such appearances with the approval of the major professor. Piano majors will be required to demonstrate proficiency in sight reading by the end of the fourth semester of study.

Piano majors in studio teaching shall be 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. A junior recital may be presented in lieu of these appearances with the approval of the major instructor. The senior recital will be a joint recital or its equivalent. Piano majors in studio teaching will be required to demonstrate proficiency in sight reading at the end of the fourth semester of study.

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Music 1111, 1112, 1701, 1702</td>
<td>14</td>
</tr>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>HP&amp;RE, ROTC, or electives</td>
<td>2</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 3111, 3112, 3711-3712, 3771, 4719, 4730</td>
<td>17</td>
</tr>
<tr>
<td>Music electives (Mus. 4757, 4758 and 4763-4764 strongly urged; Mus. 4101-4102 and/or chamber music courses recommended)</td>
<td>9</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

#### SENIOR YEAR (PIANO PERFORMANCE)

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 411, 4112, 4723-4724, 4751, 4752, 4798</td>
<td>22</td>
</tr>
<tr>
<td>Music electives (Mus. 4757, 4758 and 4763-4764 strongly urged; Mus. 4101, 4102 and/or chamber music courses recommended)</td>
<td>7</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

#### SENIOR YEAR (STUDIO TEACHING MAJOR)

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 411, 4723-4724, 4751, 4752, 4769, 4770, 4797</td>
<td>20</td>
</tr>
<tr>
<td>Music electives (Mus. 4757, 4758 and 4763-4764 strongly urged; Mus. 4101, 4102 and/or chamber music courses recommended)</td>
<td>9</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

#### SOFOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 1753, 1754, 2111, 2112, 2701, 2702, 2703, 2704</td>
<td>18</td>
</tr>
<tr>
<td>English electives above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Nonmusic electives or ROTC</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

### CURRICULUM IN ORGAN

TOTAL SEM. HRS.: 136

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Music 1211, 1212, 1701, 1702</td>
<td>14</td>
</tr>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 1780, 1783, or 1784</td>
<td>2</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE, ROTC, or electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

#### SOFOMORE YEAR

<table>
<thead>
<tr>
<th>Course Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>2</td>
</tr>
<tr>
<td>Music 1753, 1754, 2211, 2212, 2701, 2702, 2703, 2704</td>
<td>18</td>
</tr>
<tr>
<td>English electives above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>
It is possible to take both semesters of English electives above 2000 in the sophomore year and delay the nonmusic electives until the junior year. Please note the minimum piano requirements for all music curricula.

**CURRICULUM IN WOODWIND MAJOR—MULTIPLE WOODWIND MINOR**

**TOTAL SEM. HRS.: 142**

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Music 1700</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Music 1701, 1702</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Music 1781 or 1782 or both</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Performance (major)—Music 1411, 1412</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE, ROTC, or electives</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 3711-3712, 3771-3772, 4730, 4731</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Music 4781 or 4782 or both</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Performance (major)—Music 3411, 3412</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Performance (third minor)—Music 1411</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>English electives above 2000</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Music 4703, 4751, 4752, 4797</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Music 4781 or 4782 or both</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Performance (major)—Music 4411, 4412</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Performance (minor)—Music 2411</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

**CURRICULUM IN BRASS MAJOR—MULTIPLE BRASS MINOR**

**TOTAL SEM. HRS.: 140**

Students in this curriculum will study 4 years on a major instrument. They will select a chief minor brass instrument to study for 2 years (Music 1515, 1516, and 2513, 2514) and two different rotating minors (Music 1513, 1514). The minor instrument should be played in public during the final year it is studied. Students who are prepared to audition on the chief minor instrument should do so at the end of the freshman year so they may begin 1515 in the sophomore year.

It is possible to take both semesters of English electives above 2000 in the sophomore year, take Music 4730, 4731 in the junior year, and delay the nonmusic electives indicated in the sophomore year until the senior year.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Music 1700</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Music 1701, 1702</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Music 1781 or 1782 or both</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Performance (major)—Music 1511, 1512</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>HP&amp;RE, ROTC, or electives</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 3711-3712, 3771-3772</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Music 4703, 4751, 4752, 4797</td>
<td>9</td>
<td>9</td>
</tr>
</tbody>
</table>
Students in this curriculum will study one major stringed instrument for 4 years. They will select a minor stringed instrument (Music 1312, 1314, 1315, 1316) to study for 2 years, and will rotate study of the other two stringed instruments with one year of study each.

It is possible to take both semesters of English electives above 2000 in the sophomore year and delay the nonmusic electives until the junior year.

**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 EDUCATION IN THE COLLEGE OF EDUCATION**

The College of Education offers the Bachelor of Music Education degree with a major in music education and concentration in combination band, orchestra, and vocal music; instrumental music; or vocal music. Students interested in music education should refer to these curricula in the "College of Education" section.

**CONCENTRATION IN MUSIC IN THE COLLEGE OF ARTS AND SCIENCES**

A student in the College of Arts and Sciences may work toward the Bachelor of Arts degree with concentration in music. The college limits the number of hours which count toward the B.A. degree in any concentration to 37. A student may take more than the 37-hour limit in any one subject, but no more than 37...
hours will be counted in the total degree requirement of 128 hours. In order to meet the music course requirements for the B.A. degree with a concentration in music, as set forth by the National Association of Schools of Music, of which the LSU School of Music is a member, the courses listed below must be scheduled.

**CONCENTRATION IN MUSIC HISTORY AND LITERATURE**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1111, 1112 (or 1121, 1122); 1701, 1702; 1753-1754; 2111, 2112 (or 2121, 2122); 2701, 2702, 2703, 2704, 4730, 4751-4752</td>
<td>Music 4721 or 4723</td>
</tr>
<tr>
<td>Select from the following: Music 3750, 3751, 3752, 4733, 4754, 4755, 4756, 4757, 4758</td>
<td>..............</td>
</tr>
</tbody>
</table>

**CONCENTRATION IN THEORY**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1111, 1112 (or 1121, 1122); 1701, 1702; 1753, 1754; 2111, 2112 (or 2121, 2122); 2701, 2702, 2703, 2704; 3711; 4719; 4723; 4730; 4751-4752</td>
<td>..............</td>
</tr>
</tbody>
</table>

**CONCENTRATION IN PERFORMANCE**

This degree is not professional and is not preparation for graduate study with an applied major.

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1701, 1702; 1753-1754; 2701, 2702, 2703, 2704; 3711-3712; 4751-4752</td>
<td>..............</td>
</tr>
<tr>
<td>Applied music—4 years of study or equivalent; student must complete Bachelor of Music level of the first half of the second semester of the junior year (3115 or 3125 or equivalent in other performance majors)</td>
<td>..............</td>
</tr>
</tbody>
</table>

44
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 both men and women at LSU. Participation in the programs is optional. The purpose of the programs of both services is to develop selected college-educated students for positions of responsibility and leadership in the U.S. armed forces and to offer the student an educational experience not otherwise available in this University.

“Military science” and “aerospace studies” are the titles of the Army and Air Force ROTC programs, respectively. Both military science and aerospace studies are recognized electives, and the student may choose to pursue an Army or Air Force curriculum. 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 professor of aerospace studies.

Both Army and Air Force ROTC conduct two- and four-year programs. Successful completion of either will result in the student being tendered 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 grants of one-, two-, or three-years’ duration. Students enrolled in Air Force ROTC may compete for grants of four- (if in five-year curriculum), three-, or two-years’ duration.

**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. 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 were unable to 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.

Students enrolled in the last two years of either ROTC program who are under contract will receive a $100 monthly tax-free subsistence allowance during each academic year. During the summer 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.

Courses for the Department of Military Science and Department of Aerospace Studies are listed in the section of this catalog entitled "Departments and Courses of Instruction."

THE NAVAL RESERVE OFFICERS TRAINING CORPS

Through the cross-registration program between LSU and Southern University, LSU students are eligible to enroll in the Naval Reserve Officers Training Corps leading to a career in the United States Navy or Marine Corps. The NROTC at Southern University in Baton Rouge has extended its program to allow all college men and women in the Baton Rouge area the opportunity to participate.

NROTC scholarships are available to NROTC College Program students demonstrating satisfactory academic performance and aptitude for commissioned service.

Further information may be obtained from the Professor of Naval Science and Commanding Officer, NROTC Unit, Southern University, Baton Rouge, Louisiana 70813 (504-771-4370).

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 and at least 15 years of age upon enrollment in the Army ROTC program; and (6) take and sign the Oath of Allegiance.
The following is a listing of all courses of instruction offered by departments at LSU for the 1980-81 academic year. This listing was up-to-date and as nearly correct as possible at the time of publication.

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. 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.

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 page 58 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," page 192) and to part-time beginning students in University College.

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.

5000-5999: For students in post-baccalaureate professional programs. A student in the Graduate School or the Graduate Division of Education may take these courses for credit with approval of the student’s major department.

6000-6999: For participants in special institutes. These courses are designed primarily for teachers at the high-school or junior-college level; they are part of a master’s degree program for such teachers. Open only to graduate students by consent of department.

7000-7999: For students in the Graduate School and the Graduate Division of Education; for graduate credit only.

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**

<table>
<thead>
<tr>
<th>DESIGNATION</th>
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<tr>
<td>Academic Orientation</td>
<td>AcOr</td>
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<td>Accounting</td>
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<td>Administrative &amp; Foundational Services</td>
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<td>Aerospace Studies</td>
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<td>Agricultural Economics</td>
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<td>Agronomy</td>
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<td>Allied Health</td>
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<td>Animal Science</td>
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<td>Anthropology</td>
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<td>Architecture</td>
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<td>Biochemistry</td>
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<td>Books and Libraries</td>
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<td>Botany</td>
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<td>Business Administration</td>
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<td>Chemical Engineering</td>
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<td>Curriculum and Instruction</td>
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<td>Environmental Design</td>
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<td>Environmental Studies</td>
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<td>Experimental Statistics</td>
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<td>Health, Physical, &amp; Recreation Education</td>
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<td>Human Development</td>
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<td>Industrial Education</td>
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<td>Marine Sciences</td>
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<td>Marketing</td>
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<td>Microbiology</td>
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<td>Military Science</td>
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Designation | Abbreviation
---|---
Music | Mus
Nuclear Science | NS
Office Administration | OAdm
Petroleum Engineering | PetE
Philosophy | Phil
Physical Science | PhSc
Physics | Phys
Plant Pathology | PIPa
Political Science | Poli
Portuguese | Port
Poultry Science | PISc
Psychology | Psy
Quantitative Methods | QM
Romance Languages | RLan
Russian | Russ
Social Welfare | SW
Sociology | Socl
Spanish | Span

Designation | Abbreviation
---|---
Speech | Spch
University | Univ
Veterinary Anatomy | VAN
Veterinary Medicine | VMed
Veterinary Microbiology & Parasitology | VMKP
Veterinary Pathology | VP
Veterinary Physiology, Pharmacology, and Toxicology | VPT
Veterinary Science | VetS
Vocational Agricultural Education | VAEd
Vocational Education | VoEd
Vocational Home Economics Education | VHEE
Vocational Trade & Industrial Education | VTIE
Wildlife | Wild
Zoology | Zool

ACADEMIC ORIENTATION*

Academic Orientation (AcOr)

**0001 Freshman Orientation (0)** For new students with less than 12 sem. hrs. of college credit. Multi-media/lecture presentation of the services of Junior Division; its academic rules and regulations; opportunities offered by Junior Division for career development, personal counseling, study skills enhancement, and tutorial assistance.

**0006 Study Skills (2)** 1 hr. lecture; 1 hr. lab. For students in Special Services Programs only. Pass-no credit grading. Basic learning principles; includes time management, goal setting, notetaking, listening skills, reading, theme and report writing, memory, and analyzing study problems.

DEPARTMENT OF ACCOUNTING

CHAIRMAN: Brenner, Professor
PROFESSORS: McCameron, Swyers
ASSOCIATE PROFESSORS: Hartman, Kyle, Spiceland, Winters
ASSISTANT PROFESSORS: Fields, Holland, Orbach, Trappell
INSTRUCTORS: Agudelo, Crittenden

Accounting majors may transfer accounting course credits only from schools accredited by the American Association of Colleges of Business. No more than 15 credit hours in accounting may be transferred.

The prerequisite for any accounting course may be waived in exceptional cases with consent of the instructor and approval of the department chairman.

Accounting (Acct.)

**2001 Introductory Financial Accounting (3)** Credit will not be given for both this course and Acct. 3001. Principles and methods of accounting primarily concerned with financial data gathering and presentation in the form of general-purpose external financial statements.

**2021 Intermediate Accounting—Part 1 (3)** Prereq: grade of "C" or above in Acct. 2001 or equivalent. Accounting concepts and 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. 2001 or equivalent. Credit will not be given for both this course and Acct. 3101. Principles and methods of accounting primarily concerned with data gathering and presentation for purposes of internal management evaluation and decision making.

**3001 Theory, Method, and Use of Accounting (3)** Credit will not be given for both this course and Acct. 2001. For graduate students without previous work in accounting. Accounting as a language for communicating financial facts about an enterprise and as a useful tool for planning, analyzing, and controlling enterprise operations; includes methods and procedures.

*Courses administered by Junior Division.*

3022 Advanced Accounting (3) Prereq: Acct. 3021. Continuation of Acct. 3021; partnerships, special sales procedures, actuarial science, corporate combination, and consolidated financial statements.

3101 Introduction to Cost Accounting for Management Use (3) Prereq: Acct. 2001 or 3001. Credit will not be given for both this course and Acct. 2101. Basic cost accounting systems; nature and use of cost data, with emphasis on standard costs, budgeting, managerial cost analysis, and applications from the viewpoint of the information user.


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 exclusions and exclusions, and statutory deductions in arriving at tax liability.

3222 Auditing (3) Prereq: Acct. 3021 and credit or registration in Acct. 3121. Nature of public accounting; auditing theory, procedures, and problems; internal control; internal auditing; development of audit programs; evidential matter; and reporting.

4021 Cases in Accounting Policy (3) Prereq: accounting major with senior standing. Term papers required. A case approach to functions of accounting; integrates previous courses in 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 on results of operations of the business enterprise; legal materials pertaining to the relationship of accounting to the law.

4121 Advanced Cost Analysis (3) Prereq: Acct. 3121. Measurement, interpretation, planning, and control of manufacturing and distribution costs; budgets and budgetary control; comparison of costs of business alternatives; and other selected topics.


4222 Consolidated Financial Statements and Specialized Accounting Topics (3) Prereq: Acct. 3022. Consolidated financial statements and specialized topics, with extensive use of CPA-type theory questions and problems.


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.

4321 Systems Analysis and Design (3) Prereq: CSc 1240 or equivalent and credit or registration in Acct. 3121. Accounting functions in design, development, and installation of accounting systems, with emphasis on computer-based applications.

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.

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.

7021 Advanced Theory of Accounts (3) Prereq: Acct. 3021 and consent of instructor; or Acct. 3022.

7023 Development of Accounting Thought and Practice (3) Prereq: consent of instructor. The historical roots of modern accounting; organizations, and individuals who shaped its development, past and present research, and trend 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. In-depth analysis of current topics in financial accounting; theoretical analysis of recent accounting pronouncements and current literature in accounting.

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. 3101 or 3121. For accounting majors only.

7170 Advanced Accounting Analysis for Decision Making (3) Prereq: Acct. 3101. 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, including treatment of 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 the tax treatment, tax problems, and tax planning techniques involving transactions between corporations and their shareholders; transfers 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.


7270 Statement and Report Presentation and Analysis (3) For accounting and finance majors only.

7301 Financial Information Systems (3) Prereq: basic knowledge of electronic computers and programming (may be obtained concurrently with course enrollment if necessary). Same as Acct. 7371. Financial information systems, with emphasis on those utilizing electronic data processing equipment; nature and design of a system and its use in financial planning and control.

7370 Controllership Functions in Financial Administration (3)

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, graduate students majoring in accounting 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.

7421 International Accounting (3) Prereq: Acct. 3022 or consent of instructor.

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)

8000 Thesis Research (1-9 per sem.)

8900 Predissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-9 per sem.)

DEPARTMENT OF ADMINISTRATIVE AND FOUNDAIONAL SERVICES

CHAIRMAN: VonBrock, Professor
PROFESSORS: Adams, Blackmon, Britt, Firnberg, Gremillion, Musemeche, Roberts, Smith
ASSOCIATE PROFESSORS: Maxey, McJulien, Rankin
ASSISTANT PROFESSORS: Faily, St. Julien
INSTRUCTOR: Deya

Administrative and Foundational Services (EDAF)

2000 Introduction to the Study of Education (3)

3200 Evaluation of Instruction (2) Prereq: credit for or registration in a methods course appropriate to the student's teaching level or major or minor.

3500 Utilization of Instructional Materials (3) Prereq: credit for or registration in a methods course appropriate for the desired major teaching field or consent of instructor. Use of audio-visual materials in the classroom.

3525 Selection of Educational Media (2) Prereq: EDCI 2025 or equivalent. 1 hr. lecture; 2 hrs. lab. Open only to students enrolled in an elementary education program leading to teacher certification.

3550 Selection and Use of Materials for School Libraries (3) Selection of instructional media with emphasis on curricular use.


3553 School Libraries (3) Role, problems, and needs of library service in elementary and secondary schools; administrative plans, services, procedures, and relationships.

3554 Libraries and Librarianship (3) Libraries and librarianship: origin, services, importance in contemporary social order, and present-day professional library problems.

3555 Libraries as Information Centers (3) Basic reference tools and methods; the library as a teaching and reference tool.

4000 History of Education (3)
4001 History of American Education (3) Prereq: consent of instructor.

4002 Survey of Philosophy of Education (3) For students with a minimum exposure to philosophy or philosophy of education; not recommended for Ph.D. students.

4200 Measurement and Evaluation of Student Achievement (3) Introduction to measurement.

4400 School Administration (3)

5880 Special Topics in Education (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 9 sem. hrs. New methods, trends, and techniques in education.

7000 Philosophy of Education (3) Terms, concepts, theories, and arguments in educational discourse; emphasis on research and writing; use of tools of philosophical analysis.

7200 Seminar in Educational Measurement (3) Prereq: EDAF 4200 and 7280. Basic theories and problems in educational measurement applied to students' areas of special interest.

7240 Critical Analysis of Current Research in Educational Media (3) Prereq: EDAF 7501 or equivalent. Critical analysis and synthesis of current literature in the field; evaluation of current research and investigations into needed research; systems approach to analyzing and solving instruction problems, with attention to media.

7241 Educational Research (3)

7242 Experimental Designs in Education (3) Prereq: EDAF 7241 and 7280, or consent of instructor.

7280 Statistical Methods in Education (3)

7281 Advanced Educational Statistics (3) Prereq: EDAF 7280 or equivalent.

7400 Problems of Educational Finance (3)

7401 Administration of School Personnel (3)

7402 Theories and Practices in School Administration (3) Prereq: EDAF 4400, 7403, and 7450, or equivalents; or consent of instructor.

7403 The School Principalship in Elementary and Secondary Schools (3)

7404-7405 Problems in the Organization and Administration of Education (2-4, 2-4) For advanced graduate students who are qualified to undertake individual problems or for internship in school administration.

7406 Supervision of Child Welfare and Attendance (3)

7420 Administering Educational Media Programs (3) Prereq: EDAF 7501 or equivalent; and consent of instructor. Primarily for personnel administering media centers. Budget preparation, purchase of equipment and materials, in-service training, program evaluation.

7450 Supervision of Instruction in Elementary and Secondary Schools (3)

7451 The Supervision of Student Teaching (3)

7501 Introduction to Educational Media (3) Prereq: consent of instructor.

7502 Utilization of Instructional Television (3) Prereq: EDAF 7501. Application and utilization of television in the instruction process.

7503 Instructional Design and Development (3) Prereq: EDAF 7501. Development of skills in applying principles of instructional systems to teaching and learning problems.

7504 Photography in Education (3) Prereq: EDAF 7501. Experience and foundation in the techniques of production utilization; evaluation of educational motion pictures; preparation of still photography materials.

7811 Seminar in Current Trends in Educational Literature (3) Open only to students who have completed qualifying examination for the doctoral degree.

7812 Seminar and Practicum in Educational Media (6) Prereq: EDAF 7420, 7501, and 7502. Teaching, production, utilization, and administration of educational media; readings in and discussion and analysis of advanced topics in instructional technology.

7840 Educational Facility Planning (3) For school administrators. Problems in school construction.

7870 School Law (3) Prereq: EDAF 4400 and 7450. Legal responsibilities of teachers and administrators; court decisions and their implications for school personnel.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

DEPARTMENT OF AEROSPACE STUDIES

COMMANDANT OF CADETS: Jackson, Professor
ASSISTANT PROFESSORS: Clary, La Marca, Youther

Aerospace Studies (AsSt)

1001, 1002 Aerospace Studies—U.S. Military Forces in the Contemporary World (1,1) 1 hr. lecture; 1 hr. leadership lab. Mission, organization, and weaponry of Air Force units; strategic offensive and defensive forces, general-purpose forces, and aerospace support forces; Navy strategic offensive forces and general-purpose forces of the Navy, Army, and Marines.

1109 Aerospace Studies—Private Pilot Ground Training Program (2) Prerequisite for completion of the
Air Force ROTC flying program for cadets, but open to any student. Course is FAA-approved; includes preparation for FAA written examination for certification as private pilot; principles of flight, preflight, and systems operation; meteorology; FAA regulations; flight computer; navigation; radio navigation; communications; Airmen’s Information Manual; final examination is FAA Private Pilot’s examination, given by FAA officials.

2003, 2004 Development of Air Power (2,2) 1 hr. lecture; 1 hr. leadership lab. Development of air power from balloons and dirigibles through peaceful employment of U.S. air power in relief missions and civic action programs in the late 1960’s; air war in Vietnam.

DEPARTMENT OF AGRICULTURAL ECONOMICS AND AGRIBUSINESS

HEAD: Wiegmann, Professor

PROFESSORS: Campbell, Corty, Efferson, Fielder, Harper, Hudson, Huffman, Law, Roy, Schupp, Traylor, Woodin

ASSOCIATE PROFESSORS: Fricke, Guedry, Paxton

ASSISTANT PROFESSORS: Gauthier, Music, Vandeever

Agricultural Economics (AgEc)

1098 Studies in the Operation of Agricultural Business (3) Organization, management, and operation of agricultural businesses. Traylor

2075 Introductory Agricultural Economics (3) Role of agriculture in the general economy; economic principles applied to agricultural production, marketing, consumption, and policy problems. Schupp

2077 Principles of Agricultural Marketing (3) Agribusiness marketing channels, institutions, costs, problems, agencies, policies. Hudon

4001 Farm Records and Accounts (3) 2 hrs. lecture; 2 hrs. lab. Accounting procedures in keeping farm inventories, single-entry classified farm cash accounts, single enterprise accounts, double-entry enterprise accounting (farm cost accounting), and other types of farm records; use of such information in managing a farm business; federal income tax reporting for farmers. Campbell

4015 Farm Management Principles (3) Fundamental economic and business principles applied to organization and operation of the farm business. Paxton, Musick

4016 Farm Organization and Management (4) 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. Huffman

4018 Agricultural Statistics (3-4) 3 hrs. lecture; 2 hrs. lab. Statistical methods and techniques essential for economic analysis and interpretation of agricultural data. Fielder

4020 Cooperation in Agriculture (3) Development, management, and related problems of cooperative agribusinesses. Roy

4024 Agricultural Prices (3) Offered in alternate years. Methods of collection and analysis of price data, including relationships between agricultural and industrial prices. Fielder

4038 Problems and Decision Making in Agribusiness Firms (3) For students planning careers in agricultural business. Identification, definition, and analysis of typical problems in agricultural business firms, emphasizing problems peculiar to such firms. Traylor

4051 Economics of Marketing Livestock, Meats, and Poultry Products (3) Market structure and organization, pricing, trends, supply and demand, price and income elasticity, efficiency, and costs. Roy, Schupp

4052 Marketing Milk and Milk Products (3) Market channels, characteristics, institutions, and government regulations involved in pricing and marketing of milk. Roy

4053 Seminar in Tropical Agricultural Resource Development (1) Economics of tropical agricultural development; opportunities for developing world trade in tropical agricultural products; potentials for improving agricultural economies and standards of living in areas dependent primarily on production of tropical agricultural products. Corty

4060 Schedule Design and Interview Techniques (1) Sources of data, questionnaire construction, and survey technique. Hudson

4064 Design of Samples and Surveys (3) Prereq: AgEc 4018 or equivalent. Offered in alternate years. Sampling theory and methods; application for related fields in social sciences and agriculture. Fielder

4067 Farm and Rural Land Appraisal (2) 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. Vandeever

3001-3002 Air Force Management and Leadership (3,3) 3 hrs. lecture; 1 hr. leadership lab. Managerial and leadership responsibilities of Air Force officers; concepts of individual motivation, organizational dynamics, and decision-making in military planning, budgeting, and operations.

3003-3004 National Security Forces in Contemporary American Society (3,3) 3 hrs. lecture; 1 hr. leadership lab. Completion of this course can result in the tender of a commission as a second lieutenant in the U.S. Air Force Reserve. International and domestic contexts in which U.S. defense policy is formulated and implemented; development of strategy, forces, and tactics in support of national policy; emphasis on social, economic, and technological influences.
4077 Research Problems (3) Independent research culminating in an oral and written research report acceptable to a faculty committee.

4082 Agricultural Finance (3) Capital and credit needs of farms and other agribusinesses; sources of funds, costs, terms, and risks involved in use of agricultural credit. Vandeever

4084 The Economics of Resource, Rural, and Community Development (3) Characteristics of underdeveloped areas; analysis of economic and related problems and potential for development, with emphasis on the southern states. Giedry

4088 Agricultural Policy, Farm Programs, and World Food-Population Problems (3) Analysis of policies, legislation, and programs; world food-population balance, domestic and world food supplies, demand, prices, and related problems. Cory

4092 Applied Programming Procedures in Agriculture (3) Offered in alternate years. Application of linear, dynamic, recursive, and other programming procedures to economic problems in agricultural production, marketing, and resource use. Fielder

4098 Agricultural Commodity Exchanges and Futures Trading (3) 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. Taylor

7003 Research Methods in Agricultural Economics (3) Offered in alternate years. Scientific method and problem-solving research; acquisition of reliable knowledge; research techniques for economic problems in agriculture. Law

AGRICULTURAL EDUCATION
(See School of Vocational Education, page 378.)

DEPARTMENT OF AGRICULTURAL ENGINEERING

HEAD: Brown, Professor
PROFESSORS: Braud, Cochran, Mayeux, Stipe, Thomas
ASSOCIATE PROFESSOR: Edling
ASSISTANT PROFESSORS: Sistler, Verma

Agricultural Engineering (AgE)

1248 Production Machinery in Agriculture (2) Engineering features of production machines; machine constructions, combination, power requirements, performance, efficiency, and capacity. Cochran

2369 Agricultural Power (3) Prereq: ME 2333 or 3333. 2 hrs. lecture; 3 hrs. lab. Design requisites of certain tractor components, thermodynamic principles, and construction; use, overall efficiency, and management of power units under farm conditions. Cochran

3104 Proseminar (1) Brown

3307 Elements of Landscape Construction (3) 2 hrs.

7010, 7011, 7012 Seminar in Agricultural Economics (1,1,1) Prereq: graduate major or minor in agricultural economics. 2 hrs. seminar, reports. Offered in rotation. Pass-fail grading. Current topics and research. Wiegmann

7016 Agricultural Production Economics (3) Production principles applied to use of agricultural resources, with analysis and interpretation of research data; theory of the farm firm, including costs, uncertainty, and expectations. Giedry

7018 Advanced Statistical Methods for Agriculture (3) 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. Fielder

7020 Seminar in Marketing (3) Basic and applied analytical procedures in marketing research, emphasizing quantitative methods; application of firm theory to marketing. Schupp

7028 Seminar in Agricultural Policies (3) Offered in alternate years. Development of agricultural policy; emphasis on objectives, procedures, accomplishments, and consequences. Cory

7031 Land and Natural Resource Economics (3) Offered in alternate years. Land use planning including economic concepts and institutional factors relating to utilization of natural resources—land, water, forests, space—emphasizing tenure, conservation, taxation, zoning, and agrarian adjustments. Giedry

7090 Advanced Methods and Research Design (3) Offered in alternate years. Selection and application of advanced research techniques in agricultural economics.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

OFFICE: 149 Agricultural Engineering Building
Agricultural Engineering (AgM)

2050 Farm Structures (2) Planning of farm buildings, fences, and farmstead arrangement; emphasis on functional and environmental requirements of animals, machinery, and product storage. Braud

2059 Farm and Shop Mechanics (3) 6 hrs. lab. Selection and use of hand and power tools for school and shop; use and maintenance of the basic tools used for carpentry, sheet metal, soldering, pipe fitting, masonry, wiring, and welding as related to farm shop and machinery maintenance. Thomas

2061 Mapping and Surveying (3) 2 hrs. lecture; 2 hrs. lab. Elementary mapping and surveying, with emphasis on soil and water conservation practices, drainage, and irrigation. Cochran

2065 Power Units (3) 2 hrs. lecture; 2 hrs. lab. Management and maintenance of power units used in agriculture, forestry, and the light construction industry; selecting proper size and type of tractor; shop and field practice in adjusting and operating internal-combustion engines and associated hydraulic systems. Verma

2066 Agricultural Field Machinery (3) 2 hrs. lecture; 2 hrs. lab. Selection of individual and combinations of field machines based on study of design and operating characteristics. Sistler, Thomas

2094 Agricultural Chemicals Application Methods and Equipment (2) 1 hr. lecture; 2 hrs. lab. Selection of methods of chemical application, types of equipment, types of chemicals, cost of use, and adaptation to agricultural needs, with laboratory and field practice in adjustment and operation of equipment. Thomas

3082 Electrification (3) 2 hrs. lecture; 2 hrs. lab. Farm electrical distribution system; selection, operation, and use of electrically powered farm and home equipment. Verma

3083 Farm and Power Equipment Sales and Service (2) Organization of farm and light industrial equipment sales business; management of the business; selling, financing, servicing, and demonstration of equipment. Verma

4030 Processing and Handling Equipment (3) 2 hrs. lecture; 2 hrs. lab. Techniques used in processing agricultural products; principles and equipment for handling, drying, and storage of biological products such as grain, forage, fruits, vegetables, hay, fertilizer, and farm wastes. Verma

4981 Agricultural Mechanization Special Topics (3)
AGRICULTURE*

Agriculture (Agri.)

1001 Introduction to Agriculture (1) All fields of agriculture; emphasis on opportunities and educational requirements.

*Courses administered by the College of Agriculture.

DEPARTMENT OF AGRONOMY

HEAD: J. P. Jones, Professor
ALUMNI PROFESSOR: Henderson
PROFESSORS: Brupbacher, Caffey, Caldwell, Dunigan, Golden, J. E. Jones, R. Miller, Mondart, Ricaud, Sedberry, Tipton
ASSOCIATE PROFESSORS: Gilman, Harville, Hoff, B. Miller, Robinson, Viator
ASSISTANT PROFESSORS: Feagley, Henshaw, Hudnall, Selim, Voth

AGRICULTURE*

Agriculture (Agri.)

1021 Crop Science (3) 2 hrs. lecture; 2 hrs. lab. Basic principles of crop production. R. Miller

3002 Cotton (3) 2 hrs. lecture; 2 hrs. lab. Varieties, species, genetics, breeding, cultural practices, fiber properties, and end use of products of lint and seed. Viator

3003 Grain Crops (3) 2 hrs. lecture; 2 hrs. lab. Soybeans, corn, rice, oats, and other cereal crops. R. Miller

4005 Forage Crops and Pasture Management (4) 3 hrs. lecture; 2 hrs. lab. Forage crops—their adaptation, production, establishment, utilization, and management in pastures. R. Miller

4008 Sugarcane (3) 2 hrs. lecture; 2 hrs. lab. Sugarcane and its production, particularly in Louisiana. R. Miller

4061 Rice Production (3) 2 hrs. lecture; 2 hrs. lab. Cultural and management practices in rice production. R. Miller

4063 Field-Plot Technique (4) 3 hrs. lecture; 2 hrs. lab. Planning, conducting, and interpreting field experiments. Henderson

4064 Plant Breeding (4) Prereq: Agri. 2072 or Zool. 2153. 3 hrs. lecture; 2 hrs. lab. Basic principles of breeding crop plants; application of biometric principles to interpretation of genetic data. Henderson

7020 Application of Cytogenetics to the Improvement of Crop Plants (4) See Hort. 7020.

7067, 7068 Advanced Plant Breeding (4,4) 3 hrs. lecture; 2 hrs. lab. Henderson

8901 Research in Crop Science (3-6) Prereq: consent of department.

SOIL SCIENCE

2051 Soil Science (4) Prereq: Chem. 1002 and 1212. 3 hrs. lecture; 2 hrs. lab. Fundamental principles of soil science and properties of soils as related to plant growth. Caldwell, Robinson

2072 Plant and Animal Genetics (3) Prereq: six sem. hrs. of biology, botany, or zoology. Basic genetic principles underlying improvement of domestic animals and plants.

3040 Soil Conservation (2) Causes and effects of soil erosion and sedimentation; methods of reducing erosion, sedimentation, and runoff. Voth

4052 Soil Fertility and Soil Management (4) Prereq: Agro. 2051. 3 hrs. lecture; 2 hrs. lab. Soil factors affecting crop growth; commercial fertilizers, lime, soil-improving crops; soil and tissue testing. Feagley

4055 Chemical Properties of Soil (4) Prereq: Agro. 2051 and Chem. 2252. 3 hrs. lecture; 3 hrs. lab. Chemical and mineralogical properties of soils from theoretical and technical viewpoints. Caldwell

4056 Soil Microbiology (4) 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. Dunigan

4058 Soil Morphology and Classification (4) 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. B. Miller

7051 Advanced Soil Fertility (3) Theory and current literature on the relation of soil factors to growth of crop plants. Sedberry

7052 Micronutrients in Soils and Crops (4) 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. Sedberry

7057 Advanced Soil Physics (4) 3 hrs. lecture; 2 hrs. lab. Physicochemical properties of soil colloids; soil structure, moisture, and aeration. Sedberry

7060 Soil Organic Matter (2) Prereq: consent of instructor. Offered in alternate years. Organic fraction of soils; emphasis on chemical composition. Dunigan

7065 Chemistry and Microbiology of Flooded Soils
and Sediments (3) Same as MSc 7105. Chemical and microbiological changes in fresh water, brackish water, and estuarine-flooded soils and sediments affecting availability of nutrients and growth of plants.

8902 Research in Soil Science (3-6) Prereq: consent of department.

ASSOCIATE PROFESSOR (MEDICAL TECHNOLOGY): Landry
Students registering for Allied Health 2155 and 3258 must make indemnifying deposits. 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.

Allied Health (AllH)

MEDICAL TECHNOLOGY

2155 Morphologic Hematology (3) 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.

2157 Medical Mycology (3) Prereq: Mbio. 2051. 2 hrs.

*Courses administered by the College of Chemistry and Physics.

DEPARTMENT OF ANIMAL SCIENCE

HEAD: Turner, Professor

PROFESSORS: Bidner, Chambers, Franke, Hembry, Humes, Smart, Thrasher

ASSOCIATE PROFESSOR: Godke

Animal Science (AnSc)

1011 Fundamentals of Animal Husbandry (3) 2 hrs. lecture; 2 hrs. lab. Beef cattle, sheep, swine, and horses; their role in American agriculture.

2071 The Breeds of Farm Animals (3) 2 hrs. lecture; 2 hrs. lab. Origin and characteristics of leading breeds of beef cattle, sheep, swine, and horses; development, adaptability, and distribution; breed types, organizations, and publications; comparative judging of representative animals.

2074 Basic Horse Husbandry (3) Prereq: AnSc 1011 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Basic principles of horse husbandry; origin, evolution, breeds, and functions of light horses; feeding, breeding, disease prevention, and management.

2098 Feeds and Feeding (3) Prereq: consent of department head. 2 hrs. lecture; 2 hrs. lab. Not open to students majoring in animal science. Basic principles of animal nutrition and their application in proper feeding of farm livestock.

3033 Elements of Live Animal and Carcass Evaluation (3) 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) Prereq: AnSc 3033. 1 hr. lecture; 4 hrs. lab. Advanced live animal and carcass evaluation.

3040 Classes and Grades of Livestock and Livestock Products (3) 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) Prereq: consent of department head. May be repeated for credit for a maximum of 3 sem. hrs. Comprehensive written report required. Directed individual study of a selected problem in feeding, breeding, management, or marketing of farm animals.

3053 Meats (3) Prereq: consent of department head. 2 hrs. lecture; 2 hrs. lab. Livestock and meat industry relationship; live animal carcass comparison, slaughtering, processing, identification, and utilization of meat and meat products.

3074 Farrier Science (2) Prereq: AnSc 2074 or consent of instructor. 4 hrs. lab. Fundamentals of horseshoeing; anatomy and physiology of the hoof, pastern, and legs; basics of trimming and shoeing, with introduction to forge work and making shoes.
4009 Animal Nutrition (3) Prereq: Chem. 2060 or consent of instructor. Basic principles of nutrition including chemical composition of feeding stuffs, digestion, metabolism, and functions and values of nutrients. Hembry

4010 Applied Animal Nutrition (3) Prereq: AnSc 4009 or consent of department head. 2 hrs. lecture; 2 hrs. lab. Applied nutrition covering feed requirements of swine, beef cattle, sheep, and horses with practice in formulating rations; identification, nature, and uses of feedstuffs. Thrasher

4015 Physiology of Reproduction in Farm Animals (4) Prereq: consent of department head. 3 hrs. lecture; 2 hrs. lab. Anatomy and physiology of reproductive organs of beef cattle, sheep, swine, and horses; factors affecting reproductive performance. Godke

4018 Principles of Animal Breeding (4) Prereq: Agri. 2072 or consent of instructor. 3 hrs. lecture; 2 hrs. lab. Inheritance of traits of economic importance in farm animals; records of performance, methods of selection, and systems of breeding for genetic improvement of all classes of farm livestock and poultry. Franke

4071 Tropical Livestock Husbandry (3) See Dary. 4071.

4081* Swine Production (3) Prereq: AnSc 4010 or consent of department head. 2 hrs. lecture; 2 hrs. lab. Practices in management of swine; breeding, feeding, and production in the south. Thrasher

4084* Beef Cattle Production (3) Prereq: AnSc 4010 or consent of department head. 2 hrs. lecture; 2 hrs. lab. Practical work in feeding, care, and management practices in production of beef cattle; emphasis on reproduction in the south. Thrasher

4086* Sheep Production (2) Prereq: AnSc 4010 or consent of department head. 1 hr. lecture; 2 hrs. lab. Theory and practical work on management, breeding, and feeding of sheep for production under southern conditions. Humes

4088* Horse Production (3) Prereq: AnSc 4010 and 4015. 2 hrs. lecture; 2 hrs. lab. Theory and practical work on management of horses; nutrition, reproduction, breeding, and production in the south. Humes

4092 Animal Science Proseminar (1) Papers on and discussion of nutrition, animal breeding and production, and meat processing and preservation.

4094 Meat Technology (3) Prereq: AnSc 3053; and Bch. 2083 or equivalent. 2 hrs. lecture; 2 hrs. lab. Offered in spring, even-numbered years. Bidner

7001 Experimental Methods (2) Prereq: credit or registration in EsSt 7001 or consent of instructor. Scientific methods applied to animal science. Franke

7006 Advanced Animal Breeding (3) Prereq: EsSt 7001. Franke

7030 Energy in Nutrition (3) Prereq: credit or registration in Bch. 4084. Energy-supplying nutrients and their metabolism; energy balance; measuring food energy needs; dietary density; energy restriction and related topics. Thrasher

7035 Laboratory Evaluation of Vitamins and Minerals (4) Prereq: Bch. 4084 or equivalent. 2 hrs. lecture; 4 hrs. lab. Chemical methods, techniques, and laboratory equipment for basic nutrition research. Hembry

7040 Advanced Swine and Horse Nutrition (2) Prereq: AnSc 4010 or equivalent. Applied nutrition as related to swine and horses. Thrasher

7042 Advanced Beef and Sheep Nutrition (2) Prereq: AnSc 4010 or equivalent. Interpretation and application of nutritional knowledge in beef and sheep production. Hembry

7050 Advanced Animal Physiology (4) Prereq: consent of instructor. 3 hrs. lecture; 2 hrs. lab. Offered in spring, even-numbered years. Godke

7051 Advanced Physiology of Reproduction (3) Prereq: AnSc 4051 or Dary. 4044. Offered in spring, odd-numbered years. Processes of reproduction in farm animals. Godke

7061 Research in Animal Science (1-6) Prereq: consent of department head. May be repeated for credit; maximum 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; and meat technology. Godke

7093 Seminar (1) May be taken 4 times for credit.

7094 Seminar in Nutrition (1) Same as Dary. 7094. FdSc 7094, HEc 7094, P1Sc 7094. May be taken twice for credit.

8000 Thesis Research (1-9 per sem.) Pass-fail grading.

9000 Dissertation Research (1-9 per sem.) Pass-fail grading.

ANTHROPOLOGY

(See Department of Geography and Anthropology, page 292.)

SCHOOL OF ARCHITECTURE

ACTING DIRECTOR: Heck, Alumni Professor
PROFESSORS: Aguilar, Colbert, Nielson (Associate Director), Smothers
ASSOCIATE PROFESSORS: Brigden, Glenny, Kaple, McQueen, St. Martin, Shih, Staub, Wachob, White
ASSISTANT PROFESSORS: Dietrich, Gamham, Henneke, Marshall, Stagg, Weisenthal, Wendler
INSTRUCTOR: Mathews

Courses listed to the left of hyphens are normally prerequisite to those listed to the right.
Architecture (Arch.)

1153 Architectural Basic Design (3) Prereq: satisfactory score on pre-test. 6 hrs. lab. Also offered as ID 1153. Two-dimensional representation of three-dimensional forms; three-dimensional modeling.

1161-1162 Introduction to Design Processes (3,3) Prereq: consent of instructor for students not majoring in architecture. Design problems of various scales, as acted on by various forces, using various methods: 2161 deals with awareness of problem types; 2162 with relation between design problems and various methods.

1181 Introduction to Visual Communication—1 (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) 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.

2141 History of Architecture (3) Efforts to shape the environment from its prehistoric beginnings through the medieval period.

2142 History of Architecture (3) Prereq: Arch. 2141. Efforts to shape the environment from the Renaissance in Italy through the present.

2151-2152 Introduction to Spatial Design (3,3) Prereq: admission to professional program in architecture or 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) Prereq: for 2153: all required freshman courses in the architecture curriculum. Arch. 2153 is a prerequisite for 2154. 12 hrs. studio. Beginning design problems in architecture; emphasis on the organization of spaces, form, and processes; fundamental architectural thought and the means of creating built form from these abstract notions.

2171-2172 Introduction to Building Systems (3,3) Coreq: Arch. 1161, 2141, and 2151. Building components, their functions and interactions; shape, composition, material, function, production, erection, and economy of different structural subsystems; integration of structural subsystems with other coexisting subsystems in a building.

2173 Automated Graphics for Designers (3) See EGR 2185.

2174 Introduction to Architectural Systems (3) Prereq: consent of instructor for students not majoring in architecture. Building systems analysis and selection; use of compatible architectural and structural systems, subsystems, and their components and assemblies, as affected by visual and spatial design criteria, physical requirements, and legal restrictions and standards.

2401 Appreciation of Architecture (3) Not open to architecture majors. Architectural concepts and principles; architectural vocabulary, style, symbolic form characteristics, spatial character, and refinements.

2402 Introduction to Structural Forms (3) Not open to architecture majors. Non-mathematical survey of structural elements and systems and their integration in the environmental design study of forces and force systems; state of stress; deformation; properties of shapes.

2475 Architecture of Energy (3) General energy situation; how both life style and physical characteristics of the built environment can best respond to energy problems; energy saving theory and methods of evaluating energy alternatives.

2481 Basic Architectural Presentation (3) Prereq: Arch. 2151 and 2153. Types of architectural presentation; strategies and techniques used.

2482 Architectural Presentation Techniques (3) Prereq: Arch. 2481 or equivalent. 6 hrs. lab. Various methods of presenting architectural design concepts; techniques of utilizing specific media including, but not limited to, ink and watercolor drawings and pencil and tempera renderings; architectural presentation renderings done in the specific media.

3000 Supervised Independent Study and Research (3) Prereq: consent of instructor. For students who have completed 60 hours of coursework. Investigation of areas of interest not covered in other departmental courses.

3001 Architectural Topics (3) May be taken 4 times for credit with consent of instructor. Individually prescribed topics in architecture.

3131 Urban Design and Planning (3) Prereq: Arch. 3153 or consent of instructor. Fundamentals of urban design and planning.

3143 History of Modern Architecture—I (3) Prereq: Arch. 2141 and 2142; or consent of instructor. Development of the modern movement in architecture from the late 18th century to the present.

3144 History of Modern Architecture—II (3) Prereq: Arch. 3143 or consent of instructor. Continued development of modern architecture from the late 18th century to the present.

3145 Louisiana and Gulf Coastal Architecture (3) History and development of Louisiana and Gulf Coastal architecture from the 17th century to the present.

3146 History and Theory of Urban Development (3) Physical response to social, economic, technical, philosophical (religious-political), and natural forces throughout the ages.

3151-3152 Architectural Design—Ill, IV (6,6) Prereq: for 3151: Arch. 1161, 2141, 2142, 2153-2154, 2171-2172, 2174. Arch. 3151 is a prerequisite for 3152. 12 hrs. lab. Design, presentation, and construction details of a complex nature.

3153-3154 Architectural Design—V, VI (6,6) Prereq: for 3153: Arch. 3143, 3144, 3151-3152, 3160, 3175,
3176. Arch. 3153 is a prerequisite for 3154. 12 hrs. lab. Advanced design problems in modern buildings and building groups; construction details.

3160 Architectural Administration (3) Prereq: Arch. 1161. Office management; organization and duties of the office staff; employment practices, personnel policy, insurance, bonds, taxes, social security, agreements, and preparation of contract documents.

3161 Architectural Administration (2) Prereq: Arch. 3160. Project administration; developing construction projects.

3162 Project Management—I (3) Subject matter and vocabulary; technical problems of finance, real estate, and law relative to development projects.

3163 Project Management—II (3) Prereq: Arch. 3162. Application of operations research and systems analysis techniques to the solution of problems in architecture, construction, and urban and regional planning; management of construction projects; computer applications.

3171 Mechanical Equipment of Buildings (3) 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) 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.

3175 Architectural Structures—I (3) Prereq: Arch. 2171. Also offered as CE 3981. Design of basic structural systems; calculation of loads and stresses; design of structural members for gravity loads; distribution of loads in a structural system; analysis of wind loads on buildings; design of simple structures.

3176 Architectural Structures—II (3) Prereq: Arch. 3175. Also offered as CE 3982. Continuation of Arch. 3175.

3212 Architectural Synthesis (3-6) May be repeated for credit for a maximum of 12 sem. hrs. with departmental approval. Individually prescribed advanced architectural study.


3221 Selected Topics in Architecture (1-6) May be repeated for credit for a maximum of 9 sem. hrs. with departmental approval. Seminar in various subjects related to architecture.

3251 Advanced Architectural Design (7) Prereq: Arch. 3154 and completion of all structural courses. 1 hr. lecture; 18 hrs. lab. Advanced problems in contemporary buildings and building groups of a highly complex nature.

3261 Office Practice and Specifications (3) Coreq: registration in Arch. 3251. Professional practice; client and contractor relationships; office management; estimating and specifications writing.

3270 Technology Studio (2) Prereq: Arch. 3153, 3171, 3173, and CE 3983. 6 hrs. lab. Integration of architectural, structural, mechanical, and electrical subsystems into a coordinated and interrelated whole; technological aspects of architectural design in relation to the building process.

3291 Advanced Architectural Design (7) Prereq: Arch. 3154 and completion of all structural courses. 1 hr. lecture; 18 hrs. lab. Continuation of Arch. 3251.


3441 Literature of Architecture (3) Prereq: Arch. 2141, 2142, 3143, and 3144. Development of aesthetic theory through architectural literature.

3442 Architecture in Louisiana Wetlands (3) Prereq: Arch. 3152 or LA 3153. Architecture as it relates to the problems and potentials of development and conservation; architectural problems unique to building in Louisiana wetlands, such as flooding, foundation problems, problems of population density, etc.

3453 Pattern Languages (3) Prereq: junior standing. The concept that characteristics which make a building beautiful can be defined and isolated through study and can be incorporated in design at all scales, from the smallest building through the largest complex of buildings.

3455 Automated Design and Heuristic Environments (3) Prereq: junior standing and CSc 1240 or equivalent. Automated and computer-aided spatial design, numerical analysis of spatial constellations; developing philosophy and realizations of responsive, heuristic-built environments.

3456 Climate and House Design (3) Climatic impact on the design of residential buildings.

3457 Hands on Materials—I (3) Prereq: Arch. 2154. 9 hrs. lab. Design and physical manipulation, construction, and/or fabrication of devices or components made primarily (but not necessarily exclusively) of steel.

3458 Hands on Materials—II (3) Prereq: Arch. 2154 or equivalent. 9 hrs. lab. Design and physical manipulation, construction, and/or fabrication of devices or components made primarily (but not necessarily exclusively) of masonry products.
3461 The Architect’s Office (3) Prereq: Arch. 3160. Architectural office organization; internal and external offices.

3462 Industrialization of Housing (3) The industrialization of housing—its many attempts and failures; understanding the causes behind the great number of failures.

3463 Scheduling Methodology (3) Scheduling and the related tools; exposure to Gantt charts, CPM, PERT, and computerized techniques.

3471 Structural Forms in Architecture (3) Prereq: Arch. 2171, 3175, and 3176. Analysis of fundamental and creative structural forms as related to architectural design; aesthetic considerations, structural system limitation and design, functional use, and material efficiency.

3472 Solar Heating and Cooling of Buildings (3) 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) 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 Solar Energy Application in Buildings (3) Prereq: Arch. 2172. Application of active and passive solar systems to heat and cool buildings; collective method, application, design guide, and construction considerations.

3481 Architectural Contract Documents—I (Drawings) (3) 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) Prereq: Arch. 2154. Organization and preparation of specifications required to form the basis of a construction contract between the owner and a building contractor.

Interior Design (ID)

1153 Architectural Basic Design (3) See Arch. 1153.

2720 Materials and Furnishings for Interior Design (3) Prereq: sophomore standing in the major. Materials, finishes, and furnishing types and sources available to the interior designer.

2751 Interior Design Studio (3) Prereq: admission to the professional program and Arch 2151. 1 hr. lecture; 5 hrs. lab. Design process involved in programming, space planning, analysis, communication, and construction of interior spaces for human habitation; relationship of interior spaces to architecture and building site.

3720 Seminar in Interior Design (3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. when topics vary. Special topics not covered in other interior design courses.

3721 Home Planning (3) 2 hrs. lecture; 2 hrs. lab. Readings, discussions, trips, and practical studio problems. Understanding and working knowledge of basic principles of design as applied to housing; exploration of concepts in domestic planning and use of materials.

3722 Interior Designing (3) 2 hrs. lecture; 2 hrs. lab. Readings, trips, and practical studio problems. Planning and organizing single rooms, apartments, and residences to meet personal and family needs involved in present-day living; home furnishing design, arrangement, color, and materials; relation of furnishings to architectural space.

3741 History of Interior Design and Decoration—I (3) Interiors, interior architecture, furnishings, and cultural influences of the times, ancient through 17th century.

3742 History of Interior Design and Decoration—II (3) 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—II (4) Prereq: ID 2751 or equivalent; nonmajors by consent of instructor only. 1 hr. lecture; 7 hrs. lab. Offered fall semester only. Basic space planning and interior design problem solving; communication and visual presentation of design ideas.

3753 Interior Design—III (5) Prereq: ID 3752; nonmajors by consent of instructor only. 1 hr. lecture; 9 hrs. lab. Offered spring semester only. Interior design problems of a complex nature stressing interrelationship of multiple interior spaces, their equipment, and furnishings.

3754 Interior Design—IV (5) Prereq: ID 3753. For interior design majors only. 1 hr. lecture; 9 hrs. lab. Offered fall semester only. Advanced interior design problems; experimental and innovative concepts, materials, and furnishings.

3755 Interior Design—V (5) Prereq: ID 3754. For interior design majors only. 1 hr. lecture; 9 hrs. lab. Offered fall semester only. Advanced interior design problems; research, programming, and design synthesis of a major final project.

3756 Advanced Interior Design Studio (4) Prereq: ID 2751 or equivalent; nonmajors by consent of instructor only. 1 hr. lecture; 7 hrs. lab. Must be taken four times for credit by interior design majors; four additional hours may be taken for elective credit. Interior design problems of a complex nature; includes programming, research, concept formation, and space planning; interrelation of multiple interior spaces, including their equipment, materials, and furnishings.

3759 Special Studies in Interior Design (3) Prereq: consent of instructor. May be taken twice for credit. 6 hrs. lab. Advanced studio work in predetermined areas of specialization.
3760 Professional Practice (3) Prereq: senior standing in the major. Business practices for the interior designer; exploration of design contracts, office management, team projects; control, coordination, and supervision of service agencies.

3770 Color for Interior Spaces (3) Prereq: ID 2751 or equivalent; nonmajors by consent of instructor only. 1 hr.

SCHOOL OF ART

DIRECTOR: Rutkowski, Professor

PROFESSORS: Bruce, Burke, Cavanaugh, Dufour, Garrett, Harris, Pramuk, Warrens

ASSOCIATE PROFESSORS: Bova, Bower, Cox, Crespo, Daugherty, Mauck, Menendez, Tetzner, Wente

ASSISTANT PROFESSORS: Arp, Bacot, Detrie, Guichet, Harding, Hausey, Hentz, Lyon, Meek

INSTRUCTORS: Albertine, DeVitis, Johns, Nicola

The School of Art will retain a limited number of examples of each student’s best work for exhibition purposes and the department’s permanent collection.

For graduate programs in this department, see the Graduate School Catalog.

B.F.A. Degree

Through the College of Design, the School of Art offers the B.F.A. degree with a major in crafts (ceramics option or stained glass option), painting, printmaking, or sculpture. Detailed information concerning the requirements for this degree may be obtained from the department.

B.A. Degree

Students in the College of Arts and Sciences may select fine arts (studio art or art history) as their concentration. General requirements for the B.A. degree with this concentration may be found in the section of this catalog entitled “Curricular Requirements” for the College of Arts and Sciences (page 106). School of Art requirements for such students are as follows:

Studio Art: Fine Arts 1001, 1011, 1361, 1440, 1761, 1847, 1848, 2551, 2881, and an additional 12 hours including nine hours in studio courses numbered above 3000.

Art History: Fine Arts 1440 and 1441; three hours each in ancient, medieval, renaissance, baroque, and modern art; and 12-15 hours of art history electives. Fine Arts 1001 is not to be included as part of the art history requirements. A maximum of 12 hours in studio courses beyond the art history requirements may be applied toward graduation.

B.S. Degree

Students in the College of Education may major in art for the B.S. degree. Those planning to teach art in the secondary school should confer with the art education adviser in the College of Education concerning certification requirements. For primary, elementary, and secondary school teachers (not art teachers), a special curriculum to include art principles and practice has been developed (see Fine Arts 2655 and 2271-2272).

Course Numbering System

In this department, the second digit of the course number denotes the subject area of the course as follows: 0—general courses; 1—not used; 2—art education; 3—printmaking; 4—art history; 5—design; 6—ceramics and crafts; 7—sculpture; and 8—painting and drawing.

Fine Arts (FiAr)

GENERAL COURSES

1001 Introduction to Fine Arts (3) Discussions, lectures, outside readings, and gallery assignments. 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) The disciplines in art, with practice in the various media.

2095 Basic Photography (3) 2 hrs. lecture; 4 hrs. lab. Basic photographic concepts and techniques; practical and expressive application of photographic processes to the visual arts.

2096 Intermediate Photography (3) Prereq: FiAr 2095. 3 hrs. lecture; 3 hrs. lab. A combination of experimental darkroom lab techniques; continuing development of black and white photography, with emphasis on creative image orientation.

3096 Color Transparencies (3) Prereq: basic photography. 3 hrs. lecture; 3 hrs. lab. A combination of experimental darkroom lab techniques; continuing development of color photography, with emphasis on creative image orientation.

4095 Independent Study in Photography (3) 2 hrs. lecture; 4 hrs. lab. Studio production of fine prints; independent individual creative research and problems in photography.

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.

8000 Thesis Research (1-9 per sem.) Prereq: student must pass graduate faculty review exam.

ART EDUCATION

2271-2272 Art Education for Elementary Schools (3,3) FiAr 2271 is prerequisite for 2272. 2 hrs. lecture; 2 hrs. studio work. Critical analysis and evaluation of past and present concepts of art education; developing a functional art program for the elementary schools of 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) Offered summer only. 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) For students concentrating in art education. Seminar course; 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.

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.

1381 Introduction to Serigraphy (3) 6 hrs. studio. Basic screen printing techniques in color work.

2362 Intermediate Intaglio (3 or 6) Prereq: FiAr 1361. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 9 sem. hrs. Advanced intaglio techniques.

2372 Intermediate Lithography (3 or 6) Prereq: FiAr 1371. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 9 sem. hrs. Planographic printing from stones and plates in black and white and color.

3461 Advanced Intaglio (3 or 6) Prereq: consent of instructor based on review of student’s portfolio. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Advanced intaglio techniques.

3466 Special Studies in Printmaking (3 or 6) Prereq: consent of instructor based on review of student’s portfolio. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Advanced work in a predetermined area of specialization.

3471 Advanced Lithography (3 or 6) Prereq: consent of instructor based on review of student’s portfolio. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Planographic printing from stones and plates; special emphasis on color work.

7300 Graduate Printmaking (3, 6, 9, or 12) 6, 12, 18, or 24 hrs. studio. May be repeated for credit for a maximum of 36 sem. hrs.

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, mannerist, baroque, and rococo.

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 and Engravings (3) History of prints, engravings, and etchings from the 15th to the 20th century.

4403 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 upon another and subsequent contributions to Western art.

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 the 12th-century Byzantium.

4406 Romanesque Art (3) Architecture, sculpture, manuscripts, and painting from the 9th through the 12th centuries in France, Germany, and England.

4408 The Art of Greece (3) Development of architecture, sculpture, painting, and minor arts beginning with the Aegean world and continuing through the Hellenistic period.

4412 Gothic Art (3) Architecture, sculpture, and painting of Northern Europe from 1150 to 1450.

4413 German and Netherlandish Painting (3) Art of the Low Countries and Germany in the 15th and 16th centuries, with emphasis on such masters as the Limbourgans, van Eyck, van der Weyden, Bosch, Dürer, Grünewald, Cranach, Altdorfer, and Bruegel.

4416 History of Spanish Art (3) Spanish art from Hispano-Roman times to the present, with emphasis on the period since 1450.

4418 English Painting of the 18th and 19th Centuries (3) Painters of Great Britain in the 18th and 19th centuries; investigation of the 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.

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.

4425 Renaissance Sculpture in Italy (3) Italian sculpture from 1250 to 1600; emphasis on Ghiberti, Donatello, Michelangelo, Giambologna.

4426 Renaissance and Mannerist Painting in Central Italy (3) Central Italian painting, 1300-1600; emphasis on Giotto, Masaccio, Fra Angelico, Leonardo da Vinci, Raphael, Michelangelo, Pontormo.

4427 Northern Baroque Art (3) 17th-century European art outside Italy, emphasizing Rubens, van Dyck, Rembrandt, Hals, Vermeer, Poussin, and Velasquez.

4429 Baroque in Italy (3) Art and architecture in Italy from 1600 to 1750.

4432 History of French Painting (3) French painting from 1400 to 1900.

4433 18th-Century European Art (3) Rococo, romanticism, and neoclassicism in 18th-century European art.

4434 Modern European Painting (3) European painting from the "avant garde" movements of the mid-19th century to the present; limited to the painters; literary and social involvements to which the painters were committed.

4436 Modern American Painting (3) American painting since 1900.

4437 History of European and American Sculpture, 1840 to Present (3) European and American sculpture from 1840 to the present.

4448 Oriental Art (3) Asian art; introduction to the arts of China, India, and Japan in relation to religious and philosophical beliefs which affected their production.

4464 American Art (3) North American painting, architecture, and sculpture, from colonial beginnings to 1900.

4467 Latin American Art (3) Pre-Hispanic, colonial, and contemporary architecture, painting, sculpture, and related arts throughout Latin America.

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.

DESIGN

2551 Design (3) 6 hrs. lab. Design as a basic, problem-solving, creative activity; two- and three-dimensional project work, individual criticism, class discussions, and outside research.

2552 Design (3) Prereq: FiAr 1011 or consent of instructor. 6 hrs. lab. Exploration of aerial and scalar perspective through problems related to the interaction of color; manipulation of the plastic environment through illusion and analysis of the discrepancy between physical fact and psychic effect.

2553 Introduction to Product Design (3) Prereq: Engr. 1001 and FiAr 2551. 6 hrs. lab. Origins and purposes of product design; basic understanding of interactions of human needs, technology, and product design; fundamental project development; prototype construction, presentation methods, field trips.

2554 Introduction to Advertising Design (3) 6 hrs. lab. Agency-studio procedures and techniques (thumbnail sketches, layout, and comprehensive presentation); a variety of design problems, with emphasis on letterforms commonly used in advertising.

3511 Color in Lighting (3) 1 hr. lecture; 5 hrs. lab. The color effects of light on various transparent, translucent, and opaque materials; color light mixing systems; display effects available through colored lighting.

4514 Experimental Design—1 (4) Prereq: FiAr 4551 or 4552, and consent of instructor. 9 hrs. lab. Experimental work in materials investigation, construction innovations, and test model performance evaluations.

4541 Special Studies in Design (3) Prereq: consent of instructor. 6 hrs. studio. Advanced studio work in a predetermined area of specialization.

4551 Design (3) 6 hrs. lab. Security deposit. Analysis of problems in design related to the professional design field; creative work in methods of reproduction, exhibition techniques, and industrial and product design.

4552 Produce Design (3) Prereq: FiAr 2553 or consent of instructor. 6 hrs. lab. Technology, needs, and market as related to the mass-produced article; materials research; human engineering; prototype construction; presentation methods; field trips.

4554 Advertising Design (3) Prereq: completion of all freshman and sophomore courses for curricula in speech, marketing, journalism, or fine arts; FiAr 2554; or consent of instructor. 6 hrs. lab. Basic advertising problems, with emphasis on production and layouts; specifications and preparation of copy and photographs for reproduction; use of typography; a variety of design problems.

4556 Advanced Design (5) Prereq: 3 sem. hrs. in advanced design coursework and consent of instructor. 10 hrs. lab. Advanced studio work in a predetermined area of design specialization.

4557 Degree Project in Design (5) Prereq: 3 sem. hrs. in advanced design coursework and consent of instructor. 10 hrs. lab. Advanced studio work in predetermined areas of design specialization.

7551-7552 Graduate Design (3,3) 6 hrs. lab.

7553, 7554, 7555, 7556 Graduate Research in Design (3 each) Prereq: consent of instructor. 6 hrs. lab.

CERAMICS AND CRAFTS

1645 Introduction to Stained Glass (3) 3 hrs. lecture; 3 hrs. lab. Two-dimensional design fundamentals; analysis of the phenomena of light and color; elementary techniques of flat glass construction.

1661 Introduction to Ceramics (3) 6 hrs. studio. Studio problems in pottery, glazing, and kiln firing.

2645 Stained Glass (3) Prereq: FiAr 1011, 1847, 1848, and consent of instructor. 1 hr. lecture; 5 hrs. studio. Limited enrollment. Materials fee. Design and execution
of stained glass windows; craftsmanship and differentiation of styles and techniques.

2646 **Stained Glass (3)** Prereq: FiAr 2552, 2645, and consent of instructor. 1 hr. lecture; 5 hrs. studio. Limited enrollment. Materials fee. Design and execution of stained glass windows; craftsmanship and differentiation of styles and techniques.

2655 **Basic Jewelry/Metalsmithing (3)** 1 hr. lecture; 5 hrs. studio. Basic course in jewelry/metalsmithing; includes piercing, construction, cold connection, soldering, forming, and stone setting; studio problems in bronze, copper, and sterling silver.

2656 **Jewelry/Metalsmithing: Casting (3)** Prereq: FiAr 2655 or equivalent. 1 hr. lecture; 5 hrs. studio. Basic course in jewelry/metalsmithing; includes sand casting, cutlery, and centrifugal casting; studio work in bronze, sterling silver, and gold.

2661 **Ceramics (3 or 6)** Prereq: FiAr 1661. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 9 sem. hrs. Studio problems in ceramics; formulation of clay bodies and glazes; theories of kiln operation and maintenance.

2645-2646 **Stained Glass (3,3)** Prereq: FiAr 2645 and 2646. 1 hr. lecture; 5 hrs. studio. Limited enrollment. Materials fee. Intermediate stained glass; design and execution of stained glass panels; emphasis on conceptualizing within the medium; lectures on the early history of glass.

3661 **Intermediate Ceramics (3 or 6)** Prereq: FiAr 2661 and completion of the core courses in fine arts. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Open only to ceramics majors. Studio problems in contemporary concepts of ceramics.

4641 **Special Studies in Ceramics (3 or 6)** Prereq: 6 sem. hrs. of credit in FiAr 4661. May be repeated for credit for a maximum of 12 sem. hrs. Advanced studio work in predetermined area of specialization.

4645 **Stained Glass (3)** Prereq: FiAr 3645-3646 and consent of instructor. 1 hr. lecture; 5 hrs. studio. May be taken 3 times for credit. Limited enrollment. Materials fee. Advanced stained glass; design and execution of stained glass panels; emphasis on conceptualizing within the medium; lectures on contemporary stained glass.

4648 **Stained Glass (3)** Prereq: 9 sem. hrs. in FiAr 4645. 1 hr. lecture; 5 hrs. studio. May be taken twice for credit. Limited enrollment. Materials fee. Independent experiment in stained glass terminating in a senior exhibition.

4651 **Special Studies in Jewelry/Metalsmithing (3)** Prereq: consent of instructor. 1 hr. lecture; 5 hrs. studio. May be taken twice for credit. Studio work in a predetermined area of specialization; emphasis on a single technique or material.

4655 **Advanced Jewelry/Metasmithing (3)** Prereq: FiAr 2655 or equivalent. 1 hr. lecture; 5 hrs. studio. May be taken twice for credit. Advanced studio problems in forging, forming, reproduction processes, and construction techniques; emphasis on the historical and contemporary subject of jewelry/metalsmithing.

4661 **Advanced Ceramics (3, 6 or 9)** Prereq: FiAr 3661 and/or approval of portfolio by ceramics faculty. 6, 12, or 18 hrs. studio. May be repeated for credit for a maximum of 24 sem. hrs. Studio problems in ceramics.

4671 **Ceramic Sculpture (3 or 6)** Prereq: FiAr 1762 and consent of instructor. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Clay as a medium for sculpture.

4681 **Glassblowing (3 or 6)** Prereq: completion of the core courses in fine arts. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs.

4691 **Senior Project (3)** Prereq: 12 sem. hrs. of credit in FiAr 4661. 6 hrs. studio. May be taken twice for credit. Proposal and execution of a project under the direction of major professor.

7600 **Graduate Ceramics (3, 6, 9, or 12)** 6, 12, 18, or 24 hrs. studio. May be repeated for credit for a maximum of 36 sem. hrs.

7645 **Graduate Stained Glass (3)** Prereq: consent of instructor. 6 hrs. studio. May be taken twice for credit. Limited enrollment. Materials fee. Student-centered creative activity emphasizing personal expression with the medium and invention of unique possibilities; problems involved with large-scale commissions.

7647 **Graduate Research in Stained Glass (3)** Prereq: consent of instructor. 6 hrs. studio. May be taken 3 times for credit. Limited enrollment. Materials fee.

**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 or 6)** Prereq: consent of instructor based on review of student's portfolio. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 9 sem. hrs. Assigned projects on figurative and non-figurative 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, or 9)** Prereq: consent of instructor based on review of student's portfolio. 6, 12, or 18 hrs. studio. May be repeated for credit for a maximum of 15 sem. hrs. Student projects with personal choice of concepts, materials, and methods.

4762 **Senior Project (3)** 6 hrs. studio. Proposal and execution of independent 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 credit for a maximum of 24 sem. hrs.
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: FiAr 1848. 6 hrs. studio. Imaginative composition utilizing the figure, still-life, and landscape forms.

2881 Painting (3) Prereq: FiAr 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.

2882 Painting (3) Prereq: FiAr 1847 and 1848 and/or 2888; and 2881. 6 hrs. studio. Studio approaches to abstraction; thematic problems based on the figure and nature forms, synthesizing form and experience; individual criticism, class discussion.

2883 Water Media Painting (3) Prereq: FiAr 1847 and 1848. 6 hrs. studio. Objects and landscape; composition in water-soluble media on paper.

2885-2886 Sketch Class (1,1) Open to all students. No credit for students in the studio program of fine arts. Meets 1 night a week. Sketching in various media.

4800 Senior Project (5) Prereq: FiAr 4883 or 4884. 10 hrs. studio. Proposal and execution of a painting project by the student.

4841 Special Studies in Painting (3 or 6) Prereq: consent of instructor based on review of student's portfolio. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 9 sem. hrs. Advanced studio work in a predetermined area of specialization.

4880 Figure Painting (3 or 6) Prereq: FiAr 2879, 2881, and 2882. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Contemporary concepts in painting; approaches to imagery, symbolism, empathy; individual criticism, class discussion.

4881 Intermediate Painting (3 or 6) Prereq: FiAr 2881 or 2883. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Study from the nude model.

4883 Mixed Media (3) Prereq: 6 sem. hrs. of painting, 6 hrs. studio. Studio problems and research in traditional and experimental materials and techniques.

4884 Advanced Painting (3) Prereq: FiAr 2883 and 4883. 9 hrs. studio. Research into advanced visual schema through self-initiated studio problems.

4886 Landscape and Portrait Painting (3) On location and studio development of rural and urban subjects; traditional and modern approaches to the head and the clothed figure; slide presentations, individual and group criticism.

4887 Advanced Figure Drawing (3) Prereq: FiAr 2879 or equivalent. 6 hrs. studio. Study of the human figure using various media.

4889 Advanced Drawing Workshop (3 or 6) Prereq: 6 sem. hrs. of drawing, 6 or 12 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Directed studies for advanced students.

7800 Graduate Painting (3, 6, 9, or 12) 6, 12, 18, or 24 hrs. studio. May be repeated for credit for a maximum of 24 sem. hrs.

ARTS AND SCIENCES

(See Division of Honors and Interdisciplinary Studies, page 308.)

ASTRONOMY

(See Department of Physics and Astronomy, page 349.)

DEPARTMENT OF BIOCHEMISTRY

HEAD: Allen, Professor
PROFESSORS: Mattice, Younathan
ASSOCIATE PROFESSORS: Chang, Risinger
ASSISTANT PROFESSORS: Blakeney, Deutsch, Montelaro

Laboratory Expenses: Students registering for laboratory courses in biochemistry must make indemnifying deposits. 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.
Biochemistry (Bch.)


2084* Elementary Biochemistry Laboratory (1) Prereq: one semester of chemistry laboratory, Chem. 2060, and credit or registration in Bch. 2083. 3 hrs. lab. Deposit.

2280 Introduction to Biochemistry (1) Prereq: 8 sem. hrs. of chemistry. Not open to students with credit for any other biochemistry lecture course. Nature of biochemical problems; scientific approach to their solution.

2950 Research Internship (1) May be taken 4 times for credit. Introduction to research in biochemistry by association with a departmental research group.

3058 Quantitative Laboratory (3) See AllH 3258.

3999 Undergraduate Research (1-3) May be repeated for credit for a maximum 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) Prereq: Chem. 2261 and Phys. 2002; Math 1050 desirable. Theoretical chemistry; emphasis on solutions, equilibria, and topics of interest to students in agricultural and biological sciences. Mattice

4083 Physiological Chemistry (3) Prereq: Chem. 2251 and 2262. Credit will not be given for both this course and Bch. 4087 or 4933. Introductory course.

4084 Physiological Chemistry (3) Prereq: Bch. 4083. Credit will not be given for both this course and Bch. 4394. A continuation of Bch. 4083.

4087 Basic Biochemistry (3) Prereq: Chem. 2251 and 2262. Credit will not be given for both this course and Bch. 4083 or 4933. Cellular macromolecules; production and utilization of energy by the cell; major metabolic pathways and their control. Allen, Blakeney

4089 Veterinary Biochemistry (3) See VMed 5101.

4385 Biochemistry Laboratory (3) Prereq: credit or registration in Bch. 4083 or 4087 or 4393. 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. Chang

4390 Information Retrieval in the Sciences (1) 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.

4393 General Biochemistry (3) Prereq: Chem. 2262 and 4491. Credit will not be given for both this course and Bch. 4083 or 4087. Introductory course; principles of biochemistry from the standpoint of foundations in analytical, organic, and physical chemistry. Younathan

4394 General Biochemistry (3) Prereq: Bch. 4393 or consent of instructor. Credit will not be given for both this course and Bch. 4084. A continuation of Bch. 4393, with emphasis on metabolism.

4395 Advanced Experimental Biochemistry (3) Prereq: credit or registration in Bch. 4083 or 4393 or consent of instructor. 1 hr. lecture; 6 hrs. lab. Deposit. Advanced technology of research methods in biochemistry; emphasis on classical and new approaches to lipid, carbohydrate, nucleic acid, and protein biochemistry; application of these techniques in individual research projects.

4397 Biochemical Reaction Mechanisms (3) Prereq: Bch. 4393 and Chem. 2262. Basic concepts of biochemical reaction mechanisms. Risinger

4595 Physical Chemistry of Macromolecules (3) Prereq: Chem. 2262 and 4492. Also offered as Chem. 4595. Theory and physical techniques appropriate for study of conformational and dilute solution properties of polypeptides, proteins, nucleic acids, polysaccharides, and synthetic polymers.

7280 Biochemistry of Nucleic Acids (3) Prereq: Bch. 4083 or 4393 or consent of instructor. Organic chemistry and biochemistry of nucleic acids; biochemical mechanisms of gene action; emphasis on reviewing recent literature. Chang

7281 Advanced Biochemistry (3) Prereq: Bch. 4084. Biochemical aspects of living cells; emphasis on metabolic systems and research techniques.

7282 Biochemical Regulation and Control (3) Prereq: Bch. 4084 or 4394 or consent of instructor. Regulation of biochemical systems by levels of metabolites and enzymes, protein-protein interactions, actions of hormones and neuroendocrine systems, and metabolic systems.

7284 Chemistry of the Proteins (3) Prereq: Chem. 4491 or Bch. 4001, and Bch. 4083 or equivalent. Conformations of fibrous and globular proteins; their interactions with small and large molecules. Mattice

7285 Advanced Enzymology (3) Prereq: one semester of physical chemistry and credit or registration in Bch. 4084 or 4394. Principles involving action of enzymes on a molecular level; includes kinetics, inhibition, pH effects, active site, coenzymes, reaction mechanism, and protein structure of enzymes. Younathan

7286 Seminar (1) May be taken 8 times for credit. Reports and discussions on topics of current interest in biochemistry.

7287 Special Topics in Biochemistry (2) Prereq: Bch. 4394 or consent of instructor. May be taken 4 times for
credit. Specialized treatment of a variety of modern biochemistry topics of current interest.

7288 Lipid Chemistry (2) Prereq: Bch. 4084 or 4394. Chemistry and metabolism of lipids; role of lipids in physiological and pathological processes.

8000 Thesis Research (1-9 per sem.)
8900 Predissertation Research (1-9 per sem.)
9000 Dissertation Research (1-9 per sem.)

BIOLOGY
(See Department of Botany, below, and Department of Zoology and Physiology, page 380.)

DEPARTMENT OF BOOKS AND LIBRARIES

CHAIRMAN: Hauer, Associate Professor
ASSISTANT PROFESSOR: Murray
INSTRUCTOR: Dantin

Books and Libraries (BkLi)

1001 An Introduction to the Use of the Library (1)
Lectures and research problems dealing with basic fundamentals of research and bibliography-making through use of general and special reference books, indexes, and card catalog.

DEPARTMENT OF BOTANY

CHAIRMAN: Schencky, Professor
PROFESSORS: Longstreth, Dickey
ASSOCIATE PROFESSORS: Chapman, Luke, Urbatsch
ASSISTANT PROFESSORS: Lieux, Longstreth, Whipple
INSTRUCTOR: Dikey

Students concentrating in botany must complete 24 semester hours of botany courses, including Botany 1001, 1002 or Biology 1001, 1002, 1003, 1004 plus Botany 3060, and eight hours in courses numbered above 3000. Microbiology 2051 and Zoology 2153, 2154 may be counted toward the 24-hour requirement. One year of organic chemistry (equivalent to Chemistry 2261, 2262, 2364) and one year of college physics with laboratory (equivalent to Physics 2001-2002, 2008-2009) are required. Calculus is strongly recommended. Prospective graduate students will be expected to meet the above requirements and be prepared to teach or assist in teaching one or more courses in botany for at least two semesters in partial fulfillment of the requirements for advanced degrees in botany.

Biology (Biol.)*

1001, 1002 General Biology (3,3) Biol. 1001 and 1003 may not be taken for credit by students who have had Zool. 1001 or 1002; Biol. 1002 and 1004 may not be taken for credit by students who have had Boty. 1001 or 1002; Students concentrating in zoology must take Zool. 1001 and 1002, not Biol. 1001, 1002, 1003, 1004. Basic principles of biology.

1003, 1004 General Biology Laboratory (1,1) Prereq: credit or registration in Biol. 1001 and 1002. Students concentrating in zoology must take Zool. 1001, 1002, not Biol. 1001, 1002, 1003, 1004. 2 hrs. lab. Lab to accompany Biol. 1001, 1002.

Botany (Boty.)

1001, 1002 General Botany (4,4) 3 hrs. lecture; 2 hrs. lab. Credit will not be given for both these courses and Biol. 1002, 1004.

2055 Field Botany (4) 2 hrs. lecture; 4 hrs. lab. Primarily for students majoring or minoring in biology education. Field service fee. Systematic and ecological approach to the major plant groups; emphasis on laboratory and field experiences.

3060 Introductory Plant Physiology (4) See PIPa 3060.

3900 Undergraduate Botanical Research (1-4) Prereq: consent of instructor. May be repeated for credit for a maximum of 8 sem. hrs.

4020 Taxonomy and Ecology of Aquatic Plants (3) 1 hr. lecture; 4 hrs. lab; extended field trips. Also offered as Wild. 4020. Field service fee. Taxonomy, ecology, distribution, and economic significance of aquatic plants in Louisiana.

4024 Plant Anatomy (4) 2 hrs. lecture; 4 hrs. lab. Struc-
ture and development of plants, with special reference to vascular plants.

4026 Cytology (3) Prereq: a minimum of 6 sem. hrs. of preparation in biological sciences. Structure of plant and animal cells, including "typical" and specialized cells of both prokaryotes and eukaryotes; emphasis on historical developments in establishment of current theories.

4034 Morphology of Vascular Plants (4) 2 hrs. lecture; 4 hrs. lab. Offered alternate years. Field service fee. Phylogenetic survey of plant form and development among vascular plants from ferns and related forms through gymnosperms and angiosperms.

4041 Plant Taxonomy (3) 1 hr. lecture; 4 hrs. lab. Field service fee. Principles of classification and nomenclature; application to selected plant groups.

4042 Projects in Plant Taxonomy (3) Prereq: Boty. 4041 or consent of instructor. 1 hr. conference; 4 hrs. lab. Field service fee. Essentially individual instruction; student responsible for selecting a plant taxonomy project related to his or her interests.

4046 Plant Ecology (4) 2 hrs. lecture; 4 hrs. lab. Field service fee. Ecological principles pertaining to plant populations and communities and their environmental interactions.

4052 Phycology (4) Prereq: one year of preparation in biological science. 2 hrs. lecture; 4 hrs. lab. Field service fee. Freshwater and marine algae, including consideration of morphology, biology, ecological role, and economic significance.

4054 Mycology (4) 2 hrs. lecture; 4 hrs. lab. Field service fee. Major fungus groups; emphasis on historical, taxonomic, morphological, and ethnobotanical aspects.

4056 Lichenology (3) 2 hrs. lecture; 3 hrs. lab. Field service fee. Lichen morphology, physiology, ecology, and systematics.

4083 Population Ecology of Plants (3) Prereq: Boty. 4046 or consent of instructor. Offered alternate years. Plant population growth and regulation, life history phenomena, competition, energy budgets, and evolutionary ecology.

4172 Plant Microtechnique (3) Prereq: Boty. 4024 or consent of instructor. 1 hr. lecture; 4 hrs. lab. Offered alternate years. Technique of and practice in making permanent slides.

4653 Marine Botany (4) Prereq: 12 hrs. in biological science, including some botany. Offered summer term only. Four weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi.

7025 Advanced Plant Anatomy (3) Prereq: Boty. 4024 or consent of instructor. 3 hrs. lecture, discussion. Analysis of meristic activity and growth patterns in vascular plants; basis and mechanisms of differentiation and experimental studies of normal growth processes.

7043 Advanced Plant Taxonomy (4) Prereq: Zool. 2153 or Agri. 2072, and Boty. 4041; or consent of instructor. 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.

7048 Palynology (4) Prereq: Boty. 4041 or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Pollen and spores of extant vascular plants; pollen and spore morphology, taxonomy, and ecology; pollen of trees and shrubs.

7053 Advanced Phylogeny (4) Prereq: Boty. 4052 or consent of instructor. 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 (4) Prereq: Boty. 4054 or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Field service fee. Morphology, cytology, taxonomy, and nomenclature of selected fungus taxa.

7061 Plant Growth and Development (3) See PIPa 7061.

7063 Plant Metabolism (3) See PIPa 7063.

7065 Mineral Nutrition of Plants (3) Prereq: Boty. 3060. Also offered as PIPa 7065. Requirements and physiological functions of mineral nutrients in plants.

7066 Mineral Nutrition of Plants Laboratory (1) Prereq: credit or registration in Boty. 7065. 3 hrs. lab. Also offered as PIPa 7066. Laboratory procedures and experience pertinent to plant nutrition.

7067 Selected Topics in Plant Physiology (2) Prereq: consent of instructor. May be repeated for credit. Also offered as PIPa 7067. Mineral nutrition, metabolism, growth and development, and herbicides.

7068 Current Literature in Plant Physiology (1) See PIPa 7068.

7082 Research Methods in Plant Ecology (3) Prereq: Boty. 4046 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Offered alternate years. Field service fee. Methods employed in description and analysis of vegetation.

7701 Electron Microscopy (2) Same as ME 7701, Geol. 7701, Mbio. 7701, and Zool. 7701. Transmission and scanning electron microscopy and x-ray analysis of biological and nonbiological materials; theory, operation, and application of instruments.

7702 Transmission Electron Microscopy Laboratory: Biological Materials (3) Prereq: credit or registration in Boty. 7701 or consent of instructor. 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 consent of instructor. 6 hrs. lab. Same as Mbio. 7703 and Zool. 7703. Preparation of biological specimens for scanning electron microscopy; use of the S-500 SEM.
7980 Research Seminar (1) Prereq: consent of department chairman. Reports and discussions on topics of current interest in botany.

7990 Problems and Research (3)

7995 Independent Study (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 8 sem. hrs. Offered on demand. Directed individual readings under the guidance of a graduate faculty member.

8000 Thesis Research (1-9 per sem.)

8900 Problems and Research (3-5) For doctoral students only.

9000 Dissertation Research (1-9 per sem.)

BUSINESS ADMINISTRATION*

Business Administration (BAdm)

0999 Career Planning and Placement (1) Suggested for second semester juniors. Step-by-step analysis for seeking employment; various phases of job hunting involved with planning a career, exploring strengths, planning and preparing resumes and related letters, using resumes, 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 within which private enterprise operates; orientation to modern collegiate business education.

3190 Business Policies and Problems (3) See Mgt. 3190.

7270 Seminar in New Developments in Business Administration (3)

*Courses administered by the College of Business Administration.

DEPARTMENT OF CHEMICAL ENGINEERING

CHAIRMAN: McLaughlin, Professor

PROFESSORS: Bryant, Callihan, Cordiner, Farmer, Groves, Harrison, Johnson, Murrill, Pike, Polack, Pressburg, Wilkins

ASSOCIATE PROFESSORS: Corripio, Sterling

ASSISTANT PROFESSORS: Frenklach, Price, Wetzel

Chemical Engineering (ChE)

2171 Chemical Engineering Fundamentals—Material and Energy Balances (3) Prereq: Math 1050 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) Prereq: Math 2065 and CSc 2260. Basic concepts and techniques used 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) Prereq: 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) Prereq: ChE 3172. Theory of vapor-liquid, liquid-liquid, and solid-liquid equilibrium, including the effects of chemical reactions; application of thermodynamic theory to the correlation of equilibrium data and the prediction of equilibrium compositions.

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) Prereq: ChE 2171 and Math 2065. Fundamentals of momentum transfer, with applications to the fluid problems of engineering.

4104 Engineering Measurements Laboratory (3) 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.

4152 Process Design (4) Prereq: ChE 4151. 3 hrs. lecture; 3 hrs. lab. Broad aspects of design: flow diagram, economic factors, planning and control of plant operations, safety, waste disposal, and similar topics.

4190 Chemical Reaction Engineering (3) Prereq: ChE 3173 and 4101, or consent of instructor. Basic principles of reactor design; selection of best design alternatives; achievement of optimum reactor operation.

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.

4261 Chemical Engineering Practice Laboratory (3) Prereq: ChE 4104 and credit or registration in ChE 4151; or consent of instructor. 1 1\(\frac{1}{2}\) hrs. lecture; 4 1\(\frac{1}{2}\) hrs. lab. Operation, control, and testing of full-scale chemical process equipment using raw sugar processing as a vehicle; special projects in collaboration with faculty members.

4262 Unit Operations Laboratory (3) Prereq: ChE 4104 and 4151. 1 1\(\frac{1}{2}\) hrs. lecture; 4 1\(\frac{1}{2}\) hrs. lab. Obtaining and interpreting data needed to solve typical problems in design or operation of chemical engineering equipment.

4264 Technology of the Sugar Industry (3)

4277 Foundations of Hybrid Computation (3) Prereq: FORTRAN programming equivalent to CSc 2260 and Math 2065 or equivalent. 2 hrs. lecture; 3 hrs. lab. Same as EE 4777. Theories and techniques necessary for effective use of hybrid computers in various engineering disciplines, including analog computer programming, real-time digital computer programming, and logic programming; application of these techniques on hybrid computation facilities.

4285 Principles of High Polymers (3) Solution and solid-state properties of high polymers; emphasis on microstructure of polymer chains and effect on macromolecular physical properties of the final plastics.

4291 Bioengineering (3) Chemical engineering fundamentals applied to understanding and solving problems in mammalian systems; emphasis on transport processes and mathematical modeling; problems dealing with control systems and thermodynamics.

4294 Ecosystems Analysis (3) Prereq: senior standing, Math 1052, and either CSc 1240 or 2260; or consent of instructor. Mathematical and physical basis for quantitative description of ecosystem dynamics; systems approach to analysis of bioenergetics in ecology; computer simulation techniques; dynamic ecological simulations applied to resource management.

4296 Development of Mathematical Models (3) Prereq: ChE 2176 and 4102, or consent of instructor. Mathematical descriptions of systems encountered in chemical engineering developed from basic principles; lumped parameter systems, distributed parameter systems, formulation of ordinary and partial differential equations, continuous and discrete analogs, and matrix formulations; models developed for systems ranging from simple elements to plant-scale.

4298 Process Dynamics (3) Prereq: Math 2065. Formulation, analysis, and study of problems in process dynamics and automatic control related to chemical and petroleum industries.

4299 Food Industries Engineering (3) See FdSc 4099.

7204 Technology of Petroleum Refining (3) Processes pertinent to petroleum refining; application of scientific and engineering methods in processes such as cracking, reforming, coking, alkylation, isomerization, and other refining operations.

7205 Technology of Petrochemical Industry (3) Processes required in the manufacture of petroleum-based chemicals; emphasis on chemical and chemical engineering aspects involved in production of hydrogen, alcohols, olefins, aromatics, aldehydes, ketones, acids, rubber, and polymers.

7221 Modern Control Theory (3) Recent developments in control theory applied to control schemes in industrial processes; techniques of state space analysis, nonlinear stability criteria, multivariable control, and system identification.

7222 Adaptive Control (3) Application of dynamic optimization techniques to control of industrial processes; maximum principle, dynamic programming, and their extensions.

7223 Heat Transfer—I, Conduction and Radiation (3) Theory of conduction and radiation heat transfer; analytical, analog, and numerical solutions to steady and unsteady, 1-, 2-, and 3-dimensional conduction problems in homogeneous and composite materials; radiation properties of real and ideal surfaces and fluids; solutions to typical radiation transfer problems.

7224 Heat Transfer—II, Convection and Design (3) Analysis of free and forced convection for flows in pipes and over arbitrary walls; coupling effects of convection, conduction, radiation, and chemical reactions; design techniques for heat exchangers, condensers, and reboilers.

7242 Administration of Engineering and Technical Personnel (3) See IE 7642.

7248 Fundamentals of Mass Transfer (3) Basic concepts governing transport of mass studied from physical principles, transport equations, and transport analogies; diffusional operations including evaluation of diffusivities for gaseous and liquid systems studied; analogies among momentum, heat, and mass transport derived: film, penetration, and surface renewal theories developed and applied to various binary and multicomponent stationary, flowing, and reacting liquid-liquid, liquid-solid, liquid-vapor, and solid-vapor systems.
7259 Chemical Engineering Thermodynamics (3) Thermodynamic properties, first and second laws of thermodynamics, entropy, Maxwell relations, and relationships 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 coefficients; chemical equilibrium and free energies.

7260 Chemical Reactor Design Methods (3) Basic principles of chemical kinetics, fluid flow, heat transfer, and mass transfer in design of chemical reactors; chemical equilibria, chemical kinetics, design of isothermal reactors, effects of non-ideal flow, non-isothermal reactors, and solid-gas catalytic reactions.

7265 Digital Control of Processes (3) Theory and practice of using digital computers for process control; various relationships between computer and process control schemes, control algorithms, value dynamics, modeling techniques, other current topics.

7266 Analysis of Chemical Engineering Process Data (3) Analysis of data obtained from chemical pilot plants and commercial process units; methods used to obtain maximum fundamental information from such data and relationships between actual performance of chemical process systems and that expected from governing chemical and physical laws.

7267 Optimization (3) Methods of optimization such as linear programming, dynamic programming, calculus of variations, optimum seeking methods, and the maximum principle, with application to systems of interest to chemical engineers.

7268 Distillation (3) Mathematical models and calculation procedures related to design and behavior of distillation columns; emphasis on computer techniques.

7275 Advanced Fluid Mechanics in Chemical Engineering (3) Equations of change for multicomponent systems developed and applied for study of laminar and turbulent flow, non-Newtonian flow, boundary layer flow, compressible flow, multiphase flow, and flow through porous media; other current topics.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

DEPARTMENT OF CHEMISTRY

CHAIRMAN: Kestner, Professor

BOYD PROFESSORS: McGlynn, Pryor, West

PROFESSORS: Baddley, Berg, Bhacca, Carpenter, Daly, Day, Fischer, Houk, Koenig, Mattice, Nauman, Newkome, Robinson, Runnels, Selbin, Sen, Traynham, Wharton, Williams

ASSOCIATE PROFESSORS: Burnett, Cartledge, Hales, Schwartz, Vidalurreta, Watkins

ASSISTANT PROFESSORS: Gandour, Skolnick

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. 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 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 midterm examination period.

Chemistry (Chem.)

1001 General Chemistry for Non-Science Majors (3) Prereq: ACT math score of at least 21 or credit in Math 0005 or equivalent. 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. Introduction to 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; introduction to organic chemistry and biochemistry; polymers, pollution, and pharmaceuticals.

1004 General Chemistry Laboratory (2) Prereq: credit or registration in Chem. 1002. 6 hrs. lab. Credit will not be given for both this course and Chem. 1212 or 1431. Breakage deposit. Selected experiments in fundamental and applied chemistry as well as biochemistry.

1201 Basic Chemistry (3) Prereq: ACT math 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. 1001 or 1421. For science/engineering cur-
ricula. Modern chemical theories 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. 1202 or 1422. 6 hrs. lab. Credit will not be given for both this course and Chem. 1004 or 1431. Breakage deposit. Basic laboratory operations including selected unit experiments and introductory inorganic qualitative analysis.

1421 Introductory Chemistry (3) Prereq: ACT math score of at least 27 or eligibility for Math 1050. 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 Introductory Chemistry (3) Prereq: Chem. 1421, or Chem. 1201 with consent of dean of the college. Generally, consent given to students with grade of “B” or better in Chem. 1201. Chemistry majors who qualify should take this course. Credit will not be given for both this course and Chem. 1002 or 1202. A continuation of Chem. 1421.

1431 Introductory Experimental Chemistry (2) 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. 1002, Chem. 1202. For chemistry majors and other well-prepared students with special interest in chemistry. Breakage deposit. Fundamental chemical operations, a selection of experiments, and elementary quantitative techniques.

1432 Introductory Analytical Chemistry (3) Prereq: Chem. 1431, or Chem. 1212 for chemistry majors, or credit or registration in Chem. 1421 with consent of the dean. 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 qualitative and quantitative 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 Quantitative Analysis (3) Prereq: Chem. 1202. Theory of gravimetric, titrimetric, and colorimetric chemical analysis.

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. 2 hrs. lecture; 1 hr. recitation. 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. 2 hrs. lecture; 1 hr. recitation. 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 Organic Chemistry Laboratory (2) Prereq: Chem. 2364; primarily for chemistry majors. Breakage deposit.

2464 Organic Chemistry Laboratory (2) Prereq: Chem. 2364. 6 hrs. lab. Breakage deposit. Organic preparations and qualitative organic analysis.

2900 Research Internship (1) Prereq: Chem. 1201 or 1431. 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.

3900 Chemical Problems (1-3) Prereq: Chem. 4492. May be repeated for credit for a maximum of 4 sem. hrs.; 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 and consent of the dean of the college. Introduction to chemical research methods.

4150 Environmental Chemistry (2) Prereq: one course each in quantitative analysis and organic chemistry. Also offered as EnvS 4101. Air and water environmental pollution.

4160 Industrial Organic Chemistry (3) Prereq: Chem. 2262. Leading types of organic synthesis considered as unit processes.

4491-4492 Physical Chemistry (3,3) Prereq: Math 1052; 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 (2) Phys. 1209 or 2109; Chem. 1212 or 1432; and credit or registration in Chem. 4492. 6 hrs. lab. Breakage deposit. Selected experiments in physical chemistry.

4551 Elemental Analysis by Instrumental Methods (3) 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.

4553 Experiments in the Instrumental Characterization of Organic Compounds (2) Prereq: credit or registration in Chem. 4552. 6 hrs. lab. Breakage deposit.

4561 Intermediate Physical-Organic Chemistry (3) 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) 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: Chem. 4492. Credit or registration in Chem. 4492. For advanced undergraduates and beginning graduate students. Principles in advanced inorganic chemistry; modern interpretations utilized.

4581, 4582 Introduction to Mathematical Chemistry (3,3) Prereq: Math 2057 and credit or registration in Chem. 4491. Mathematical methods of chemistry, with application to selected chemical problems.

4594 Introduction to Chemical Physics (3) Prereq: Chem. 4492 and Math 2057. Continuation of Chem. 4492.

4595 Physical Chemistry of Macromolecules (3) See BCH. 4595.

4596 Theoretical Chemistry (3) Prereq: Chem. 2262 and 4492. Advanced treatment of fundamental principles of physical chemistry.

7221 Chemical Kinetics and Mechanisms (2) Theory of chemical reaction rates and application of these rates in study of reaction mechanisms.

7251 Analytical Spectroscopy (2) Modern analytical spectroscopic methods, including atomic absorption; electron microscopy; nuclear science and emission; ESR; and infrared, ultraviolet, and X-ray spectroscopy.

7252 Nonspectroscopic Analytical Chemistry (2) Nonspectroscopic analytical chemistry including electrochemistry, thermal analysis, chromatography, coordination chemistry, organic reagents, and catalyzed and induced reactions.

7261 Polymerization and Polycondensation Processes (4) See ChE 7280.

7271 Inorganic Chemistry of Nontransitional Elements (2) Prereq: Chem. 4570 or equivalent. Chemistry of nontransitional elements including selected nonmetal chemistries (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) 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) 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) 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, 7293, 7294 Special Topics in Chemical Physics (2,2,2) Rigorous treatment of 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; one topic scheduled each semester; current topics include interpretation of spectra, nuclear science, separation techniques, electrochemistry, and nuclear magnetic resonance spectroscopy.

7760 Special Topics in Organic Chemistry (2) May be taken 6 times for credit. Specialized areas of current interest in organic chemistry; one topic scheduled each semester; current topics include free radicals, organometallic compounds, polymers, carbonium ions, heterocyclic compounds, organic syntheses and natural products, and molecular orbital treatment of organic molecules.

7770 Special Topics in Inorganic Chemistry (2) May be taken 6 times for credit. Advanced treatment of areas of current interest in modern inorganic chemistry; one topic scheduled each semester; current topics include coordination chemistry, structural chemistry and stereochemistry, ligand field theory, nonaqueous solvent chemistry, organometallic chemistry, and transition and inner transition elements.

7800 Seminar (1) May be taken 6 times for credit. Pass-fail grading. All graduate students are expected to participate in report and discussion group in field of chemistry of their particular interest.

8000 Thesis Research (1-9 per sem.) Students who receive 6 hrs. of credit for this course cannot obtain more than 9 hrs. of credit for Chem. 8900.

8900 Procedures and Problems in Chemical Research (1-12) Open only to students of proven ability or exceptional potential. Students who receive 6 hrs. of credit for Chem. 8000 cannot obtain more than 9 hrs. of credit for this course. Pass-fail grading. Experimental research methods, design and execution of experiments, and analysis and correlation of experimental data.

9000 Dissertation Research (1-9 per sem.) Prereq: 6 hrs. of credit in Chem. 8000 or 8900.

CHINESE

(See Department of Foreign Languages, page 281.)
DEPARTMENT OF CIVIL ENGINEERING

CHAIRMAN: Arman, Professor
ALUMNI PROFESSOR: Covington
PROFESSORS: Carver, Chubbuck, Dantin, Dart, Kazmann, McKee, Thomis, Turner
ASSOCIATE PROFESSORS: Alawady, Ferguson, Manning, Poplin, Suhayda, Tumay
ASSISTANT PROFESSORS: Buckner, Gopu, Harris, Malone, Tittlebaum
INSTRUCTORS: Gipson, Kelly, Vaughn

In the Department of Civil Engineering one hour of credit is allowed for three hours of laboratory work.

Civil Engineering (CE)

CONSTRUCTION

2081 Structural Technology—I (3) Prereq: Math 1022. Not open to students majoring in civil engineering. Basic principles of statics and strength of materials as applied to building frames and formwork; both wood and steel beams designed using standard handbook tables.

3082 Structural Technology—II (3) Prereq: CE 2081. Not open to students majoring in civil engineering. Design of continuous beams and beam columns; design of bolted and welded connections.

SANITARY

4100 Sanitary Engineering—I (3) Prereq: CE 2200. 2 hrs. lecture; 3 hrs. lab. Formerly CE 4156. Ground and surface sources of qualitative requirements for—and quantitative demand for—potable water, including domestic, fire, and industrial use; physical and chemical principles of storage, treatment, and distribution systems.

4110 Sanitary Engineering—II (3) Prereq: CE 2200. 2 hrs. lecture; 3 hrs. lab. Formerly CE 4155. Physical and chemical principles involved in the design of collection, treatment, and disposal systems for domestic, industrial, and storm wastes.

4120 Sanitary Engineering—III (3) Prereq: CE 4100 or 4110. Formerly CE 4320. Sources, nature, and control of gaseous and particulate air pollutants; solid waste management practices including collection, recycling, and ultimate disposal.

4130 Water Quality Analysis (3) 1 hr. lecture; 6 hrs. lab. Formerly CE 4380. 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.


7110 Operations and Processes in Sanitary Engineering—II (3) Prereq: CE 4100 and 4110; or equivalent undergraduate preparation. Theory and design of water and wastewater treatment processes.

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.

FLUIDS (Hydraulics)

2200 Fluid Mechanics (3) Prereq: CE 2450. Same as ME 2833. Formerly HyE 2062. Statics and dynamics of compressible and incompressible fluids; energy and momentum principles; dimensional analysis; laminar and turbulent flow; elements of potential flow.

2250 Hydraulic Laboratory (1) Prereq: credit or registration in CE 2200. 3 hrs. lab. Formerly HyE 2064.


4200 Hydrology (3) Prereq: CE 2200 or Math 1052. Formerly HyE 4165. 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: Math 1052 or CE 2200. Formerly HyE 4167. Occurrence of ground water; properties and classification of water-bearing formations; 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.

7200 Free Surface Flow (3) Prereq: CE 2200. Formerly HyE 7203. 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. Formerly HyE 7206. Transportation of sediment, mixing current, and other phenomena.

7260 Advanced Hydrology (3) Prereq: CE 4200 or 4250 or consent of instructor. Formerly HyE 7280. 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.

GEOTECHNICAL

3300 Geotechnical Engineering—I (3) Prereq: CE 2200 and 3400. 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 and testing methods to 
determine those properties; subjects treated include gradation, 
specific gravity, Atterberg limits, unconfined compression, 
triaxial shear, direct shear, vane shear, and one-
dimensional consolidation.

4300 Geotechnical Engineering—II (3)  
Prereq: CE 3300, 3350, and 4410. Formerly CE 4484. Fundamentals 
of geotechnics applied to design and analysis of soil-
structure systems; design and analysis of shallow and deep 
foundations, excavations, retaining structures, and earth 
dams; special problems of stabilization, soft-earth con-
struction and vibration; emphasis on computer utilization.

7300 Advanced Geotechnical Engineering—I (3)  
Prereq: CE 3300 and 3350. Formerly CE 7207. Seepage, 
consolidation, compaction, and shear strength of soils; 
stress distribution and displacements in soil masses; prin-
ciples of soil mechanics applied to design problems.

7310 Advanced Geotechnical Engineering—II (3)  
Prereq: CE 3420 and 7300. Formerly CE 7208. Continuation 
of CE 7300.

7320 Advanced Design and Analysis of Foundations 
(3) Formerly CE 7209. Soils as an engineering material; 
geotechnics applied to advanced foundation design; design 
and analysis of various types of foundations, retaining 
walls, bridge abutments, coffer damps, earth damps, and 
other pertinent soil structures.

7330 Geotechnical Engineering Seminar (3)  
Prereq: CE 7310 or consent of instructor. Formerly CE 7410. 
Geotechnical problems requiring extensive literature re-
search and discussion on testing, theoretical analysis, and 
decision-making processes in geotechnical work; engi-
neering geology, geophysical techniques, remote sensing, 
sampling and sample disturbances, in situ testing and data 
analysis, triaxial and plain strain shear properties of 
organic soils; methods of settlement analysis, treatment of 
soft soils, reinforced earth, etc.

7340 Theory and Practice of Geotechnical Experi-
ments (3) Prereq: CE 3300, 3350, and 4300, or equiva-
\nts. 2 hrs. lecture; 3 hrs. lab. Formerly CE 7411. 
Theory and practice of laboratory and in situ experimental 
techniques in geotechnical engineering.

STRUCTURES

2400 Statics (3) Prereq: Math 1012 or 1022 or 1023. For students 
not majoring in engineering. Formerly CE 2051. 
Resultants and equilibrium of force systems; equilibrium 
of beams, trusses, and frames; friction, centroids.

2405 Mechanics of Materials (3) Prereq: CE 2400. For students 
not majoring in engineering. Formerly CE 2075. 
Stress and strain, bending, torsion, deflections of beams, 
columns.

2450 Statics (3) Prereq: Math 1052. Formerly CE 2152. Vectorial 
treatment of resultants and equilibrium 
of force systems, centroids and centers of gravity, fluid 
statics, friction.

3400 Mechanics of Materials (3) Prereq: CE 2450 
and Math 1052. Credit will not be given for both this course and CE 3405. Formerly CE 3293. Stress and 
strain, torsion, bending, deflections of beams, col-
umns, statically indeterminate problems, combined 
stress.

3405 Mechanics of Materials (4) Prereq: CE 2450 
and Math 1052. Credit will not be given for both this course and CE 3400. Formerly CE 3295. Stress and 
strain, torsion, bending, deflections of beams, col-
umns, statically indeterminate problems, combined 
stress.

3410 Mechanics of Materials Laboratory (1)  
Prereq: credit (preferably) or registration in CE 3400 or 3405. 2 hrs. lecture/demonstration/lab. Formerly CE 3296. Mechanical properties and strengths of engineer-
ing materials and structural and machine elements.

3415 Structural Analysis—I (3) Prereq: credit or 
registration in CE 3400. Formerly CE 3103. Analysis 
of statically determinate structures including beams, 
frames, trusses, and arches for the effects of dead, live, 
moving, and wind loads.

3420 Structural Analysis—II (3) Prereq: CE 3400. 
Formerly CE 3111. Analysis of statically indetermi-
nate structures by methods of consistent deformations, 
elastic energy, virtual work, slope of deflections, and 
moment distribution.

3440 Senior Design Project (3) Prereq: senior stand-
ing and consent of instructor. Formerly CE 3790. 
Comprehensive design of a component, system, or 
process; project chosen in consultation with depart-
ment head; written report—including rationale, design 
computations, and drawings—required.

4400 Principles of Steel Design (3) Prereq: credit or 
registration in CE 3420. Formerly CE 4104. 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. Formerly CE 4115. 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 and Struc-
tural Design of Foundations (3) Prereq: CE 3300, 
3350, and 4410. Formerly CE 4750. Principles in 
design and analysis of statically determinate pre-
stressed beams as based on the latest code require-
ments; decision-making and structural design of prac-
tical foundation problems such as shallow and deep 
footings and earth retaining structures.

4430 Structural Engineering (3) Prereq: CE 4400 
and credit or registration in CE 3420 and 4410. 2 hrs. 
lecture; 3 hrs. lab. Formerly CE 4119. Fundamental 
principles applied to planning, analysis, and design of 
structures in steel, concrete, and wood; introduction to 
structural analysis by computer programming.

4440 Advanced Mechanics of Materials (3) Prereq: 
CE 3400 or 3405. Formerly CE 4279. Mechanics of 
materials; emphasis on needs of students interested in 
structural and machine design.
4450 Finite Element Methods (3) Prereq: a course in FORTRAN programming. Formerly CE 4528. 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, and solutions of physical problems by using existing finite element computer programs.

4460 Introduction to Continuum Mechanics (3) Prereq: CE 3400 or 3405 or consent of instructor. Formerly CE 4395. 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.

7400 Statically Indeterminate Structures (3) Prereq: CE 3420 or equivalent. Formerly CE 7205. Analysis of statically indeterminate structures by classical and modern methods.

7405 Statically Indeterminate Structures (3) Prereq: CE 7400. Formerly CE 7206. Analysis of statically indeterminate structures, nonprismatic members, continuous girders and trusses, multistory and irregular frames, arches, translational moment distribution, and secondary stresses in trusses.

7409 Advanced Concrete Theory (3) Formerly CE 7249. 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. Formerly CE 7251. 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. Formerly CE 7212. Sources, intensities, and methods of transmission of dynamic loads; response of structural systems to dynamic loading; modern computation techniques.

7440 Applied Elasticity (3) Prereq: Math 4016 or ME 4563; and CE 3400 or 3405. Offered on demand. May be taken twice for credit. Formerly CE 7815. 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. Offered on demand. Formerly CE 7119. 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. Offered on demand. Formerly CE 7528. 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. Offered on demand. Formerly CE 7226. 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) Formerly CE 7250. 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. Formerly CE 7235. 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. Offered on demand. Formerly CE 7225. 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.

SURVEYING

1510 Elementary Surveying and Measurements (3) Prereq: eligibility for Math 1050 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.

2500 Elementary Surveying (2) Primarily for those desiring a terminal course in elementary surveying. Formerly CE 2061. Theory, use, and application of tape, level, and transit.

2510 Elementary Surveying Laboratory (1) 3 hrs. lab. Primarily for those desiring a terminal course in elementary surveying. Formerly CE 2065. To accompany CE 2500.

2520 Advanced Surveying (3) Prereq: CE 1510 and 1550; or CE 2500 and 2510. 2 hrs. lecture; 3 hrs. lab. Formerly CE 2064. Elementary geodetic surveying, state coordinate systems, celestial observations, theory and practice of route geometrics including simple, compound, spiral, and vertical curves and earthwork.

4500 Geodetic and Photogrammetric Surveying (3) Prereq: CE 2520. 2 hrs. lecture; 3 hrs. lab. Formerly CE 4189. Geodetic surveying for control surveys, photogrammetry, and photointerpretation; calculation and field procedures used in ground control surveys; official state coordinate system.

4550 Principles of Land Surveying (3) Prereq: CE 2520 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Formerly CE 7528. Formerly CE 7528. 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.
merly CE 4566. Procedures and laws governing surveying of boundaries.

4560 Engineering Applications of Remote Sensing (3) 
Prereq: consent of instructor. 2 hrs. lecture; 3 hrs. lab. 
Formerly CE 4341. 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.

TRANSPORTATION

3600 Principles of Highway and Traffic Engineering (3) 
Prereq: CE 2520. Formerly CE 3160. Basic traffic characteristics, highway capacity analysis, geometric design of highways, traffic operations, pavement design; other modes of transportation, especially bus transit systems.

4600 Advanced Highway and Traffic Engineering Design (3) 
Prereq: CE 3600. 2 hrs. lecture; 3 hrs. lab. 
Formerly CE 4161. Traffic engineering studies of intersection, arterial street, and freeway operations; designs for 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. Formerly CE 4162. Elementary concepts in the transportation planning process; prediction of future transportation demands, mathematical modeling, and computer applications.

4620 Transportation Engineering (3) 
Prereq: CE 3600. Formerly CE 4163. 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.

7600 Highway Traffic Characteristics and Studies (3) 
Formerly CE 7213. Fundamental nature of highway traffic and methods of measuring traffic characteristics; students perform and analyze limited-scope field studies; characteristics include those of drivers, vehicles, traffic volume, speed, traffic stream, intersection operation, accidents, parking, and urban travel.

7610 Traffic Engineering Operation and Control (3) 
Prereq: CE 7600 or consent of instructor. Formerly CE 7214. Traffic regulations, operational problems, and engineering organization; theory and practice of application, design, operation, and maintenance of traffic control devices; methods and devices studied include signing, markings, delineation and illumination, signals and signal systems, one-way street and unbalanced-flow street operations, speed zoning, and freeway monitoring and control.

7620 Geometric Design of Highways (3) 
Formerly CE 7218. Principles of design and practice for both rural and urban highway facilities; design criteria and controls, capacity analysis, cross-section selection, design of horizontal and vertical alignment, intersections and interchanges, and drainage considerations.

7630 Planning and Design of Urban Street Systems (3) 
Prereq: CE 7620 or consent of instructor. Formerly CE 7220. Actual design problems in highway location and alignment, intersections and interchanges, urban street systems, freeway and overall systems design balance, interchange spacing, economics analysis, and highway-needs studies.

7640 Urban Transportation Planning (3) 
Prereq: consent of instructor. Formerly CE 7217. Urban transportation planning; computer applications and application of Critical Path Programming (CPM).

7660 Urban Transportation Planning Models (3) 
Prereq: CE 7640 or consent of instructor. Formerly CE 7219. Development and application of trip distribution models, trip generation models, modal choice models, and traffic assignment models; application of digital computers in problem solving.

7670 Pavement Design (3) 
Formerly CE 7216. Theory and practice of both flexible and rigid pavement design procedures; attention to subgrade, base, and surfacing characteristics; loads; stresses in pavement systems; effects of natural forces; and construction practices.

GENERAL

3700 Engineering Materials Laboratory (1) 
Prereq: credit or registration in CE 3400. 3 hrs. lab. Formerly CE 3173. Design and properties of concrete and bituminous mixes.

4700 The Analysis and Design of Civil Engineering Systems (3) 
Prereq: Engr. 2060, Math 2057, and senior standing. Formerly CE 4190. Use of digital computer techniques in analysis and design of civil engineering systems.

4760 Civil Engineering Design (3) 
2 hrs. lecture; 3 hrs. lab. Formerly CE 4615. Design of civil engineering facilities; feasibility studies for subdivisions, airports, shopping centers, interchanges; other pertinent topics.

7700, 7701 Special Topics in Civil Engineering (3,3) 
Prereq: consent of instructor. Offered on demand. Each course may be taken twice for credit. Formerly CE 7290, 7291. Specialized civil engineering areas such as mechanics of organic soils, optimization of nonlinear civil engineering systems, traffic simulation and highway systems analysis, plastic design of multistory frames, etc., latest research developments.

7720 Numerical and Matrix Methods in Civil Engineering (3) 
Offered on demand. Formerly CE 7211. Application of numerical and matrix methods to structures, soil mechanics, transportation, water resources, and other civil engineering areas: matrix analysis of differential equations; eigenvalues, eigenvectors, and canonical forms; use of finite differences; high-speed computational techniques.

7730 Dimensional Analysis and Theory of Models (3) 
Offered on demand. Formerly CE 7102. Dimensional analysis in the solution of engineering problems; application to design and interpretation of models in the fields of structures, machines, and fluid mechanics.

7740 Master's Report (3) 
Formerly CE 7799. Student prepares comprehensive report on subject approved by the major professor, distributes copies to his or her committee, and defends the report in an oral examination.

7750 Seminar (1) 
All graduate students are expected to enroll in this course every semester. Only one semester
hour of credit will be allowed toward degree. Pass-fail grading. Formerly CE 7901.

8000 Thesis Research (1-9 per sem.)

8001 Thesis Research in Hydraulic Engineering (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

ARCHITECTURE

3981 Architectural Structures—I (3) See Arch. 3175.

3982 Architectural Structures—II (3) See Arch. 3176.


3984 Introduction to Geotechnical Engineering (3) Prereq: CE 2405. Not open to students majoring in civil engineering. Formerly CE 3109. Properties and behavior of soils as applied to architectural structures.

CLASSICAL LANGUAGES

(See Department of Foreign Languages, page 280.)

DEPARTMENT OF COMPUTER SCIENCE

CHAIRMAN: Rudd, Associate Professor
ASSOCIATE PROFESSORS: Jones, Kraft, Tyler
ASSISTANT PROFESSORS: Buell, Lee, Waller
INSTRUCTORS: Chiarulli, Hanchey, Mims, Stubblefield, Taylor

Computer Science (CSc)

1240 FORTRAN Programming (3) Prereq: credit in Math 1011 or 1021 or sufficiently high score on the mathematics placement examination to qualify for Math 1022 or 1031. Not normally open to students with registration or credit in Math 1050. Credit will be given for only one of the following: CSc 1240, 1241, 2260, 2262, or Engr. 2060. For students in disciplines other than engineering and the physical sciences. Introduction to computer programming; examples and exercises from the business area.

1241 FORTRAN Programming (3) Prereq: credit or registration in Math 1050. Credit will be given for only one of the following courses: CSc 1240, 1241, 2260, 2262, or Engr. 2060. Introductory course in digital computer programming using an algebraically oriented language.

1251 Program Structure and Algorithm Design (3) Prereq: credit in a programming language course and credit or registration in Math 1021. Fundamentals of program structure and algorithm design using PL/I and PL/C; machine organization, list and string processing, numerical methods, and compiler construction.

1270 Introduction to COBOL Programming (3) Prereq: Math 1011 or 1021 or sufficiently high score on the mathematics placement examination to qualify for Math 1022 or 1031. Credit will not be given for both this course and CSc 3371. Not normally open to students with credit in a programming course. COBOL programming language and its use in implementing business operations in digital computer systems; typical tape-oriented and disk-oriented data processing systems used in business.

2252 Assembly Language Programming (3) Prereq: credit or registration in CSc 1251, or equivalent background. Fundamentals of machine function; basic concepts of programming at the machine level; assembly language; topics include machine representation of information, machine language, addressing techniques, program linkage, macroprogramming, and assembler construction.

2259 Introduction to Discrete Structures (3) Prereq: Math 2085 or 2090. Set algebra including mappings and relations; algebraic structures including semigroups and groups; elements of the theory of directed and undirected graphs; Boolean algebra and propositional logic; these structures applied to various areas of computer science.

2260 Introduction to the Use of Computers (1) Prereq: Math 1050. Credit will be given for only one of the following: CSc 1240, 1241, 2260, 2262, or Engr. 2060. Basic principles of digital programming in symbolic languages; application of electronic computers to typical scientific problems.

2262 FORTRAN IV and Numerical Methods (3) Prereq: Math 1052. Not open to students with credit or registration in a course in FORTRAN. Credit will be given for only one of the following: CSc 1240, 1241, 2260, 2262, or Engr. 2060; credit will not be given for both this course and CSc 2263. FORTRAN IV programming and its application to numerical problems encountered in science and engineering; elements of FORTRAN IV programming, solution of simultaneous linear algebraic equations, solution of nonlinear algebraic equations (root-solving), numerical differentiation and integration, and numerical solution of ordinary differential equations.

2263 Numerical Methods in FORTRAN (3) Prereq: Math 2085 or 2090, and knowledge of FORTRAN. Credit will not be given for both this course and CSc 2262. Application of computer-oriented methods to solution of numerical problems in science and engineering; students obtain numerical answers via the computer to problems formulated by considering a physical system common to many areas of science and engineering.

2280 Computer Organization (3) Prereq: credit or registration in CSc 2252. 2 hrs. lecture; 3 hrs. lab. Basic digital circuits; Boolean algebra and combinatorial 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, multiprocessing, and real-time systems; other advanced topics and alternate organizations.

3371 COBOL Programming and Business Data Processing Systems (3) Prereq: credit in a course in computing. Credit will not be given for both this course and CSE 1270. Intended primarily for students in computer science and related disciplines. COBOL programming; its use in business data processing systems.

3999 Independent Undergraduate Research (1-3) Prereq: specific consent of department chairman. May be repeated for credit for a maximum of 4 sem. hrs. Individual reading, conference, and program development in the area of computer science.

4100 Introduction to Operating Systems and File Management (3) Prereq: CSE 2252. Advanced assembler programming, including macros and access methods; job control language; supervisor functions; loader and link editor functions; file and memory management; multiprogramming and time-sharing systems.

4101 Programming Languages (3) Prereq: CSE 4102. Formal definition of programming languages including specification of syntax and semantics; simple statements including precedence, infix, prefix, and postfix notation; global properties of algorithmic languages including scope of declarations, storage allocation, grouping of statements, binding time of constituents, subroutines, coroutines, and tasks; list processing, string manipulation, data description, and simulation languages; run-time representation of program and data structures.

4102 Data Structures (3) Prereq: CSE 2252. Basic concepts of data; linear lists, strings, arrays, and orthogonal lists; representation of trees and graphs; storage systems and structures, and storage allocation and collection; multi linked structures; symbol tables and searching techniques; sorting (ordering) techniques; formal specification of data structures, data structures in programming languages, and generalized data management systems.

4103 Operating Systems (3) Prereq: CSE 4102. Detailed treatment of the various types of programs required to maintain and/or enhance the software usage of information processing systems.

4304 Systems Programming (3) Prereq: CSE 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 1052. Also offered as EE 4710. Theoretical and practical factors in computer interaction considered via various modes of communication; communication codes, error effects, interfaces, networks, equipment, and typical current and advanced applications.

4321 Minicomputers (3) Prereq: CSE 1240 or equivalent. 2 hrs. lecture; 3 hrs. lab. Characteristics of small computing systems used primarily for laboratory automation, data communications, data acquisition and control; emphasis on hardware, software, and interfacing of minicomputers; survey of applications.

4351 Compiler Construction (3) Prereq: CSE 4102 or equivalent. 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: CSE 2259. Elementary number systems and codes, switching algebra, combinational circuit minimization, sequential machines, finite automata, equivalence of states and machines, reduced machines, and other topics.

4362 Advanced Numerical Methods and FORTRAN (3) Prereq: CSE 2263 or equivalent. Problem solving by digital computer; use of numerical methods and differential equations; testing and automation of methods on the digital computer; and problems programmed in FORTRAN.

4365 System Representation and Basic Cybernetics (3) Prereq: Math 2085 or 2090. System representation and cybernetics studied from both the transfer function and state space points of view; emphasis on computational aspects of resulting equations.

4368 Computational Techniques in Linear Programming (3) Prereq: CSE 1240 or 1241; Math 2085 or 2090; and IE 4510, QM 4020, or equivalent. Analyzes techniques for solving linear programs on the digital computer; topics include the simplex method, inversion techniques, pricing and pivot selections, separable programming, generalized upper bounding, integer programming, and decomposition techniques.

4444 Artificial Intelligence and Pattern Recognition (3) Prereq: credit in a programming language course and in a course that includes probability or statistics. Fundamentals of artificial intelligence including the areas of problem solving, game playing, and theorem proving; pattern recognition topics include Bayes decision theory, parameter estimation, supervised learning, nonparametric techniques, clustering, and scene analysis.

4890 Introduction to Theory of Computing (3) Prereq: CSE 2259 or equivalent. The notion of an algorithm; primitive recursive and partial recursive functions; turing machines and other models of computation; Markov algorithms; introduction to complexity of algorithms; Church's thesis, Godel numbering, and unsolvability results; halting problem; post correspondence problem; recursive and recursively enumerable sets; concepts from formal language theory.

4999 Selected Topics in Computer Science (3) Prereq: consent of department. May be taken three times for credit.
7001 Computing Principles—I (3) Prereq: 6 hrs. of math beyond Math 1052. Concepts and techniques necessary for construction of large-scale software systems; computer organization, data structures, sorting and searching algorithms, and programming language characteristics and fundamentals.

7002 Computing Principles—II (3) Prereq: CSc 7001 or equivalent. Language processing techniques and operating system fundamentals including the design and construction of assemblers, interpreters, and compilers; design concepts, construction, and evaluation of general purpose operating systems; software engineering concepts.

7030 Computer-Based Information Systems Analysis (3) Prereq: CSc 4102. Analysis and logical design of computer and information systems; the systems approach and use of information for management decision making; information systems analysis techniques; analysis of computer systems and of interaction between computer components through use of models.

7080 Computer Organization (3) Prereq: CSc 2280. Background in electronics not required. Functional organization of modern digital computers described through precise computer design language (CDL); detailed description of arithmetic, memory, and control units; fixed and microprogrammed systems.

7090 Systems Science Design Project (1-9) Prereq: consent of department chairman. Individual design, development, and documentation of a computer program package applying systems techniques to a problem in the student’s specialization field.

7200 Theory of Computing (3) Prereq: CSc 7002 or equivalent. Formal aspects of computer science; practical applications of abstract machines and computational procedures; automata, formal languages, algorithm design and analysis.

DEPARTMENT OF CONSTRUCTION

CHAIRMAN: Covington, Alumni Professor

PROFESSIONAL Faculty: McKee

ASSOCIATE PROFESSORS: Adler, Householder, Nethken

ASSISTANT PROFESSORS: Mouton, Rutland

In this department one hour of credit is allowed for three hours of laboratory work.

Construction (Cons.)

1011 Materials and Methods of Residential and Light Commercial Construction (3) See InEd 1011.

1511 Introduction to Building Construction (1) History of and current trends in construction industry; elements involved in construction; types of construction; role of and educational requirements for management in construction.

1583 Construction Graphics (2) 6 hrs. lab. Construction drawing and other graphic communication techniques.

2024 Welding Technology (3) See InEd 2024.

3083 Design of Structures for Construction (3) Prereq: CE 3082. Practical design of formwork and cost analysis of comparable form systems; design of shoring, bracing, and temporary structures.

3091 Systems for Construction Management (3) Systems approach to solving complex construction problems; latest mathematical and nonmathematical methods presented and 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 and decision making in soils 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. 1004 or 2002. Type, design, installation, and performance of mechanical equipment used in buildings, including plumbing and air conditioning.

3561-3562 Quantity Surveying, Estimating, and Bidding—I, II (4, 4) Prereq: Cons. 3353, 3354. Cons. 3351 is a prerequisite for Cons. 3352. 2 hrs. lecture; 6 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.

3573 Materials, Methods, and Equipment—I (3) Prereq: InEd 2040. 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. 3353. Continuation of Cons. 3353, with emphasis on both heavy and industrial equipment.

3579 Electrical Installations (3) Prereq: Phys. 1004 or

DEPARTMENT OF CRIMINAL JUSTICE

HEAD: Parker, Associate Professor
ASSISTANT PROFESSORS: Fleming, Weirman, Winfree

Criminal Justice (CJ)

1107 Introduction to Law Enforcement (3) Historical and philosophical background of law enforcement; its organizations, agencies, and processes; development of modern police practices; role of law enforcement in a democratic society.

1108 Legal Bibliography for Law Enforcement (1) Source and reference publications in the legal field pertinent to law enforcement and the administration of justice, including statutory systems, legal codes, and pertinent court decisions; methods of locating legal and other information in the field of criminal justice.

1110 Traffic Administration (3) Laws, regulations (Federal and state), and recommended procedures involved in traffic administration and safety; special problems in the field of traffic, and their correlation with the entire spectrum of law enforcement; the Louisiana motor vehicle and its relationship to national legislation.

1196 Practicum—Law Enforcement Training (1-10) Students may be allowed the following credit for successful completion of courses in the LSU Law Enforcement Training Program:

LSU Law Enforcement Institute ............ 10 sem. hr.
LSU Juvenile Officers Institute ............ 10 sem. hr.
LSU Basic Training Academy .............. 5 sem. hr.
Approved workshops and schools in law enforcement, at ratio of one sem. hr. for each 40 hrs. of instruction (for students who have earned at least 12 sem. hrs. in the LSU System) ......... 1-8 sem. hr.
Up to 5 sem. hrs. may be accepted for police training in approved non-LSU basic programs, provided at least 3 sem. hrs. have been earned in the LSU Law Enforcement Training Program. A maximum of 10 sem. hrs. is allowed in this course or in combination with CJ 3197. Credit will not be given for both this course and CJ 3198.

2115 Corporate Intelligence Management (3) Corporate intelligence needs, crime prevention, management protection in the nonpublic sector.

2151 Applied Criminology (3) Law enforcement investigations; interrogations, interviews, confessions, use of written notes and statements, case preparations, trial preparation and procedures; police and the community; problems of minority groups, political pressures, and cultural problems.

2152 Public and Community Relations (3) Law enforcement's involvement with citizens—individuals and groups; factors contributing to friction or cooperation between police and the community; problems of minority groups, political pressures, and cultural problems.

2153 Criminal and Related Law (3) Structure, definitions, elements, and interpretations of the most frequently used sections of the criminal codes and criminal statutes, state and Federal.

2209 Introduction to Corrections (3) Historical and philosophical background of professional corrections: modern development and relationship with other facets of criminal justice.

2212 Probation and Parole (3) Theory and practice of probation and parole as a function of the criminal justice system.

3101 Rules of Evidence and Procedure (3) Principles and applications of criminal law of evidence and procedure.
3130 Criminalistics (3) Scientific aspects of law enforcement: role and functions of the crime laboratory.

3131 Police Administration (3) The organization, structure, and administrative functions of law enforcement agencies.

3170 Proseminar in Law Enforcement (1) Prereq: 10 sem. hrs. credit in criminal justice courses. Principles, practices, and procedures; visits to operating police organizations or other related assignments.

3171 Proseminar in Law Enforcement Procedures (1) Prereq: 10 sem. hrs. credit in criminal justice courses. Study of pertinent areas of law enforcement from text sources and police in-service practices or other related assignments.

3172 Proseminar in Law Enforcement Operations (2) Prereq: 15 sem. hrs. credit in criminal justice courses. Supervised research of principles, practices, and procedures of law enforcement, including on-site studies.

3173 Proseminar in Organization of Law Enforcement Agencies (1) Prereq: 15 sem. hrs. credit in criminal justice courses. Organization and operation of law enforcement agencies; their role in criminal justice.

3197 Practicum—In-Service Law Enforcement Field Work (1-8) Prereq: 26 hrs. credit in criminal justice courses. Pass-fail grading. Students who are in-service police officers and who have earned maximum credit through institutes, academies, or workshops may be entitled to a maximum of 8 sem. hrs. of credit for working in a publicly funded law enforcement agency under an approved, supervised, and evaluated program (at a ratio of 60 hrs. service per sem. hr. of credit). No student will be permitted to receive more than 10 sem. hrs. of credit for this course and/or in combination with CJ 1196. Credit will not be given for both this course and CJ 3198.

3198 Practicum—Internship (5-8) Prereq: 26 sem. hrs. credit in criminal justice courses. 60 hrs. supervised service per sem. hr. of credit. May be taken on part-time or full-time basis. Credit will not be given for both this course and CJ 3196 or 3197. Pass-fail grading. For students not currently employed in law enforcement. Supervised field training with student enrolled in law enforcement agency; written evaluation of the agency's work required.

5200 Survey of Criminal Justice (3) Law enforcement, the judiciary, and corrections as components of the criminal justice system.

5201 Criminal Justice Administration (3) Administrative structures and functions of criminal justice organizations; the interrelationships of police, corrections, courts, and juvenile organizational systems and the administrative concerns of each.

5202 Legal Aspects of Criminal Justice (3) Prereq: CJ 2153 or equivalent. Judicial decision-making in constitutional issues of criminal procedure; extra-legal factors influencing the Supreme Court and the judicial process.

5203 Criminal Justice Information Systems (3) Current and projected information systems; methods of data collection, usage, storage, and retrieval; information systems utilized by law enforcement agencies and the legal, practical, and moral implications of their use.

5204 Criminal Justice Research Methodology (3) Research methods in criminal justice; logic of research, research design, sampling, data collection techniques, and analysis.

5300 Special Problems of Delinquency (3) Problems related to causation and prevention of delinquent careers.

5400 Special Problems of Police Administration (3) Major problems of modern police administration.

DEPARTMENT OF CURRICULUM AND INSTRUCTION

CHAIRMAN: Neidig, Professor

PROFESSORS: Cookston, Kilgore, Schmidt, Soderbergh, Strawitz, Thurston


ASSISTANT PROFESSORS: M. Cheek, Cox, Hammons

Curriculum and Instruction (EDCI)

0001 Reading Skills Enhancement (4) For students whose diagnostic tests indicate the need for intensive work in improving reading skills. For students in Special Services Programs only. Pass-fail credit grading. Not for degree credit. Improvement of vocabulary, word recognition, comprehension, and functional reading skills.

2025 Foundations and Principles of Teaching in the Elementary School (3) 2 hrs. lecture; 2 hrs. field experience. Open only to students who are actually enrolled in programs leading to teacher certification.

2620 Practicum in Business and Office Education (2) One-hour weekly conference with instructor to discuss problems 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 conference with instructor to discuss problems relative to student's job. Student works at least 10 hrs. per week in a selling position in an approved retail selling establishment.

3040 Principles and Practices in Secondary Education (3) Prereq: completion of EDAF 2000 and Psyc. 2060; credit or registration in Psyc. 2078; and completion of all courses included in the freshman and sophomore years of the student's major field.

3112 Reading Instruction in the Elementary School (6) Prereq: credit or registration in EDCI 2025. 3 hrs. lecture; 6 hrs. lab. Current instructional materials and methods in teaching reading at the elementary school level; demonstration of 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.

3125 Materials and Methods in Elementary School Science (3) Prereq: EDCI 2025 or equivalent; 2 hrs. lecture; 2 hrs. lab.

3126 Materials and Methods in Elementary School Mathematics (3) Prereq: EDCI 2025 or equivalent. 2 hrs. lecture; 2 hrs. lab.

3127 Materials and Methods in Elementary School Social Studies (3) Prereq: EDCI 2025 or equivalent. 2 hrs. lecture; 2 hrs. lab.

3135 Teaching Reading in the Junior and Senior High School (3) Approaches for teaching reading; general review of teaching 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. Additional training in reading instruction beyond that offered in the basic reading course EDCI 3112.

3140 Materials and Methods in Secondary School Business and Office Occupations Education (2) Prereq: EDCI 3040 and credit for or registration in 25 of the required 28 sem. hrs. for a teaching minor in typing and bookkeeping or 27 of the required 30 sem. hrs. for a teaching minor in typing and shorthand.

3141 Materials and Methods in Secondary School Distributive Education (2) Prereq: EDCI 3040 and credit for or registration in 27 of the required 30 sem. hrs. for a teaching minor in secondary school distributive education.

3142 Materials and Methods in Secondary School English (2) Prereq: EDCI 3040 and credit for or registration in 21 of the required 24 sem. hrs. of English for a teaching minor in secondary school English.

3143 Materials and Methods in Secondary School French (2) Prereq: EDCI 3040 and credit for or registration in 23 of the 26 sem. hrs. of required French courses for a teaching minor in secondary school French.

3144 Materials and Methods in Secondary School Social Studies (2) Prereq: EDCI 3040 and credit for or registration in 21 sem. hrs. of the required social studies courses for a teaching minor in secondary school social studies.

3145 Materials and Methods in Secondary School Latin (2) Prereq: EDCI 3040 and credit for or registration in the required Latin courses for a teaching minor in secondary school Latin.

3146 Materials and Methods in Secondary School Mathematics (2) Prereq: EDCI 3040 and credit for or registration in 17 of the 20 sem. hrs. of required mathematics courses for a teaching minor in secondary school mathematics.

3147 Materials and Methods in Secondary School Science (2) Prereq: EDCI 3040; 8 sem. hrs. of biology (Biol. 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, 2008, 2009 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.

3148 Materials and Methods in Secondary School Speech (2) Prereq: EDCI 3040 and credit for or registration in the required speech courses for a teaching minor in secondary school speech.

3149 Materials and Methods in Secondary School Spanish (2) Prereq: EDCI 3040 and credit for or registration in 23 of the 26 sem. hrs. of required Spanish courses for a teaching minor in secondary school Spanish.

3160 Materials and Methods in Art in Elementary and Secondary Schools (2) Prereq: EDCI 3040 and credit for or registration in 25 of the 31 sem. hrs. of required art courses for a teaching minor in art.

3170 Materials and Methods in Vocal Music in Elementary and Secondary Schools (2) Prereq: EDCI 3040 and completion of sophomore-level courses in music theory, history, voice, and piano required for a teaching major in vocal music education.

3171 Materials and Methods in Instrumental Music in Elementary and Secondary Schools (2) Prereq: EDCI 3040 and completion of sophomore-level courses in music theory, history, and major and minor instruments required for a teaching major in instrumental music education.

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 procedures and implementation of procedures.

3620 Practicum in Teaching of a Foreign Language in a Foreign Culture (6) Offered by extension in summer only.


3625 Student Teaching in the Elementary Grades (12) Prereq: see "Requirements for Student Teaching," page 155, 2 hrs. lecture; 30 hrs. lab. Pass-fail grading.


3635 Student Teaching in the Secondary Grades (12) Prereq: see "Requirements for Student Teaching," page 155, 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," page 155, 2 hrs. lecture; 15 hrs. lab. For students majoring in art, health and physical education, music, and speech and hearing therapy. Pass-fail grading.

3660 Materials and Methods in School Library Practice (3) Prereq: EDAF 3550, 3551, 3552, and 3553. 6 hrs. lab. Since assignments to this course are made a year in advance, application must be made to the dean of the College of Education accordingly. Materials, methods, and practices in use of the school library by elementary and secondary school children.

3759 Student Teaching in Special Education (Mental Retardation) (8) Prereq: EDHD 3751 and 3752; see "Requirements for Student Teaching." Page 155. 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.

4020 Foundations of Kindergarten Education (3) Prereq: consent of instructor.

4021 Principles and Practices in Kindergarten Education (3) Prereq: consent of instructor.


4040 Principles of Secondary Education (3)

41113 Communication Skills and Language Development for the Young Child (3) Prereq: EDCI 3112 or equivalent. Communication skills of the child ages 0 to 6; analysis of the language-concept skills of the young child; techniques for teaching these skills and diagnosing difficulties which may become potential communication problems.

4140 Teaching Cooperative Education (3) Prereq: consent of instructor.

4690 Practicum in Early Childhood Education (3) Prereq: EDCI 4020 or credit or registration in EDCI 4021. Practical experience for prospective preschool teachers.

5890 Special Topics in Education (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 9 sem. hrs. New methods, trends, and techniques in education.

7040 Foundations of Business Education (3) Prereq: specialization in business education or consent of instructor.

7105 Teaching Reading in the Elementary School (3)

7107 Special Problems in Reading (3) 1 hr. lecture; 4 hrs. lab.

7108 Studies in the Teaching of Elementary School Science (3)

7109 Studies in the Teaching of Elementary School Mathematics (3)

7110 Studies in the Teaching of Elementary School Social Studies (3)

7111 Studies in the Teaching of Elementary School Language Arts (3)

7130 Techniques and Resources for Reading Instruction (3) Prereq: EDCI 7105 or 7135 or equivalent. Instructional methods and materials in all areas of reading: demonstration and student production, as well as application of materials and methods for effective reading instruction.

7131 Developing Learning Skills Through Content Reading (3) Prereq: EDCI 7105 or 7135 or equivalent. Interrelationship between learning skills and the content areas; approaches, the reading process, materials, and research related directly to reading in the various content areas.

7135 Techniques for Teaching Reading in the Middle and Secondary School (3) Specific reading skills appropriate for the upper levels; review of various approaches for teaching reading; techniques for improving the school reading program.

7140 Studies in the Teaching of Social Studies in Secondary Schools (3)

7141 Studies in the Teaching of Mathematics in Secondary Schools (3)

7142 Studies in the Teaching of English in Secondary Schools (3)

7143 The Teaching of Literature in Secondary Schools (3)

7145 Improvement of Instruction in Typewriting, Shorthand, and General Business (3)

7146 Improvement of Instruction in Bookkeeping and Clerical Office Practice (3)

7170, 7171 Vocal Pedagogy (2, 2) Also offered as Mus. 7170, 7171. 7170 compares the various approaches to teaching singing; 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.

7205 Critical Analysis of Current Research in Reading (3) Prereq: 12 hours of graduate reading courses. Critical analysis and synthesis of current literature in the field of reading, including evaluation of current research, delineation of areas of needed research, and application of research findings in the instructional program.

7425 Designing, Implementing, Evaluating, and Supervising the Reading Program (3) Prereq: 12 hours of graduate reading courses. 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 the theory.

7610 Advanced Seminar and Practicum in Elementary Education (6) 2 hrs. conf.; 8 hrs. lab. For students majoring in elementary education. Two-hour weekly conference with the major professor or other appropriate individuals. 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 diagnostic techniques of evaluating reading strengths and weaknesses of elementary and secondary school students; includes theoretical models as well as a practicum which allows for application of techniques.

7683 Prescriptive Techniques and Practicum in Reading (3) Prereq: EDCI 7105 and 7682, or equivalents. 2 hrs. lecture; 2 hrs. lab. Procedures for providing prescriptive instruction in reading; includes theory and practice.

7684 Advanced Internship in Reading (6) Prereq: advanced standing in the specialist or doctoral program in education. 1 hr. lecture; 10 hrs. lab. Field experiences in various job-related settings that the reading specialist may encounter after completing degree requirements. Includes practical teaching experiences at the local school and university levels, administrative experience at the parish level, and consultant experience at the state level.

7765 Severe Disabilities in Reading (3) Prereq: EDCI 7682 and 7683 or equivalents 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.

7810 Current Trends in Secondary School Instruction (3)

7811 Seminar in Current Trends in Education Literature (3) Open only to students who have completed qualifying examination for the doctoral degree.

7820 The Curriculum in the Elementary and Secondary Schools (3)

7821-7822 Problems in Curriculum and Instruction (2-4, 2-4) For advanced graduate students who are qualified to undertake individual problems.

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.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

DEPARTMENT OF DAIRY SCIENCE

HEAD: Frye, Professor
PROFESSORS: Gholson, Roussel, Rusoff
ASSOCIATE PROFESSORS: Achacoso, Gough
ASSISTANT PROFESSORS: Adkinson, Baham, Chandler, Galton, Keith

Dairy Science (Dary.)

1048 Elements of Dairying (3) Fundamentals of dairy production and manufacturing. Achacoso, Keith, Roussel

1049 Dairy Production Operations and Animal Evaluation (2) Prereq: credit or registration in Dairy. 1048. 1 hr. lecture; 2 hrs. lab. Basic production practices with dairy cattle; animal evaluation and identification, milking operations, animal care, fitting and showing. Galton

2075 Milk and Dairy Foods (3) 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. Gholson

2085 Milk Quality Control Laboratory (2) 4 hrs. lab. Public Health Service laboratory and inspection procedures for quality control on dairy farms and in milk plants. Gholson, Gough

2093 Advanced Dairy Products, Judging (1) 2 hrs. lab. A college team is selected from this group. Advanced techniques in judging and evaluating dairy products; emphasis on competitive judging. Gholson

3001 Public Health Administration (1) Prereq: MBio. 3100 or consent of instructor. Organization and administration of national, state, and local public health agencies. Gholson

3040 Techniques of Judging and Evaluating Dairy Cattle (1) Prereq: Dairy. 1048. 2 hrs. lab. Emphasis on the combined use of descriptive type and performance indexes in dairy cattle evaluation. Galton

3049 Advanced Topics in Dairy Science (3) Prereq: senior standing and consent of department head. Topics from production or manufacturing areas.

4010 Applied Dairy Cattle Nutrition (3) Prereq: AnSc 4009 or equivalent. Emphasis on requirements of the lactating animal and effect of ration content on milk yield and composition; utilization of stored roughages and modern techniques of ration formulation to include challenge feeding concepts and use of "complete rations." Rusoff

4018 Population Genetics in Dairy Cattle Improvement (3) Prereq: Zool. 2153 and ExSt 4001, or equivalents. Population genetic principles involved in improvement of dairy cattle. Adkinson

4021 Fermented Dairy Foods (3) 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) 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. Gholson

4043 Dairy Cattle Endocrinology (3) Relation of endocrine system to reproduction, growth, and function of domestic animals and physiology of milk secretion. Gholson

4044 Reproduction and Artificial Breeding of Dairy Cattle (3) 2 hrs. lecture; 2 hrs. lab. Reproductive physiology of dairy cattle; principles and techniques of artificial breeding. Roussel

4051 Dairy Seminar (1) May be taken twice for credit. Required for all seniors in the Department of Dairy Science. Reports and discussion of current scientific investigations. Keith

4054 Dairy Farm Management (3) 2 hrs. lecture; 2 hrs. lab. Principles of managing dairy cattle; recommended farm practices for economical milk production. Galton

4071 Tropical Livestock Husbandry (3) Also offered as AnSc 4071. Breeding, feeding, and management of livestock in the tropics; human, environmental, and economic factors influencing livestock production in tropical areas; role of livestock in the total agricultural development of such areas. Adkinson

4081 Dairy Microbiology (3) Prereq: Mbio. 2051. 1 hr. lecture; 4 hrs. lab. Application of specific bacteriological procedures used in quality control and processing of dairy products. Gough

4082 Dairy Technology (3) Prereq: Chem. 2252 and 2304, or consent of instructor. 1 hr. lecture; 4 hrs. lab. Methods of chemical analyses of dairy products and related nondairy products; emphasis on interpretation and application to product control. Gough

7001 Advanced Dairy Physiology (3) Prereq: Dary. 4043, VetS 4041, and consent of instructor. Organ systems of metabolism; emphasis on dairy cattle. Roussel

7002 Minerals in Nutrition (2) Prereq: AnSc 4009 or consent of instructor. History, function, evaluation of nutritional status, requirements for various species, assay methods, and interrelationships. Rusoff

7003 Advanced Dairy Nutrition (3) Prereq: consent of instructor. Nutrition principles and recent research. Rusoff

7004 Advanced Dairy Cattle Breeding Plans (4) Prereq: consent of instructor. 3 hrs. lecture; 2 hrs. lab. Breeding principles and recent research. Adkinson

7017 Ruminology (4) Prereq: consent of department. 2 hrs. lecture; 6 hrs. lab. Comparison of ruminants to other herbivora; factors associated with obtaining and utilizing feed; emphasis on fermentation products and symbiotic relationship between animal and microflora; laboratory involvement of gut evaluation and effects of various feed additives, metabolites, and antimetabolites. Achacoso

7091 Advanced Dairy Seminar (1) May be taken 4 times for credit. Rusoff

7094 Seminar in Nutrition (1) Same as AnSc 7094, FdSc 7094, HEc 7094, PISc 7094. May be taken twice for credit.

8000 Thesis Research (1-9 per sem.)

8900 Research Procedure in Dairy Science (1-6) Prereq: consent of department. May be repeated for credit for a maximum of 9 sem. hrs. Research in dairy breeding and genetics, management, nutrition, and physiology; dairy manufacturing.

9000 Dissertation Research (1-9 per sem.)

DEPARTMENT OF ECONOMICS

CHAIRMAN: Rice, Associate Professor
ALUMNI PROFESSOR: Payne
PROFESSORS: Beard, Campbell, Daly, Flammang, Johnson, Jones, Melton, Scott, Smith
ASSOCIATE PROFESSORS: Culbertson, Farber, Lee, Richardson
ASSISTANT PROFESSOR: Martin

Students concentrating in economics in the College of Arts and Sciences are required to take Economics 2010, 2020, 2035, and 4720. Other economics courses (at least 80 semester hours required for the concentration) must be chosen with the advice and approval of the arts and sciences adviser in the Department of Economics. The job placement service of the College of Business Administration is available to graduates with this concentration.

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. Melton

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, economic 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. Jones, Staff
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.  

Jones, staff

2030 Economic Principles (3) Credit will not be given for both this course and Econ. 2010 and 2020. Economic understanding of both micro- and macroeconomic principles; economic problems associated with monetary policy, fiscal policy, public finance, government and business, labor, international trade, economic growth, and comparative economic systems.  

Smith, staff

2035 Macroeconomic Analysis and Policy (3) Prereq: Econ. 2010 and 2020; or 2030. The role of commercial banks and the Federal Reserve; theory of money, income, employment, and prices; internal and external effects of U.S. fiscal and monetary policies.  

Richardson, staff

3310 Economics of Consumption (3) 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.  

3500 Money and Banking (3) Prereq: Econ. 2010 and 2020; or 2030. Not open to Junior Division students. Monetary standards and monetary systems; relationship of commercial banks to the Federal Reserve System and the Treasury; relationship of money to income, employment, and prices.  

Beard, staff

3715 Business Finance (3) See Fin. 3715.

3999 Independent Study: Economic Problems (1-3) May be repeated for credit for a maximum 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) Credit will not be given for both this course and Econ. 1010. The American economy; background of modern problems dealing with money and banking, taxation, labor, international trade, and American position in world affairs.  

Melton, staff

4020 Comparative Economic Systems (3) Prereq: Econ. 2010 and 2020; or 2030. Comparison of capitalist, socialist, communist, and fascist systems of economic organization.

4025 Economics of the Soviet Union and Eastern Europe (3) Economic models applicable to centrally planned and decentralized socialist economies; planning and economic management in the Soviet Union, Yugoslavia, and other East European countries.

4030 Economic Development in Latin America (3) Prereq: Econ. 2010 and 2020; or 2030. Problems and policies of poor countries; emphasis on Latin America.  

Flammang


Flammang

4050 Economic Development of Europe (3) Major elements in the economic development of resources, transportation, marketing, finance, labor, and economic policy.  

Campbell, Jones

4110 Public Finance (3) Prereq: Econ. 2010 and 2020; or 2030. Principles of public finance; economic effects of public revenues, public expenditures, and intergovernmental fiscal relations; problems of fiscal policy and debt management at the federal level.  

Johnson

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 Economics (3) Prereq: Econ. 2010 and 2020; or 2030. Use of economic analysis to understand growth and functioning of urban areas, with emphasis on role of public policy in urban context; selected problems such as transportation, housing, fiscal problems of governmental units, political and economic fragmentation, welfare programs.

4210 Labor Economics (3) Prereq: Econ. 2010 and 2020; or 2030. Nature and causes of economic problems of the American wage earner; attempts of wage earners and society, through organization and legislation, to alleviate and solve these.  

Smith, Jones

4220 Manpower Economics (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.  

Scott

4320 The Economics of Population and Environment (3) Prereq: Econ. 2010 and 2020; or 2030. Processes and interactions of population growth, economic growth, depletion, and pollution, in both developed and underdeveloped countries; basic principles of demography and resource management; cost-benefit analysis and literature on externalities; emphasis on problems of reconciling economy of man and ecology of nature.  

Daly

4330 Analysis of Industrial Raw Materials (3) Prereq: Econ. 2010 and 2020; or 2030. Industrial raw materials and their relation to industrial progress; interrelations between resources and successful economic development of regions and nations.  

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; includes monopoly, mergers, innovation, and economics of advertising.

4410 Transportation (3) Prereq: Econ. 2010 and 2020; or 2030. Development of transportation systems in the U.S.; economic significance of transportation in an industrial society, and principles and problems of transport regulation.  

Melton
4420 Public Utilities (3) Prereq: Econ. 2010 and 2020; or 2030. Economic principles and problems associated with these regulated enterprises; emphasis on development and philosophy of regulation, control of aggregate earnings, rate theory, and analysis of rate making and regulatory problems and policy. Payne

4430 Economics of Motor Transportation (3) Prereq: Econ. 2010 and 2020; or 2030. Economic principles, problems, and significance of motor carrier transportation with regard to regulatory problems and policy. Payne

4440 The Economics of Government Regulation (3) Prereq: Econ. 2010 and 2020; or 2030. The economic bases, policies, and consequences of government regulation of economic activity. Payne

4450 Economics of Commercial Air Transportation (3) Prereq: Econ. 2010 and 2020; or 2030. Economic aspects of commercial aviation with reference to development, system of regulations, regulatory policy, and questions of public policy. Payne

4460 Economics of Business Logistics and Traffic Management (3) Prereq: Econ. 2010 and 2020; or 2030. Logical conceptual arrangement of distribution systems applicable to movement and handling of goods from point of production to point of ultimate use; transportation and its relation to plant location, transportation rates and rate structures, selection of appropriate distribution system, transportation tariffs and tariff interpretation; inventory and warehousing economics. Payne

4520 International Economics (3) Prereq: Econ. 2010 and 2020; or 2030. Theory and policy of international trade and finance. Culbertson

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. Richardson

4550 International Finance (3) Prereq: Econ. 2035 or 3500 or consent of instructor. International trade theory; foreign exchange rates, instruments, and markets; alternative international adjustment mechanisms, stability conditions, terms of trade, speculation, capital movements, and the latest reform proposals; emphasis on integrating elasticities and absorption theories of international adjustment. Culbertson, Johnson

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. Beard

4610 Introduction to Mathematical Economics (3) Prereq: Econ. 2010 and 2020, or 2030; and college algebra; or consent of instructor. Not normally open to students who have had differential calculus. Mathematical techniques used by economists; their application to economic analysis. Farber, Rice

4710 Aggregate Economic Analysis (3) Prereq: Econ. 2035 or 3500 or consent of instructor. Factors determining aggregate level of national income and employment; both classical and Keynesian static models developed. Beard

4720 Intermediate Microeconomic Theory (3) Prereq: Econ. 2010 and 2020; or 2030. Price determination, resource allocation, and pricing in a market economy. Payne

4730 The Evolution of Economic Thought (3) Leading economic theorists who have influenced economics as a body of scientifically developed propositions. Campbell

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. Beard

6500 Workshop on Economic Education (3) Offered summer only. For teachers with little or no previous training in economics. Basic economic principles and their application to the nation's current economic problems. Smith, Beard

7070 Theory of Economic Growth (3) Theories of economic growth and their development. Melton

7130 Public Finance and Taxation (3) Analysis of incidence and output effects of budget policy; emphasis on taxation. Johnson

7140 Seminar in Political Economy (3) Topics in the political market: public goods, externalities, efficiency conditions, voting, political parties, cost-benefit methodology, government budgets; additional topics may include economics of resources, intertemporal resource allocation, property rights. Johnson

7240 Seminar in Labor Economics (3) Development of American and European industrial systems; accompanying changes in the labor process. Jones

7250 Wage and Employment Analysis (3) Neoclassical wage and employment theory and its application to the labor market; labor force participation rates, discrimination; various labor markets, human capital, the inflation-unemployment trade-off. Scott

7320 Seminar in Environmental and Resource Economics (3) Neoclassical tradition of thought including property rights and externalities, intertemporal allocation and conservation, technical change and substitution, benefit-cost analysis and welfare measurement; bioeconomic tradition of thought including the biophysical underpinnings of economics drawing from thermodynamics, ecology, geology, and demography; ethical issues of stewardship in resource management and topical policy issues of energy, materials, food, and air and water pollution. Daly

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. Payne

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. Farber

7570 Seminar in International Trade and Finance (3) Selected topics in international trade and finance. Culbertson, Flammang
7580 Economic Development in Latin America (3) Research paper required. Latin American economic development examined from neoclassical, neomarxist, and neomalthusian perspectives; similarities and differences in analyses and policy recommendations of representative authors in each of the paradigms. Daly

7590 Seminar in Monetary and Fiscal Policy (3) Problems of determining, implementing, and evaluating monetary and fiscal policy: effect of monetary and fiscal policy 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; theoretical and empirical studies emphasized. Beard, Richardson

7595 Seminar in Monetary Theory (3) Contemporary monetary theory with emphasis on theories of supply and demand for money; integration of monetary and value theory; monetary equilibrium. Richardson

7610 Mathematics for Economists (3) Mathematical principles with frequent applications to economics; topics include functions, derivatives, differentials, integrals, Taylor's series, quadratic forms, constrained and unconstrained optimizations, properties of linear and nonlinear equation systems, and matrix algebra, determinants, and roots; applications, but primarily emphasis on mathematical principles for studying economics. Farber, Martin

7630 Introduction to Econometrics (3) Prereq: Econ. 4610 or differential calculus. Empirical research methods in economics; application of regression analysis in economic research and special problems arising in use of economic data; alternative methods of estimation. Rice

7640 Econometrics (3) Prereq: Econ. 7630, QM 4000, and either Econ. 7610 or differential calculus. A continuation of Econ. 7630; estimation of systems of economic relations, the identification problem, and advanced topics. Rice

7650 Mathematical Economics (3) Mathematical principles applied to economic problems; topics include optimization in the theory of the firm and household, general equilibrium, stability, comparative statics, control theory. Farber

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. Campbell

7750 History of Economic Thought—Modern Period (3) Development of economics from 1800 to 1900; emphasis on the classical followers of Smith, Marx, 19th-century positivism and socialism, the marginal revolution. Campbell

7760 Managerial Economics (3) Practical applications of microeconomic theory; demand forecasting techniques, cost estimation, and analysis of market structures. Scott

7770 Price Analysis (3) Theories of utility, demand, cost, production, factor pricing, and welfare. Farber, Martin

7780 Advanced Microeconomic Theory (3) Prereq: Econ. 4610 and 7770; or consent of instructor. Advanced price theory topics: capital theory, general equilibrium, distribution theory, market structures. Farber

7790 Macroeconomic Theory (3) Advanced macroeconomic analysis; analysis of consumption and investment theory; introduction of dynamic neo-Keynesian models, contemporary growth models, wage and price dynamics, and large-scale econometric models. Richardson

7799 Seminar in Advanced Economic Problems (3) May be taken twice for credit.

8000 Thesis Research (1-9 per sem.) Pass-fail grading.

8900 Predissertation Research (1-9) May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-9 per sem.) Pass-fail grading.

EDUCATION

(See Department of Administrative and Foundational Services, page 227; Department of Curriculum and Instruction, page 259; Department of Health, Physical, and Recreation Education, page 297; Department of Human Development, page 310; University Laboratory School, page 369; and/or School of Vocational Education, page 375.)

DEPARTMENT OF ELECTRICAL ENGINEERING

CHAIRMAN: Porter, Professor
PROFESSORS: Adams, Harlow, Hilburn, D. Johnson, J. Johnson
ASSOCIATE PROFESSORS: Cho, Ho, Nethken
ASSISTANT PROFESSORS: Connors, Richards, Trivedi
INSTRUCTOR: Aravena

Electrical Engineering (EE)

2120 Circuits—I (3) Prereq: credit or registration in Math 2090 and Phys. 2102; or consent of department. Time-domain analysis of electrical networks.

2121 Basic Electrical Engineering Circuits Laboratory (2) Prereq: concurrent registration in EE 2120. 1 hr. lecture; 2 hrs. lab.


2230 Electronics—I (3) Prereq: EE 2120 and 2121. Internal physical behavior and characterization of semiconductor devices and circuits.
Electronics Laboratory—I (2) Prereq: concurrent registration in EE 2230. 1 hr. lecture; 2 hrs. lab.

Computer Electronics (2) Prereq: Math 1021 or equivalent. Elementary computer systems employing combinational and sequential logic including techniques for simplifying Boolean functions describing logic operations; simple electronic logic gates.

Survey of Modern Electrical Engineering (3) Prereq: Physics 2102. Credit will not be given for both this course and EE 3910. Selected basic topics in current electrical engineering practice.

Senior Seminar (1) Prereq: senior standing. Student papers on topics of current interest in electrical engineering.

Special Projects (1-3) Prereq: senior standing and consent of instructor. May be repeated for credit for a maximum of 3 sem. hrs. Individual work with instructor on special project selected by instructor and student to satisfy mutual interests.

Linear Systems Analysis (3) Prereq: EE 2120. Methods of solution of linear electrical and mechanical systems.

Electronics—II (3) Prereq: EE 2130, 2230, and 2231. Analysis and design of electronic circuits; emphasis on semiconductor devices.

Electronics Laboratory—II (2) Prereq: concurrent registration in EE 3220. 1 hr. lecture; 2 hrs. lab.

Electric and Magnetic Fields (3) Prereq: Math 2057. Basic electromagnetic theory including formulation of Maxwell’s equations; vector notation.

Dynamic Electric and Magnetic Fields (2) Prereq: EE 3320. Maxwell’s equations for time-varying electromagnetic fields and their applications.

Electromagnetic Energy Conversion (3) Prereq: EE 2130. Fundamentals and basic analysis of power transformers and rotating electric machinery.

Electrical Engineering Laboratory (2) Prereq: concurrent registration in EE 3420. 1 hr. lecture; 2 hrs. lab.

Power Systems Analysis (3) Prereq: EE 3420. Power systems during fault conditions; per-unit values and method of symmetrical components.

Electrical Engineering Laboratory (2) Prereq: concurrent registration in EE 3430. 1 hr. lecture; 2 hrs. lab.

Introduction to Control Systems (3) Prereq: EE 3120. Control systems, including frequency-domain and time-domain techniques; transfer function approach related to state concepts of analysis; methods of analyzing stability of systems.

Servomechanism Laboratory (2) Prereq: credit or registration in EE 3520. 1 hr. lecture; 2 hrs. lab. Operation of closed-loop control system.

Comprehensive Electrical Engineering (3) Prereq: Phys. 2102 or consent of instructor. Credit will not be given for both this course and EE 2920. For students not majoring in electrical engineering. Elementary circuits, devices, and systems in electrical engineering.

Electronics (2) Prereq: EE 3910. For students not majoring in electrical engineering. Basic electronics and instrumentation.

Electrical and Electronics Laboratory (2) Prereq: EE 3910. 1 hr. lecture; 2 hrs. lab. For students not majoring in electrical engineering. Basic electrical and electronics laboratory.

Underwater Acoustics (3) Prereq: Math 1052, Phys. 2102. EE 3910, or equivalents. Fundamental concepts of acoustics in underwater environment.

Special Topics in Electrical Engineering (3) May be taken twice for credit. Students majoring in curricula other than electrical engineering should consult the instructor. Selected topics of current interest in electrical engineering.

Network Analysis (3) Prereq: EE 3120 and Math 2057. Linear networks, with introduction to filters and network synthesis.

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; Kirchhoff’s third and fourth laws.

Introduction to State Space Analysis (3) Prereq: EE 3120 or equivalent. Differential equations, advanced topics in matrix theory, difference equations, z-transforms, state variable representation of continuous and discrete systems, and controllability and observability.

Digital Signal Processing (3) Prereq: EE 3120 or consent of instructor. Fundamentals of processing signals by digital techniques; application to practical problems; z-transforms, discrete Fourier transform, digital filter design techniques, and fast Fourier transform.

Waveform Generation and Processing (3) Prereq: EE 3220 and 3221. 2 hrs. lecture; 3 hrs. lab. Pulse generation and wave-shaping circuits, sampling, A/D and D/A conversions; concepts of interfacing analog and digital systems.


Linear Circuit Design (3) Prereq: EE 3230 and 3221. 2 hrs. lecture; 3 hrs. lab. Fabrication and use of discrete and monolithic integrated circuits; use of building blocks necessary for design of analog systems.

Microwave Engineering (4) Prereq: EE 3330. 3 hrs. lecture; 3 hrs. lab. Waveguides, cavities, signal sources, and other microwave devices.

Antenna Theory and Design (4) Prereq: EE 3330. 3 hrs. lecture; 3 hrs. lab. Antennas and antenna arrays; measurement of impedances and far-zone radiation patterns.

Advanced Electromechanical Energy Conversion (3) Prereq: EE 3420 or equivalent. Generalized elec-
tric machinery theory; dynamic, transient, and steady-state behavior of balanced/unbalanced excited converters.

4430 Interconnected Systems Theory (3) Prereq: EE 3430 or equivalent. 2 hrs. lecture; 3 hrs. lab. Interconnected power systems including control and economic operation, load flow, stability, and development of design criteria; digital computer used to facilitate system studies.

4440 Electric Control Systems (3) Prereq: EE 3420. 2 hrs. lecture; 3 hrs. lab. Design of control circuits for electrical systems; relays, magnetic amplifiers, static switching units, and electronic devices used in control systems.

4450 Special Problems in Power (3) Prereq: EE 3430. 3 hrs. lecture/demonstration. Special problems in power field.

4520 Advanced Topics on Control Systems Design and Theory (3) Prereq: EE 3520 or consent of instructor. Basic principles and techniques of servomechanisms extended to control-system design and compensation; techniques include cascade compensation using root locus and frequency response plots, feedback compensation, and Guillemin's approach; subjects on nonlinear control systems include phase plane analysis, describing functions, relay servomechanisms, and introduction to Lyapunov's methods.

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 Introduction to Random Processes in Engineering (3) Prereq: EE 3120 or consent of instructor. Basic concepts of probability theory with engineering applications, descriptions of random process ensembles, auto-correlation functions, spectral analysis, shot effect and Gaussian noise, RMS estimation, and linear mean-square estimation.

4710 Communications in Computing (3) See CSc 4310.

4720 Introduction to Electronic Analog Computers (3) Prereq: Math 2085. 2 hrs. lecture; 3 hrs. lab. Application of electronic analog computer to solution of differential equations and to system simulation and design; basic knowledge of direct currents assumed.

4740 Introduction to Digital Systems (3) Prereq: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Number systems, Boolean algebra, logical design techniques, and operation of some basic digital systems.

4750 Digital Systems (3) Prereq: EE 4740. 2 hrs. lecture; 3 hrs. lab. Theory and design of digital systems.

4760 Digital Computer Circuit Design (3) Prereq: EE 2720 or equivalent. Topics in digital computer circuit design.

4777 Foundations of Hybrid Computation (3) Prereq: FORTRAN programming equivalent to CSc 2260 and Math 2065 or equivalent. 2 hrs. lecture; 3 hrs. lab. Same as ChE 4277. Theories and techniques necessary for effective use of hybrid computers in various engineering disciplines, including analog computer programming, real-time digital computer programming, and logic programming; application of these techniques on hybrid computation facilities.

7000 Advanced Topics and Problems in Electrical Engineering (3) May be taken 3 times for credit. Topics determined by instructor's interests and latest developments in electrical engineering; typical topics: communication, control, systems, electronics, power, acoustics, networks, bioengineering, and instrumentation.

7091, 7092, 7093, 7094 Electrical Engineering Research (2 each) 1 hr. consultation; 3 hrs. lab.

7110, 7120, 7130, 7140 Network Synthesis (3 each) Advanced methods for analysis and synthesis of electric networks.

7150 Theory and Application of Digital Signal Processing (3) Elementary and advanced topics in digital filter design, spectrum analysis, digital hardware implementations, and applications.

7210 Semiconductor Device Modeling (3) Emphasis on systematic modeling of active and passive solid-state devices; modeling theory to relate device physics to circuit performance; selected circuit applications.

7220 Analysis and Design of Electron Devices (3) Mathematical analysis of semiconductor devices; emphasis on device physics and necessary assumptions for tractable analysis; design limitation and compromises.

7230 Solid-State Electronics (3) Atomic structure and quantum theory; transport phenomena in solids; nonequilibrium processes; and dielectric, magnetic, and optical properties of materials.

7240 Integrated Circuits (3) Fabrication processes and techniques for monolithic integrated devices such as thin-film and diffused resistors, diodes, transistors, and field-effect devices; selected linear and digital circuit applications.

7310, 7320, 7330, 7340 Electromagnetic Theory and Techniques (3 each) Electromagnetic theory applied to radio propagation, waveguides, and microwave systems.

7350, 7360 Boundary Value Problems in Engineering (3) Prereq: consent of department. Separation of variables method for solving certain classical partial differential equations, including properties of special functions and their applications to engineering problems.

7410, 7420, 7430, 7440 Energy Systems (3 each) Prereq: EE 3430 or equivalent. Topics include system modeling, load flow analysis, economic dispatch, automatic generation control, voltage regulation, surge phenomena, symmetrical and unsymmetrical fault analysis, transient stability analysis, system protection, and system design.

7510 Survey of Control Systems Theory (3) Prereq: EE 3520 or equivalent. Mathematical representation of continuous and discrete systems; stability of discrete systems; analysis of effects of sampling; analysis of closed-loop on-line computer control systems.

7520 Optimal Control Theory (3) Prereq: EE 4140 or 7510. Dynamic optimization applied to control systems: minimum principle, Hamilton-Jacobi-Bellman theory.
dynamic programming, and gradient algorithms; includes numerical methods for solution of two-point boundary value problem.

7530 Mathematical Modeling of Stochastic Systems (3) Prereq: mathematical maturity equivalent to that denoted by B.S. degree in any branch of engineering, physics, or chemistry; or consent of instructor. Abstract probabilistic models developed from first principles; their relation to physical stochastic systems and to modern analysis; elements of random functions analysis and statistical description of stochastic processes; Markovian models; optimal linear estimation, Kalman filtering, and their applications.

7540 Optimization of Stochastic Dynamic Systems: Estimation and Control (3) Prereq: background in probability and stochastic processes at the level of EE 7530 or equivalent, and familiarity with modern control concepts, e.g., EE 4140 or 7510 or equivalent. The optimal estimation problem, optimal control problem, and separation principle of optimal stochastic control theory; diffusion models; nonlinear filtering; optimal control of discrete-time and continuous-time stochastic systems.

7550, 7560 Foundations of Systems Science (3,3) Prereq. (for 7550): mathematical maturity equivalent to that denoted by B.S. degree in any branch of engineering, physics, or chemistry; or consent of instructor. Prereq. (for 7560): EE 7550 or equivalent, or consent of instructor. Modern mathematical methods applied to problems in engineering and other quantitatively based scientific disciplines; problems in system modeling, identification, and analysis studied by employing concepts such as finite dimensional vector spaces, Banach and Hilbert spaces, linear and nonlinear operators, functional representations, and differential and integral equations.


7610, 7620 Communication Systems (3,3) Prereq: credit or registration in EE 4640 or equivalent. Amplitude, frequency, and pulse modulation systems; influence of noise on system requirements and performance.

7630, 7640 Statistical Communication Theory (3,3) Application of statistical estimation theory and statistical detection theory to current topics.

7730 Image Analysis (3) Prereq: EE 3120 or equivalent. Basic fundamentals and techniques of digital processing; topics include hardware and software, applications, 2D transforms, preprocessing, texture analysis, and edge detection; emphasis on application of theory to practical problems.

7777 Topics in Hybrid Computation (3) Prereq: consent of instructor. For graduate students with good background in hybrid computation, e.g. ChE 4277 or EE 4777 or equivalent. 2 hrs. lecture; 3 hrs. lab. Hybrid software (including monitors and operating systems), hybrid hardware (including interface and priority interrupt structures), and hybrid computer error analysis techniques; topics from hybrid simulation of stochastic systems, hybrid simulation of optimal control systems, hybrid solution of partial differential equations, and bioengineering applications.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

ENGINEERING*

Engineering (Engr.)

1049 Engineering, Man, and Energy (3) Also offered as EnSc 1049. Basic engineering; significant technological developments related to discovery, transmission, conversion, and utilization of various types of energy.

2060 Introduction to the Use of Computers (2) Prereq: eligibility to take Math 1050 or consent of instructor. Credit will be given for only one of the following: CSc 1240, 1241, 2260, 2262, or Engr. 2060. Basic principles of digital programming in FORTRAN; application of subroutines; application of electronic computers to typical engineering problems.

3049-3050 Engineering Practice (1-3, 1-3) Prereq: consent of instructor. Offered summer only. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participating in the summer program. Selected engineering problems in an industrial environment.

3110 Environmental Management Laboratory (3) / 1

*Courses administered by the College of Engineering.

ENGINEERING GRAPHICS

(See Department of Industrial Engineering, page 314.)
DEPARTMENT OF ENGLISH

CHAIRMAN: Shrell, Professor
ALUMNI PROFESSOR: Stanford
WILLIAM A. READ PROFESSOR OF ENGLISH LITERATURE: Simpson
ASSOCIATE PROFESSORS: Broughton, R. Crump, de Caro, Evans, Fischer, Kennedy, May, McCormick, Parker, Rothschild, Schweetzer, Watson, Weaver

Writer-in-Residence: Madden

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. The 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 foreign students, or approved transfer credit) is required of all students and is prerequisite to all other English courses.

Students concentrating in English must complete with at least a "C" average a total of 36 hours in the subject, 15 of which must be in courses above 3000. 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); 3 hours in Shakespeare (2148, 4148, 4149); 3 hours in Chaucer (4137) or Milton (4147); courses in at least four of the following literary periods and disciplines:
(a) Writing and Language: 4005, 4006, 4007, 4008, 4010, 4011, 4012, 4013.
(b) Medieval and Renaissance: 4030, 4040, 4041, 4044, 4048, 4049.
(c) Restoration and 18th Century: 4050, 4051, 4055.
(d) 19th Century: 4060, 4061, 4062, 4063, 4065.
(e) 20th Century: 2087, 4085, 4087, 4088.
(f) American Literature: 2070, 4070, 4071, 4075, 4076, 4173, 4174.
(g) Backgrounds to Literature: 4024, 4084, 4124.

LANGUAGE OPTION: English 2020 (or 2021) and 2022 (or 2023) or 2025 (or 2026) and 2027 (or 2028); English 2010, 4010, 4011, and 4012; 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); English 2005, 2007, 4000; one of the following: Chaucer (4137), Shakespeare (2148, 4148, 4149), or Milton (4147); two of the following: 4005, 4006, 4007, and 4008; courses in at least two of the seven literary periods and disciplines described above.

A special curriculum leading to the B.A. degree with honors in English is also offered. Details are available from the departmental office.

Graduate students should consult the section entitled “Department of English” in the Graduate School Catalog. Undergraduates expecting to do graduate work should plan to take the Graduate Record Examination during the fall semester preceding their graduation.

English (Eng.)

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.

0002 English Composition (3) May be substituted for Engl. 0001. For students whose diagnostic tests indicate the need for intensive work in basic writing skills and who feel that their ethnic or cultural backgrounds require special approaches to the problem. Not for degree credit.

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 and paragraph, 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 of all foreign students (graduates, undergraduates, and transfer students) who are not excused on the basis of the placement examination required of every new foreign student.

0006 English Composition (5) Prereq: Engl. 0003 or placement by Department of English. 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 theme, accompanied by exercises and readings.

1001 English Composition (3) Prereq: Engl. 0006 or placement by Department of English. Introduction to writing in simpler forms of expressive and informative discourse.

1002 English Composition (3) Prereq: Engl. 1001 or placement by Department of English. An honors course, English 1003, is also available. Introduction to writing persuasive, evaluative, and other forms of argumentative discourse.

1003 HONORS: English Composition (3) Same as English 1002, with special honors emphasis for qualified students.

1004 English Composition (3) Prereq: Engl. 0004 or placement by Department of English. 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 of foreign 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.

1005 English Composition (3) Prereq: Engl. 1004 or placement by Department of English. For international students. Same as Engl. 1002, with continued work on the problems specific to international students.

2001 Advanced English Composition (3) Theory and practice of exposition, description, and narration.

2002 Exposition (3) For students in science, engineering, and agriculture. Expository writing; various kinds of exposition with emphasis on preparation of reports, technical papers, and memoranda.

2005 Introduction to Writing Short Stories (3) Writing short stories for workshop criticism; practice in techniques of using point of view, dialogue, setting, and characterization.

2007 Introduction to Writing Poetry (3) Writing poems for workshop criticism; practice in both open and closed forms, with emphasis on contemporary techniques and prosody.

2008 Introduction to Writing Drama (3) Writing plays for workshop criticism; practice in techniques of exposition, characterization, and dramatization.

2010 English Grammar (3) Analysis of the sentence and its parts, and discussion of the bases of good usage; reflects both traditional and modern approaches to grammar; of particular interest to prospective English teachers.

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 and appreciation 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 and appreciation of these types of literature.

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.

2087 Poetry After World War II (3) English and American poetry since World War II.

2120 Special Topics in Literature and Language (3) May be repeated for credit.

2148 Shakespeare (3) The more popular plays.

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. Reading, conferences, and reports under the direction of a member of the English faculty.

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 grade-point average of at least 3.00 in all work taken. May not be taken by students who have already completed Engl. 2920, 2921, 2922. Reading, conferences, and reports under the direction of a member of the English faculty.

3000 HONORS: Honors Thesis (3) Conclusion of the English honors program; for details, consult the department.

3033 Satire (3) Reading and analysis of satiric literature, chiefly English and American; some attention to old and middle comedy, to Latin satire, and to theories of satire; includes such diverse writers as Aristophanes, Juvenal, Swift, Pope, Twain, Vonnegut, and Waugh.
3210 Studies of Major Writers (3) May be taken twice for credit. Writers selected for study will vary. Intensive 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. Topics will vary. Close examination of a particular theme (e.g., revolution, quest, or spiritual crisis) in the works of several authors and perhaps crossing historical and cultural boundaries.

3232 Literature and Psychology (3) Fundamental insights of psychology and psychiatry as 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.

3820, 3821, 3822, 3823 HONORS: Honors Seminar (3 each) Normally open only to juniors and seniors with consent of instructor and on completion of either Eng. 2023 and 2026 or 2026 and 2028. Subject matter and instructor vary from semester to semester; additional details given in the department's announcement of courses available at the beginning of each registration period.

4000 Major Project for Creative Writing Majors (3) Prereq: consent of instructor.

4005 Short Story Writing (3) Prereq: consent of instructor. Guided practice in short story writing; techniques involved in writing the short story.

4006 Writing the Novel (3) Prereq: consent of instructor. Guided practice in writing the novel; techniques involved in writing the novel.

4007 Writing Poetry (3) Prereq: consent of instructor. Guided practice in writing poetry; techniques involved in writing poetry.

4008 Writing Drama (3) Prereq: consent of instructor. Guided practice in writing plays; techniques involved in writing the play.

4010 Introduction to Linguistics (3) Historical, geographical, and structural linguistics.

4011 History of the English Language (3) Development of the language from Old English times to the modern English period.

4012 The Contemporary English Language (3) Structure of the English language and its application in the classroom.

4013 Semantics and Rhetoric (3) Word meanings and classification of modes of discourse.

4023 Introduction to World Folklore (3) Folklore genres of the world; the social background which produces folklore; various literary, psychological, sociological, anthropological, and historical approaches to this folklore material; relationships between folklore and written literature.

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; the characteristics and development of such major genres as epic and romance; changing attitudes toward such issues as the nature of the hero and heroism, love and loyalty, and the 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) Detailed examination of metaphysical poetry, early neoclassical poetry, and the prose of the age; possible topics include the effects of political, religious, and scientific tensions on the literature; the Baroque element in 17th-century poetry and prose; the theme of 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) Development of English drama from the medieval cycle plays to the time of Shakespeare; particular attention to the plays of Christopher Marlowe.

4049 Drama of the Age of Shakespeare (3) Shakespeare's contemporaries and successors to 1642; the 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) Studies in Dryden and Swift and their friends and opponents, including such Restoration and early 18th-century writers as Rochester, Wycherley, Congreve, Addison, and Steele.

4051 The Age of Exuberance—II (3) The line of wit from Pope to Burke, including studies in such 18th-century writers as Gay, Arbuthnot, Johnson, Boswell, and Sheridan.

4055 The English Novel (3) Development and characteristics of the English novel from its beginnings through the time of 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, with some attention to such prose writers as DeQuincey and Hazlitt.

4062 Earlier Victorian Literature (3) Tennyson, Browning, Macaulay, Carlyle, and their contemporaries.

4063 Later Victorian Literature (3) Arnold, Swinburne, Morris, Rossetti, Pater, Stevenson, and contemporaries to 1900.
**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** *American Fiction (3)* Development of the novel and short story from their beginnings in America to 1870; readings in selected works of the chief fiction writers.

**4076** *American Fiction (3)* A continuation of English 4075; 1870 to the present.

**4084** *Modern Criticism (3)* Reading and analysis of important documents of 20th-century criticism, with application of critical principles and techniques to selected literary works.

**4085** *20th-Century Novel (3)* The English and American novel, with 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 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.

**4124** *The Literature of the English Bible (3)* Literary themes in the King James version; particular reference to the literary influence of the Bible on later literature.

**4137** *Chaucer (3)* *The Canterbury Tales*.

**4147** *Milton (3)* A study of the poems with emphasis on *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*; examination of 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.

**4175** *American Folklore (3)* Does not overlap with folklore courses offered in other departments. Folklore of the U.S., including that of regional, racial, ethnic and occupational groups; relation of folklore to other aspects of American vernacular culture and to American literature.

**4231** *Literature and Film (3)* Comparative aesthetics of literature and film; literary influences on the form and structure of film; the grammar of film; the theory and practice of film criticism.

**7901** *Colloquium on the Teaching of Freshman English (1)* Pass-fail grading.

**7910,** *7911* *Language (3,3)*

**7912** *Old English (3)*

**7913** *Middle English (3)*

**7920,** *7921,* *7922* *English Seminar (1-3 each)*

**7923** *Practical Criticism (3)* Literary analysis for teachers of literature; modern methods of interpretation and evaluation of poetry, drama, and fiction.

**7924** *Bibliography and Methods of Research (3)*

**7934** *Studies in Middle English (3)*

**7937** *Beowulf (3)*

**7940** *Studies in Nondramatic 16th-Century Literature (3)*

**7941** *Studies in the Nondramatic Literature of the 17th Century (3)*

**7943** *Studies in Shakespeare (3)*

**7948** *Studies in Pre-Shakespearean Drama (3)*

**7949** *Studies in Jacobean Drama (3)*

**7950** *Studies in the Nondramatic Literature of the Neoclassical Period (3)*

**7960** *Studies in the Romantic Period (3)*

**7962** *Studies in the Victorian Period (3)*

**7970** *Studies in American Literature: Colonial and Early National Periods (3)*

**7971** *Studies in American Literature: Later National Period (3)*

**7973** *Studies in American Literary Masters (3)*

**7974** *Special Studies in American Literature (3)*

**7984** *Seminar in Modern Criticism (3)*

**7985** *Seminar in Modern Fiction (3)*

**7987** *Seminar in Modern Poetry (3)*

**7988** *Seminar in Modern Drama (3)*

**8000** *Thesis Research (1-9 per sem.)*

**8900** *Independent Study (1-3)* May be repeated for credit for a maximum of 3 sem. hrs. in a master’s program and 9 sem. hrs. in a doctoral program; not more than 3 sem. hrs. may be earned in one semester. Directed readings on an individual basis under the guidance of the graduate faculty.

**9000** *Dissertation Research (1-9 per sem.)*
DEPARTMENT OF ENTOMOLOGY

HEAD: Graves, Professor
PROFESSORS: Boudreaux, Burns, Clower, Hammond, Newsom, Oliver, Rolston, Roussel, Steelman, Wilson
ASSOCIATE PROFESSORS: Chapin, Goyer, Meek, Reagan, Walker
ASSISTANT PROFESSORS: Fuxa, Johnson, LaFage, Smith, Sparks

Entomology (Entm.)

2001 Introductory Entomology (3) Prereq: Zool. 1001, 1002; or Boty. 1001, 1002; or Biol. 1001, 1002, 1003, 1004. 2 hrs. lecture; 2 hrs. lab. Insect recognition and classification, anatomy, life cycles, abundance, and control; effects of insecticides on humans; insects in agricultural and urban environments. Wilson

3001 Forest Entomology (3) Prereq: Zool. 1001, 1002; or Boty. 1001, 1002; or Biol. 1001, 1002, 1003, 1004, 2 hrs. lecture; 2 hrs. lab. Recognition, biology, and management of pests found in structures. LaFage

4001 Household and Structural Pests (3) Prereq: Entm. 2001. 2 hrs. lecture; 2 hrs. lab. Meek

4002 Veterinary Entomology (3) Prereq: Entm. 2001. 2 hrs. lecture; 2 hrs. lab. Meek

4003 Medical Entomology (4) Prereq: Entm. 2001 or equivalent. 2 hrs. lecture; 4 hrs. lab. Relation of insects and other arthropods to human disease. Steelman

4005 Insect Taxonomy (4) Prereq: Entm. 2001. 2 hrs. lecture; 6 hrs. lab. Chapin


4007 Arthropod Pest Management (6) Prereq: Entm. 4006. Registration for graduate credit by consent of department head. 24 hrs. lab. Offered summer only. Transportation fee. Populations of pest and beneficial arthropods of crops and livestock studied under actual field conditions; identification, biology, life and seasonal history, and population dynamics; determination of economic injury thresholds; control of key pests in sugarcane, soybeans, and cotton; field trips to acquaint students with other major pest problems in the state. Burns, staff

4008 Insect Toxicology (4) Prereq: Entm. 2001 and organic chemistry. 3 hrs. lecture; 3 hrs. lab. Graves, Roussel

4009 History of Biology (2) Prereq: senior standing or consent of instructor. Also offered as Zool. 4190. Boudreaux

4010 Biological Control (3) Prereq: Entm. 2001 or equivalent. 2 hrs. lecture; 3 hrs. lab. Offered in spring, odd-numbered years. Practice and theory of biological control of insect pests and weeds. Goyer

4011 Biology and Management of the Honey Bee (3) 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 Rinderer*

4012 Fundamentals of Horticultural Entomology (3) Prereq: Entm. 2001. 2 hrs. lecture; 2 hrs. lab. Principles of insect control; recognition of major pest species of insects and mites and their injury to horticultural plants; economic and esthetic injury thresholds; methods of control, including identification and utilization of beneficial species. Oliver

4013 Aquatic Entomology (3) Prereq: Entm. 2001 or equivalent. 2 hrs. lecture; 2 hrs. lab. Offered in spring, even-numbered years. Biology, ecology, classification, and importance of aquatic insects. Oliver

4014 Insect Morphology (3) Prereq: Entm. 2001 or equivalent. 2 hrs. lecture; 3 hrs. lab. Boudreaux


7002 Host Plant Resistance to Arthropods (4) Prereq: 9 hrs. of entomology or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Smith

7004 Systematics (3) Prereq: Entm. 4005 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Offered in fall, odd-numbered years. Modern practices and underlying theories of biological systematics. Rolston

7005 Classification of Immature Forms of Insects (3) Prereq: Entm. 4005 or equivalent. 2 hrs. lecture; 2 hrs. lab. Offered in spring, odd-numbered years. Oliver

7006 Insect Physiology (4) Prereq: 12 hrs. entomology and zoology. 2 hrs. lecture; 4 hrs. lab. Offered in fall, even-numbered years. Hammond

7007 Seminar in Entomology (1) May be repeated for credit. 2 sem. hrs. of credit required for each graduate degree in entomology.

7008 Special Topics in Entomology (1-3) Prereq: consent of department head. May be repeated for credit for a maximum of 6 sem. hrs. when topics vary. Lectures and/or labs on advanced topics in entomology not covered in other entomology courses.

7009 Insect Phylogeny and Evolution (4) Prereq: Entm. 2001 or equivalent, or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Boudreaux

7100 Insect Pathology (3) Prereq: introductory entomology and microbiology. 2 hrs. lecture; 3 hrs. lab. Offered in even-numbered years. Noninfectious and infectious diseases of insects. etiology, infectious processes, pathogenesis, host responses, and practical applications. Fuxa

7011 Insect Behavior (3) Prereq: introductory entomology. Offered in fall, odd-numbered years. An analysis of the diverse types of behavior exhibited by insects and other land arthropods. LaFage

*Geneticist (USDA).
8000 Thesis Research (1-9 per sem.)

8900 Research Problems (1-4 per sem.) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs.

9000 Dissertation Research (1-9 per sem.)

ENVIRONMENTAL DESIGN*

Courses listed to the left of hyphens are normally prerequisite to those listed to the right.

Environmental Design (END)

1051-1052 Introduction to Environmental Design (3,3) 2 hrs. lecture; 2 hrs. recitation. Design of the physical environment from individual artifact to global-scale plan; relationships between the natural and man-made environment, with attention to form, function, structure, and process.

*Courses administered by the College of Design.

INSTITUTE FOR ENVIRONMENTAL STUDIES

DIRECTOR: Martinez, Professor
PROFESSOR: Newchurch
ASSOCIATE PROFESSOR: Wilcox
ASSISTANT PROFESSOR: Waldon

Environmental Studies (EnvS)

1000 Environment and Technology, A Perspective on Environmental Problems (3) Environmental quality problems involving water, air, and land; representative ecological stresses analyzed to develop awareness of their fundamental nature and interrelationships; society’s response to alleviate such problems. Newchurch

1049 Engineering, Man, and Energy (3) See Engr. 1049.

1200 Field Course in Environmental Studies (2) Prereq: consent of instructor; preference for students with credit in EnvS 1000, END 1051 and 1052, and Zool. 4153. Enrollment limited to 32. Field trip fee. Field trips, site visitations, and lectures to delineate typical environmental quality problems and their solutions; industrial plants, municipal treatment facilities, river control structures, and critical ecosystem types included; environmental engineers at plants visited describe problems and solutions for their companies; guest lecturers conduct specialized field trips and review, analyze, and place in perspective problems and solutions encountered by students. Waldon

2144 Environmental Issues in Economics and Water Resources (3) Economic principles and control mechanisms governing man’s interaction with the biosphere in the process of satisfying human wants; engineering principles and technologies which transform parts of the environment into want-satisfying commodities and ultimately into unwanted waste; use cycles of water from its source through processing, reprocessing, use, reclamation, and disposal, within the limits of biophysical processes on which all economics and engineering depend. Newchurch

3110 Environmental Management Laboratory (3) See Engr. 3110. Waldon

4000 Environmental Engineering—I (3) See Engr. 4111.

4101 Environmental Chemistry (2) See Chem. 4150.

4141 Radiocology (3) See NS 4141.

4149 Design of Environmental Management Systems (3) Also offered as Engr. 4149. Integrated environmental systems planning at local, regional, national, and international levels; setting policies and objectives, identifying system requirements and available resources, defining constraints, establishing evaluation criteria, preparing and evaluating alternative concepts and plans for subsystems; optimization and implementation using qualitative trade-offs, mathematical models, and computer simulations; analysis includes technical, ecological, economic, legal, and political aspects of local, national, and foreign programs; class project deals with specific, large-scale environmental problem. Waldon

4261 Energy and the Environment (3) Important methods of stationary power generation; pollution related to fuel production, transportation, and use; energy use in transportation and pollution problems related to transportation; energy resources, regulatory aspects, and control technology related to stationary and moving sources of air pollution. Martinez

DEPARTMENT OF EXPERIMENTAL STATISTICS

HEAD: Schilling, Professor
PROFESSORS: Farthing, Koonce, Speed
ASSISTANT PROFESSORS: Blouin, Icaza, Keith, Tracy, Wright
INSTRUCTORS: Babcock, Church

OFFICE: 45 Agricultural Administration Building
Experimental Statistics (ExSt)

2095 Introduction to Scientific Sampling (3) Prereq: Math 1021 and 1022, or equivalents. 2 hrs. lecture; 2 hrs. lab. Concept of sampling; requirements for a valid sample, simple random sampling, stratified sampling, systematic sampling, cluster sampling, and other selected sampling techniques.

2201 Introduction to Statistical Analysis (4) See Soc. 2201.

4001 Introductory Experimental Statistics (4) 3 hrs. lecture; 2 hrs. lab. Statistical notations, statistical inference, sampling techniques, simple analysis of variance and variance components, linear correlation and regressions.

4055 Introduction to Probability and Statistics (3) See Math 4055.

4056 Mathematical Statistics (3) See Math 4056.

4085 Seminar in Statistics (1) Prereq: consent of instructor. May be repeated for credit when topics vary. Topics not covered in other experimental statistics courses.

7001 Basic Statistical Methods (4) 3 hrs. lecture; 2 hrs. lab. Basic concepts of statistical models and use of samples, variation and statistical measures, distribution, tests of significance, analysis of variance, regression and correlation, and chi-square.

7002 Advanced Statistical Methods (4) Prereq: ExSt 7001 or equivalent. 3 hrs. lecture; 2 hrs. lab. Multiple classification analysis, covariance, multiple regression, individual degrees of freedom, and factorial experiments.

7011 Nonparametric Statistics (3) Prereq: ExSt 7001 or equivalent. Application of nonparametric techniques to data, including chi-square tests for goodness of fit, Kolmogorov-Smirnov test, binomial test, Cochran Q test, McNemar test, Median test, and Kendall and Spearman rank correlation coefficients.

7021 Statistics in Animal Science (3) Prereq: ExSt 7002 or consent of instructor. Offered in alternate years. Sources and magnitude of errors in animal experiments, experimental design and methods of analysis, and sample size for specified degree of accuracy.

7022 Statistical Concepts in Animal and Plant Breeding (3) Prereq: Dary. 4018 or Agro. 4064 or AnSc 4018; and ExSt 7002. Offered in alternate years. Statistical aspects of quantitative inheritance; partitioning of variance; covariance among relatives; probability as applied to genetic systems; theory of inbreeding; and estimation and testing of genetic parameters.

7031 Principles of Experimental Design (3) Prereq: ExSt 7002 or equivalent. Comparison of designs and analyses; emphasis on factorial experiments, incomplete blocks, confounding, and lattice designs.

7034 General Regression Analysis (3) Prereq: ExSt 7002, AgEc 7018, QM 4010, or consent of instructor. Fundamental approach to regression analysis stressing an understanding of underlying principles; response surfaces, variable selection techniques, and nonlinear regression.

7035 Applied Least-Squares (3) Prereq: ExSt 7002 or consent of instructor. Methods of applying least-squares principles to the analysis of nonorthogonal data, with emphasis on the method of fitting constants.

7037 Multivariate Statistics (3) Prereq: knowledge of matrix algebra, and ExSt 7002 or consent of instructor. Theory and application of techniques of multivariate analysis including estimation with incomplete data, factor analysis, principal component analysis, problems in interpretation and canonical correlation for the life sciences.

7051 Applied Bayesian Inference (3) Prereq: ExSt 4055 and 7001; or equivalents. Basic decision theory applications, useful sampling distributions and convenient priors, Bayesian statistical inference, and Bayesian analysis of multiple decision problems.

7084 Practicum in Statistical Consulting (2) Prereq: ExSt 7001 and 7002. 4 hrs. lab. Pass-fail grading. May be taken twice for credit. Problems of scientific measurement; supervised application of statistical techniques to research problems.


7086 Advanced Seminar in Statistics (1) Prereq: consent of instructor. May be repeated for credit when topics vary. Special 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

(See School of Vocational Education, page 375.)

DEPARTMENT OF FINANCE

CHAIRMAN: Crary, Professor
ALUMNI PROFESSOR: Davidson
PROFESSORS: Aguilar, Felton, Staats, Woodland
ASSOCIATE PROFESSORS: Martin, Schroeder
ASSISTANT PROFESSORS: Breaux, Hyde, Lane, Norwood
INSTRUCTORS: Cordell, Zarruk

Prerequisite for any finance course may be waived in exceptional cases with consent of the instructor and approval of the department chairman.

See "Department of Economics," page 263, for courses in international trade and money and banking.
BUSINESS LAW

3200 Introduction to Law (3) Not open to students in the College of Business Administration or law students. 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) Not open to law students. Credit will not be given for both this course and Fin. 3200. Development of the Anglo-American common law, the American constitutional system, and the Louisiana civil law system; the law of contracts and agency; case materials used to demonstrate problem analysis and solution.

3202 Commercial Transactions (3) Prereq: Fin. 3201. Not open to law students. 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 and operation 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.

5200 Legal Environment of Business (2) Legal influences on the business environment; examination of various sources of law and their effect on business decisions; constitutional problems in employment, taxation, discrimination; emphasis on administrative and anti-trust law.

REAL ESTATE

3351 Principles of Real Estate (3) Prereq: Fin. 3201. Principles of purchasing, owning, and operating real estate relative to interest in reality, liens, contracts, deeds, titles, leases, brokerage, management.

3352 Real Estate Valuation and Finance (3) Prereq: Fin. 3351 or consent of instructor. Principles and methods of valuing business and residential land and improvements; sources, methods, and documents used in financing purchase or construction of homes, businesses, and developments.

7300 Seminar in Real Estate (3) Common 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.

RISK AND INSURANCE

3440 Risk and Insurance (3) Nature of nonspeculative 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) 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) Nature of 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.

4440 Group Insurance and Pensions (3) Uses of 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, approaches to financing, problems, and issues.

7400 Risk Management and Insurance (3) Risk management from the business manager's viewpoint; risk management as possible alternative to insurance; risk identification and measurement; risk retention, self-insurance, and risk transfer; loss financing and risk financing; access to insurance markets (including bid specifications and company selection); loss prevention; claims administration; risk management audits and insurance surveys.

FINANCE

3632 Bank Administration (3) Prereq: Acct. 2021 or 2101. 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. 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; the process of financial intermediation and allocation of financial resources; examination of major factors in interest rate determination; U.S. government securities market, mortgage market, federal funds market, corporate bond market, municipal securities market.

3715 Business Finance (3) Prereq: Econ. 2020 or 2030; QM 2000; and concurrent registration in Acct. 2021 or 2101. Also offered as Econ. 3715. The finance function within the business enterprise; tools and techniques of financial management, concepts of capital structure and dividend policy, working capital management, capital budgeting, institutional environment of the firm.

3717 Advanced Business Finance (3) Prereq: Fin. 3715. Case studies of critical aspects of financial decision-making introduced in Fin. 3715; topics typically include mergers and acquisitions, leasing, venture capital, and strategies for survival and growth of small firms.

7632 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.

7633 Financial Markets (3) Markets for financial obligations of private and public sectors of the economy; flow-of-funds in the financial system; role of financial intermediation in savings and investment process; emphasis on nonbank financial intermediaries.

7710 Financial Management for Governments (3) Prereq: Acct. 4421 and QM 7024. Dynamic role of finance in government, stabilization effects, impacts on financial markets; role of financial management; analytic aspects of government accounts, essential concepts of financial management; sources of government funds; allocation of funds; debt management and management of financial assets.

7717 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 and other estimates needed for planning; cases in management of current assets and evaluation of capital assets.

7719 Advanced Financial Management (3) Prereq: Fin. 7717. Current state of the theory of business finance and critical evaluation of the theory’s 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.

7720 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. Topics may include liquidity management, leasing, takeovers, acquisition of venture capital, share repurchase, reorganizations, strategies for financial mobility.

7750 Seminar/Workshop in Finance (3) Prereq: Fin. 7719 and 7826. Primarily for doctoral students in business administration and economics. Theory of individual decision under conditions of uncertainty; portfolio theory; capital market models; investment and financing decisions of the firm; lectures and evaluation of recent papers and on-going research.


7850 Seminar/Workshop in Investments (3) Prereq: Fin. 7826. Continuation of Fin. 7826; appraisal of recent theoretical models of capital asset pricing, current state of empirical evidence on these models, and economics of securities transactions in efficient markets; assessment of traditional financial statement analysis, recent theories on the evaluation of financial information, and evidence on the usefulness of accounting numbers to investors; topics include time series behavior of corporate earnings, prediction of bankruptcy and bond ratings, relationship between market and accounting measures of risk.

7900 Individual Study in Finance (3) May be taken 3 times for credit. For students who wish in-depth study of a selected finance problem. Proposal outlining nature and objectives of a research project must be approved by department faculty prior to registration; written report of semester’s activities and findings required for credit.

8000 Thesis Research (1-9 per sem.)

8900 Predissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-9 per sem.)

FINE ARTS
(See School of Art, page 238.)

DEPARTMENT OF FOOD SCIENCE

ACTING HEAD: Rutledge, Professor
PROFESSORS: Grodner, Hoskins, Liuzzo, Meyers, Rao
ASSISTANT PROFESSOR: Biede

Food Science (FdSc)

1049 Introduction to Food Science (2) Basic concepts, scientific principles, and methods employed in selection, preparation, processing, preservation, distribution, and use of foods.

4001 Food Process Engineering (3) Prereq: consent of instructor. 3 hrs. lecture; problems. Chemical engineering principles applied to food processing; mass and energy balances in food processing, flow of fluid foods, heat measurement, transfer and control, unit operations in food processing, fermentation technology, and food process analysis; methods, materials, and equipment.

4043 Food Science (3) Prereq: Chem. 2060 or 2262 or consent of instructor. Physical, biochemical, and micro-biological properties of the important classes of food products related to handling, processing, and utilization of foods.

4044 Food Technology (3) Prereq: FdSc 4043 or consent of instructor. Materials and methods applicable to the food industries, with regard to additives, packaging, sanitation, and quality control.

4070 Food and Drug Laws, Standards, and Regulations (2) Prereq: consent of instructor. Federal, state, and city food and drug laws, and how they regulate manufacture, distribution, and use of foods and regulated products.

OFFICE: 111 Food Science Building
Food Preservation (3) Prereq: Chem. 2062 or equivalent, Mbio. 2051, and at least 3 sem. hrs. of credit in any food science course; or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Microbiology and biochemistry of food spoilage, engineering techniques of food preservation, and food plant sanitation; representative methods of food preservation.

Plant Metabolism (3) Prereq: Chem. 2062. Biochemistry of photosynthesis and synthesis and transformation of carbohydrates, fats, and proteins; their separation, and procedures for identification.

Marine Food Resources and Technology (3) Prereq: consent of instructor. Also offered as MrSc 4086. Development and utilization of food from the sea; impact of world fisheries, fisheries technology, and seaweed and algal extracts on food science and malnutrition problems; basic marine productivity in terms of food chain and microbial transformation processes and pollution.

Food Enzymes (3) Prereq: Chem. 2062 or equivalent, Mbio. 2051, and at least 3 sem. hrs. of credit in any food science course; or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Enzymatic reactions and problems occurring in foods during collection, manufacture, storage, and distribution; applications of enzymes for processing foods.

Food Industries Engineering (3) Prereq: A basic course in chemical engineering or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Also offered as ChE 4299. Engineering as applied to food manufacturing industries, with emphasis on selection and supply of raw materials, processing, plant design and equipment specifications, waste disposal, and safety.

Perspectives in Nutrition (1) History of development of nutrition as a science; current trends in nutritional research; emphasis on introduction to literature research in nutritional sciences.

Food Composition and Analysis (4) Prereq: FdSc 4043, 4044, Mbio. 4115, and either Chem. 2060 or 2262. 2 hrs. lecture; 6 hrs. lab. Principles of official and acceptable chemical, microbiological, and physical methods used in food analysis; these methods applied to examination of raw and processed foods.

Food Toxicology (4) Prereq: Mbio. 2051 and 4115, introductory food science, and consent of instructor. 3 hrs. lecture; 3 hrs. lab. Principles and processes of food spoilage and toxicology; types of food-borne infections and poisonings; natural food toxicants; toxicants of marine microbial origin; etiology of food-borne diseases; microbiological examination of foods, evaluation of food additives, and criteria of food protection.

Nutrient Availability in Processed Foods (3) Prereq: AnSc 4009. Chemical and physical factors and interrelationships which influence nutrient retention and availability in processed foods.

Synthetic Foods and Dietary Substitutes (4) Prereq: FdSc 4082 and 7007; or consent of instructor. 3 hrs. lecture; 3 hrs. lab. Current and future concepts of synthetic and unconventional foods; material sources, manufacture, nutritional evaluation, and acceptance.

Advanced Food Research (1-6 each) Prereq: consent of instructor. A maximum of 9 sem. hrs. of credit may be earned in this series. Research problems in food preservation; food fats and oils; food enzymes and additives; and marine food products.

Seminar in Food Science (3) Selected topics in the chemistry, biochemistry, and microbiology of foods and food products.

Seminar in Food Technology (3) Selected topics in the application of food science principles to the food industry.

Seminar in Nutrition (1) Same as AnSc 7094. May be taken twice for credit.

Thesis Research (1-9 per sem.)

Dissertation Research (1-9 per sem.)

DEPARTMENT OF FOREIGN LANGUAGES

ACTING CHAIRMAN: de Armas, Professor

PROFESSORS: Galler, Lozada, Lunardini, Newby, Redfern

ASSOCIATE PROFESSORS: Chumbley, Clarke, Falk, Hintze, Kirby, Parker, Poponjac, Roubey, Schurfranz, Vilas-Gil, Zebouni

ASSISTANT PROFESSORS: Biay, Branch, Brind’Amour, del Rio, Di Napoli, Johns, Kaszkurewicz, Kitchell, Lazzaro, Marshall, Thompson

INSTRUCTORS: Abed, Di Maio

Attention is directed to the general foreign language requirements in the various curricula of the College of Arts and Sciences. Although the basic foreign language requirements of those curricula must be satisfied in a single language, courses in other languages may be taken as electives.

A minimum of 32 semester hours in courses numbered above 2000 must be taken for a concentration in French, German, or Spanish including for French or Spanish, courses 2061, 2062, 2071, 2072; for German, courses 2061, 2062, 2083, 2084 (or 4021, 4022). A minimum of 30 semester hours is required for a concentration in Italian, Latin, or Russian. A minimum of 37 semester hours is required for a concentration in classical languages (combination of Latin and Greek).

Students concentrating in a foreign language are urged to elect: English 2020, 2022 (in lieu of 2025, 2027), Speech 4150, Greek 3025, and Latin 3026. Students planning to do graduate study in a modern romance language are advised to elect one or more courses in Latin.

A special curriculum leading to the B.A. degree with honors in foreign languages is offered. Details are available from the departmental office.
Classical Languages

Greek (Grek.)

1001 Elementary Greek (5) Readings to provide mastery of simple Greek prose; forms, vocabulary, syntax, and grammar.

2051 Intermediate Greek (5) A continuation of Greek 1001; readings of 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; includes both Greek and Latin works; emphasis on the nature and growth of this type of literature, its basic themes, the nature of a hero, and the possible relevance to the modern reader.

2092 Greek and Latin Word Study (3) No previous knowledge of Greek or Latin required; does not count toward degree credit for a major in classical languages or Latin. Entymology of common and scientific words derived from Greek and Latin; emphasis on medical terminology.

3025 Greek Literature in Translation (3) Taught in English; knowledge of Greek not required. Major literary works of ancient Greece from Homer through the 5th century B.C.

4023 Special Topics in Greek Poetry (3) May be taken twice for credit. Readings and studies in one or more of the following: Homer, Hesiod, Pindar, Greek lyric poetry, Aeschylus, Sophocles, Euripides, Aristophanes.

4024 Special Topics in Greek Prose (3) May be taken twice for credit. Readings and studies in one or more of the following: Herodotus, Thucydides, the Pre-Socratics, the orators, Plato, Aristotle.

4915 Independent Work (1) May be taken 3 times for credit. Readings in Greek literature directed by a senior faculty member; conferences, critical reports, term papers.

Hebrew (Hebr.)

4001-4002 Biblical Hebrew (3,3) Heb. 4001 is a prerequisite for Heb. 4002. Essentials of grammar, syntax, and vocabulary; readings of narrative portions of the Old Testament.

Latin (Latn.)

1001 Elementary Latin (5) Non-laboratory 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; increases vocabulary levels and completes introduction of basic Latin grammatical constructions.

2053 Intermediate Latin (3) Ability to read classical Latin advanced, through the non-laboratory comprehension approach, to include material of the difficulty of 1st century Latin poetry and prose.

2055 Vergil (3) A close reading of Aeneid, Books II and IV, to improve ability to read poetry of the Roman Golden Age; the work as poetry, with attention to meter, poetic vocabulary, image, presentation of character, and other features.

2063 Ovid (3) Offered alternate years with Latin 2073. Readings from the Art of Love, Amores, Metamorphoses, and exile poetry; attention to the dexterity of Ovid's verse and the entertaining picture of Roman social life.

2066 Cicero (3) Readings from the major speeches, letters, and philosophical works.

2073 Roman Historians (3) Offered alternate years with Latin 2063. Readings from Livy, Tacitus, and Suetonius; emphasis on the differing prose styles and philosophies of history of the authors.

2074 Latin Lyric Poets (3) The Carmina of Catullus, and the Odes and Epodes of Horace; includes the most important poets with attention to intensity of feeling and mastery of language and meter in a genre taken over from their Greek predecessors.

2090 Greek and Roman Mythology (3) Taught in English; knowledge of the Greek and Latin languages not required. Credit in this course not applicable to baccalaureate degree requirements in Latin or classical languages.

3026 Latin Literature in Translation (3) Taught in English; knowledge of the Latin language not required. Some of the major works of Latin literature from its beginnings through the 1st century A.D.

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 Latin 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 lexiconology 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; attention to both literary and historical significance.

4004 Roman Comedy (3) Reading of representative plays of Plautus and Terence, with attention to dramatic techniques and comic situations.

4006 Medieval and Renaissance Latin (3) Selected readings from the time of the Latin writers to Milton.

4007 Latin Prose Composition (3) Practice in writing Latin prose; emphasis on grammar and syntax of classical Latin, using Ciceronian prose style as the model.

4010 Survey of Latin Literature (3) Readings in all major Roman authors from the beginnings to Ammianus Marcellinus; supplementary readings in English in the literary, political, and social history of Rome.

4915 Independent Work (1) May be taken 3 times for credit. Readings in Latin literature directed by a senior faculty member; conferences, critical reports, term papers.

7960 Special Topics in Classical Literature (3) May be taken three times for credit when topics vary. Topics to be announced.

7971 to 7976 Seminar (3 each)
7971 Vergil
7973 Horace
7974 Lucretius
7975 Tacitus
7976 Silver Age Latin literature.

8000 Thesis Research (1-9 per sem.)

Modern Languages

In the beginning courses of modern foreign languages, emphasis is placed on the early development of skill in understanding and speaking. Extensive use is made of tape recordings in the Foreign Language Laboratory. French 1001, German 1001, or Spanish 1001 may not count toward satisfying the minimum requirements for concentration in those languages.

Natives of countries where French, German, Italian, Portuguese, or Spanish is the current and official language may not take for credit courses 1001, 2051, 2053, or 2055 in that language.

Honors classes are offered in French (French 2052, 2054, 2056) and in Spanish (Spanish 2052, 2054, 2056).

Chinese (Chin.)

1001 Introduction to Chinese (5) Spoken Chinese and character writing; drill in Chinese dialogs in the language laboratory.

1001 Elementary French (5) An oral approach, with a minimum of formal grammar; emphasis on conversation, supplemented by oral-aural drill in the language laboratory.

1020 French for Reading Knowledge (5) A specialized course intended to satisfy Graduate School’s foreign language reading requirement, 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.

2051 Intermediate French (5) An honors course, Fren. 2052, is also available. Oral approach to language, supplemented by aural-oral drill in the language laboratory; reading material of moderate difficulty.

2052 HONORS: Intermediate French (5) Same as Fren. 2051, with special honors emphasis for qualified students.

2053 Intermediate French (3) An honors course, Fren. 2054, is also available. Continued reading and oral work, vocabulary building, and review of the basic principles of grammar.

2054 HONORS: Intermediate French (3) Same as Fren. 2053, with special honors emphasis for qualified students.

2055 Readings in French Literature (3) An honors course, Fren. 2056, is also available. Emphasis on comprehension and oral and written expression in the language.

2056 HONORS: Readings in French Literature (3) Same as Fren. 2055, with special honors emphasis for qualified students.

2058 French Conversation for Non-native Speakers (3) Prereq: Fren. 2055, credit exam, or consent of instructor. Practice in speaking the language to develop fluency and increase vocabulary.

2061 Advanced French Grammar (3) Primarily for prospective teachers and students concentrating in French. French grammar and syntax.

2062 Advanced French Composition and Syntax (3) Prereq: Fren. 2061. Drill in original descriptive and narrative composition in the language with attention to style, syntax, idioms, and verb forms.
2071 Survey of French Literature (3) Development of French literature from its beginnings to the 18th century.

2072 Survey of French Literature (3) Continuation of French 2071; the main authors and literary movements from the 18th century to the present.

4001 History of the French Language (3) Development of French from its beginnings to the present; attention to formation of the modern language. Redfern

4002 Old French—I (3) Phonological development of the French language from Latin; beginning readings from major works, such as Marie de France, Chanson de Roland.

4003 Old French—II (3) Morphological development of the French language from Latin; continued readings from major works of the period, including Chanson de Roland, Crêtien de Troyes, Pèlerinage Charlemagne, lyric poetry, Aucassin et Nicolette.

4005 Advanced French Syntax and Stylistics (3) Syntactical structure of French, with attention to stylistic improvement of written and oral expression.

4011 Literature of the 17th Century (3) Nondramatic genres, as illustrated in the works of such writers as Malherbe, Descartes, Pascal, Mme. de la Fayette, LaFontaine, La Bruyère, La Rochefoucauld, Boileau, and Bossuet.

4012 Literature of the 17th Century (3) Dramatic work and technique of Corneille, Molière, Racine, and the most significant minor dramatists, with attention to development of dramatic theory. Roubev, Zebouni

4021 French Literature of the 18th Century (3) Principal dramatists, novelists, and poets from Lesage to André Chenier.

4022 French Literature of the 18th Century (3) French thought in the age of enlightenment as revealed in the works of the Encyclopédistes and the Philosophes.

4033 French Poetry of the 16th Century (3) Emphasis on Clément Marot, Pierre Ronsard and the Pléiade, Joachim Du Bellay and his Défense et illustration de la langue française; survey of other significant poets; the last Rhetoriqueurs, Marguerite de Navarre, Louise Labé, Maurice Scève, Etienne de la Boétie, Agrippa d’Aubigné, Mathurin Régnier.

4034 Prose of the 16th Century (3) From Rabelais’ Gargantua and Pantagruel to the Essais of Montaigne; the drama as illustrated in Etienne Jodelle, Robert Garnier, Pierre Larivéy; nondramatic authors (philosophers, moralists, satirists, etc.), notably Calvin, Bodin, Molinet, Lemarie de Belges, Gaguin, Etienne Pasquier, Honoré d’Urfé.

4054 The French Novel (3) The novel from the French Revolution to World War I; emphasis on key authors of the different literary movements. Chumbley

4055 French Poetry and Drama of the 19th Century (3) The theatre from Hernani to Pelléas; poetry of the romantic and symbolist movements; special attention to Baudelaire, Rimbaud, and Mallarmé. Chumbley

4062 French Literature of the 20th Century (3) The works of Proust, Gide, Valéry, Claudel, Romain, Giraudoix, Anouilh, Aragon, and other 20th-century leaders of French literary trends. Galler


4915 Independent Work (1) May be taken 3 times for credit. Readings in French literature directed by a senior faculty member; conferences, critical reports, term paper.

7003 Readings in Old French Literature (3) Wide readings in old French texts of the 12th, 13th, and 14th centuries. Brind’Amour.

7004 François Villon and His Age (2) 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. Brind’Amour.

7012 French Literature of the 16th Century (3) French literature from Rabelais to Malherbe.

7950 to 7953 Seminar: French Literature of the 20th Century (3 each) Not more than 6 sem. hrs. from this series may be counted for degree credit for the M.A. degree, and not more than 9 sem. hrs. may be counted for the Ph.D. To be offered as:

7950 Masters of the contemporary theater—Giraudoix, Cocteau, Anouilh, Montherlant. Galler

7951 Literary existentialism and the theater of the absurd. Galler

7952 Evolution of the novel in the 20th century. Galler

7953 Selected topics of 20th-century poetry.

7960 Special Topics in French Literature (3) May be repeated when topics vary for a maximum of 6 sem. hrs. of credit for the master’s degree and 9 sem. hrs. of credit for the doctorate. Topics to be announced.

7971 to 7974 Seminar (3 each) 7971 Early development of the French novel. Roubev

7972 Les Philosophes. Chumbley

7973 French romanticism. Zebouni

7974 French classicism. Zebouni

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

1020 German for Reading Knowledge (5) A specialized course intended to satisfy Graduate School’s foreign language reading requirement, but carrying no graduate credit.

German (Germ.)
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.

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 students concentrating in German or preparing to teach the language. Intensive course in German grammar.

2062 Advanced German Composition and Syntax (3) Prereq: Ger. 2061. Intensive practice to acquire correctness and fluency in both oral and written expression, as well as the ability to understand lectures in German. Bialy, Di Napoli

2075 German Civilization (3) German civilization from early Germanic times to the present.

2083 Survey of German Literature, 1830-1890 (3) Prereq: Ger. 2055 or equivalent. Bialy, Di Napoli, Newby

2084 Survey of German Literature, 1890-1950 (3) Prereq: Ger. 2055 or equivalent. An age of crisis. Bialy, Di Napoli, Newby

2090 Germanic Mythology (3) Taught in English; knowledge of German not required. Credit in this course not applicable to baccalaureate degree requirements in German. Germanic myths and legends; their manifestations in religion, literature, art, and music. Hintze

4001 History of the German Language (3) Position of German among the Indo-European languages, and development of German from the time of its first written records; a comparison of development of German to that of English; examination of illustrative passages in various Teutonic languages and dialects; etymological studies. Hintze

4002 German Phonetics (3) Analysis ofGerman phonetic principles with extensive practice and corrective drill in the language laboratory; teaching German pronunciation to English-speaking students. Hintze

4021, 4022 Survey of German Literature (3,3) German literature and literary history and criticism from the earliest times to the present. Hintze

4026 19th-Century German Drama (3) Newby

4027 Classical German Literature (3) German classicism, with special reference to Lessing, Goethe, and Schiller. Newby

4028 Goethe's Faust (3) Newby

4031 German Poetry (3) Lyric poetry, with emphasis on the period 1750-1925. Di Napoli

4032 The German Novel (3) History and development of the German novel; emphasis on structural and thematic analysis, with attention to 20th-century works. Di Napoli

4033 The German Novelle (3) History and theory of this genre with extensive readings illustrative of its stages of development from Goethe to Thomas Mann; attention to the novelle of the "poetic realists" of the late 19th century.

4041 Special Topics in Older Germanic Literature (3) May be taken twice for credit. Hintze

4042 Special Topics in 18th-Century German Literature (3) May be taken twice for credit. Newby

4043 Special Topics in 19th-Century German Literature (3) May be taken twice for credit. Di Napoli, Newby

4044 Special Topics in 20th-Century German Literature (3) May be taken twice for credit. Di Napoli, Newby

4061 The Romantic Movement in Germany (3) Newby

4067 20th-Century German Prose (3) Di Napoli, Newby

4068 20th-Century German Drama (3) Di Napoli, Newby

4081 Pre-20th Century German Literature in Translation (3) Not applicable toward a concentration in German; knowledge of German not required. May be taken twice for credit when subject matter varies. Masterpieces of German literature, from the medieval epic to 19th-century prose and drama.

4082 20th-Century German Literature in Translation (3) Not applicable toward a concentration in German; knowledge of German not required. Important works of contemporary German literature, chosen from the writings of such major writers as Thomas Mann, Kafka, Brecht, Duerrnatt, Boell, Grass, and others; emphasis will vary.

4915 Independent Work (1) May be taken 3 times for credit. Readings in German literature directed by a senior faculty member; conferences, critical reports, term paper. 7001 Middle High German (3) Hintze

7002 Middle High German Literature (3) Hintze

7011 German Literature of the 15th and 16th Centuries (3) Significant writings during the Renaissance and the Reformation from the Akermann aus Boehmen through Martin Luther to Fischart. Hintze

7901 to 7912 Seminar in German Literature (3 each)

7901 Büchner and Hebbel. Newby

7902 Rilke. Di Napoli

7903 Heine. Newby

7904 Old Norse literature. Hintze

7905 The Baroque. Di Napoli

7906 Expressionism. Newby

7907 Enlightenement. Di Napoli

7908 Turn of the century. Newby

7909 Hebbel. Newby

7910 Hauptmann. Di Napoli

7911 Dadaism. Newby

7912 Schiller's nondramatic works. Newby

7924 Seminar in German-American Literary Relations (3) Hintze
2051 to 7953 Seminar in German Literature of the Classical Period (3 each)
7951 Goethe. Newby
7952 Schiller. Di Napoli
7953 Henrich von Kleist and the minor dramatists of the classical period. Newby

Italian (Ital.)

1001 Elementary Italian (5) Oral approach, with a minimum of formal grammar; emphasis on conversation, supplemented by aural-oral drill in the language laboratory.

2051 Intermediate Italian (5) Oral approach, supplemented by aural-oral drill in the language laboratory; reading material of moderate difficulty.

2053 Intermediate Italian (3) 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 in the language.

2061 Advanced Italian Grammar (3) For students concentrating in Italian. Intensive study of Italian grammar and syntax.

2062 Advanced Italian Composition (3) Prereq: Ital. 2061. Drill in original descriptive and narrative composition in the language, with attention to style, syntax, idioms, and verb forms.

Portuguese (Port.)

1001 Elementary Portuguese (5) Oral approach, with a minimum of formal grammar; emphasis on conversation, supplemented by aural-oral drill in the language laboratory.

2051 Intermediate Portuguese (5) Oral approach, supplemented by aural-oral drill in the language laboratory; reading material of moderate difficulty.

2053 Intermediate Portuguese (3) Continued oral practice, reading, vocabulary building, and review of the basic principles of grammar.

2055 Readings in Portuguese and Brazilian Literature (3) 3 hrs. lecture; 2 hrs. lab.

4001, 4002 Portuguese Language and Literature (3,3) 3 hrs. lecture; 2 hrs. lab. For advanced students who have already attained competence in at least one other romance language. Phonemics, morphemics, syntax, and lexicology of Portuguese; readings from Luso-Brazilian writers.

Russian (Russ.)

1001 Elementary Russian (5) Pronunciation, oral-aural practice, elementary grammar, translation.

7971 to 7973 Seminar in Germanic Philology (3 each)
7971 Gothic. Hintze
7972 Old Norse. Hintze
7973 Old High German, with some attention to Old Saxon. Hintze

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)
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.

2061 Advanced Russian Grammar (3) Vocabulary building, dictation, and readings of modern Russian prose.

2062 Advanced Russian Composition (3) Drill in original composition—both oral and written—with attention to style, syntax, idioms, and inflections.

2071 Survey of Russian Literature (3) Russian literature from the beginning to the late 19th century.

2072 Survey of Russian Literature (3) Continuation of Russ. 2071; principal authors and genres of Russian literature from late 19th century to the present.

2075 Introduction to Russian Culture and Civilization (3) Not applicable toward a concentration in Russian language. Taught in English; knowledge of Russian not required. A team-taught course. Most important aspects of Russian culture and civilization: geography, history, religion, literature, music, art, architecture, and scientific and technological achievements of the Soviet Union.

4002 Russian Language: Phonetics and Phonemics (3) Phonologic elements of Russian; interrelation of consonants and vowels, syllabic division, and the 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) Not applicable toward a concentration 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) Not applicable toward a concentration in Russian; knowledge of Russian not required. Masterpieces of 20th-century Russian literature, pre- and post-Revolution, including the works of four Nobel Prize winners of literature: Bunin, Pasternak, Sholokhov, and Solzhenitsyn.

4915 Independent Work (1) May be taken 3 times for credit. Readings in Russian literature directed by a senior faculty member; conferences, critical reports, term paper.

7001 Slavonic Linguistics (3) Outstanding Slavists and their work; relation of Slavonic to Indo-European; comparative study of phonetics and morphology of Proto-Slavic, Old Church Slavonic, and modern Slavic languages.

7951, 7952 Seminar in Russian Literature (3 each)

7951 Literature of Old Russia.

7952 Soviet writers.

7971, 7972 Seminar in Slavonic Linguistics (3 each)

7971 Old Church Slavonic.

7972 History of the Russian language.

8000 Thesis Research (1-9 per sem.)

Spanish (Span.)

2053 Intermediate Spanish (3) 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. 2055. Does not count toward satisfying the foreign language requirement. Language practice to develop fluency and conversational skills.
4041 Advanced Spanish Grammar (3) For prospective teachers and students concentrating in Spanish. Intensive study of Spanish grammar and syntax. Kirby, Lozada

4062 Advanced Spanish Composition and Syntax (3) Prereq: Span. 2061. Drill in original descriptive and narrative composition; emphasis on style, syntax, idioms, and verb forms. Lozada, del Río

2071 Survey of Spanish Literature (3) Spanish literature from its beginning to the 18th century. Kirby, Lozada

2072 Survey of Spanish Literature (3) Continuation of Span. 2071; the main authors and literary movements from the 18th century to the present. Kirby, Vilas-Gil

2073 Advanced Readings on Spanish Civilization (3) Lectures and extensive readings on the ethnological, geographical, historical, political, economic, and sociological factors necessary for understanding Spanish literature. Vilas-Gil

2074 Advanced Readings on Hispanic-American Civilization (3) Parallels Span. 2073, but focuses on the Hispanic-American countries. Lozada

4020 Spanish Poetry of the Golden Age (3) Spanish poetry from the mid-16th century to the close of the Golden Age, with attention to the mystics, the culteranistas and conceptistas and to other satiric, epic, and lyric poets of the Siglo de Oro. Lunardini

4021 Spanish Lyric Poetry of the 18th and 19th Centuries (3)

4031 The Spanish Novel of the 19th Century (3) Non-dramatic prose fiction of Spain in the 19th century. Kirby

4032 Spanish Drama of the 19th Century (3) Kirby

4041 Spanish-American Literature (3) Spanish-American literature from the early chronicles through the Romantic period. Lozada, del Río

4042 Spanish-American Literature (3) Prereq: Span. 4041 or equivalent. Spanish-American literature from the 19th century to the present.

4051 Spanish Prose of the Golden Age (3) Prose fiction of the Siglo de Oro—picturesque, pastoral, and historical, culminating in Cervantes; consideration given mystic prose and the early historians of the Indies. de Armas

4052 Dramatic Literature of the Golden Age (3) The Spanish comedia; readings from the works of Lope de Vega, Calderón de la Barca, Rojas Zorrila, Tirso de Molina, and Ruiz de Alarcón. de Armas

4061 The Generation of 1898 (3) Principal writers of the Generación del 98 in the fields of poetry, the novel, the stage, and criticism. Kirby

4062 Spanish Literature of the 20th Century (3) Poetry, drama, and prose fiction in Spain from the Generation of 1898 to the contemporary period. Vilas-Gil

4081 Modern Spanish Prose Fiction in Translation (3) Not applicable toward a concentration 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 Golden Age to the present; includes The Life of Lazarillo de Tormes and works by Cervantes, Pérez Galdós, Unamuno, Valle-Inclán, Pérez de Ayala, Cela, Lafont, and Gironella.

4082 Modern Spanish-American Prose Fiction in Translation (3) Not applicable toward a concentration in Spanish. Taught in English; knowledge of Spanish not required. Selected outstanding Spanish-American prose works by Gracia Márquez, Cortázar, Fuentes, Carpenter, and Borges.

4602 Spanish Phonetics (3) Spanish phonetic systems; corrective and fluency drills in the language laboratory; attention to problems of teaching Spanish pronunciation to English-speaking students. Parker

4603 Applied Spanish Linguistics (2) Prereq: Span. 2061. Structure of the Spanish language and its application in the classroom. Parker

4915 Independent Work (1) May be taken 3 times for credit. Readings in Spanish literature directed by a senior faculty member; conferences, critical reports, term paper. Parker

7001 Old Spanish (3) Phonological development of the Spanish language from Latin; lectures and selected readings. Thompson

7002 Old Spanish Literature (3) Early literary works; El poema del Cid, El libro de Apolonio, Berceo. Thompson

7003 Readings in Old Spanish Literature (3) Spanish literature of the 13th, 14th, and 15th centuries. Parker

7004 Spanish Literature of the Renaissance (3) Literature of Spain from the time of Fernando and Isabel through the reign of Carlos V; La Celestina, the chivalric and sentimental novel, nonfictional humanistic prose, the Italianate school of poetry, and early development of the drama. Lunardini

7023 Spanish Literature of the 18th Century (3) Overview of literature and thought of the period; readings in drama, poetry, essay, and novel.

7941 to 7945 Seminar in Spanish-American Literature (3 each)

7941 Colonial literature. Lozada

7942 Romanticism and realism-naturalism. Lozada

7943 Modernism. Lozada

7944 Poetry of the 20th century. Lozada

7945 20th-century prose. del Río

7952 to 7955 Seminar in Golden Age Drama (3 each)

7952 Spanish dramatists before Lope de Vega. Lunardini

7953 Lope de Vega. de Armas

7954 Tirso de Molina, Alarcón, and other contemporaries of Lope. de Armas

7955 Calderón and his contemporaries. de Armas

7960 Special Topics in Language and Peninsular and Spanish-American Literature (3) When topics vary, may be repeated for credit for a maximum of 6 sem. hrs. for the master's degree and 9 sem. hrs. for the doctorate. Topics to be announced.
Forestry and Wildlife Management

7962 to 7964 Seminar in Spanish (Peninsular) Literature of the 20th Century (3 each)
7962 Drama. Vilas-Gil
7963 Nondramatic prose. Vilas-Gil
7964 Poetry. Vilas-Gil

7971 to 7974 Seminar in Spanish Novel (3 each)
7971 Cervantes. de Armas
7972 Idealistic prose of the 16th and 17th centuries. de Armas

7973 Realistic prose of the 16th and 17th centuries.
7974 19th-century realism and the Generation of 1898. Kirby

8000 Thesis Research (1-9 per sem.)
9000 Dissertation Research (1-9 per sem.)

Romance Languages (RLan)

(See also French 4001, 4002, 4003, 4005, 4602, 4603, 7003; German 4001, 4002, 7001, 7002, 7971, 7972, 7973; Italian 7971; Latin 4006; Portuguese 7971; Russian 4002, 7001, 7971, 7972; Spanish 4602, 4603, 7001, 7002, 7003.)

2053 Cajun French—1 (3) Prereq: Fren. 1001 and 2051. Either this course or Fren. 2053 may be counted toward the foreign language requirement, but not both. Introduction to the French of Louisiana; its historical and cultural context; emphasis on the spoken language.

4064 Pidgin and Creole Languages (3) See Anth. 4064.

7021 Introduction to Romance Bibliography and Methods of Research (1) Recommended for M.A. degree candidates majoring in French or Spanish.

7025 Language Analysis (3) 3 hrs. lecture; 4 hrs. lab. Phonemics, morphemics, and syntax, with particular reference to Romance languages. Parker

7052 General Romance Philology (3) Comparative diachronic study of Romance languages. Thompson

7926, 7927 Seminar in Language Analysis (3,3) Specific languages to be announced. Synchronic study of non-Romance languages: Arabic, Hebrew, Hindi, Caribbean Creole, etc.

7960 Special Topics in Romance Philology (3) When topics vary, may be repeated for credit for a maximum of 6 sem. hrs. for the master’s degree and 12 sem. hrs. for the doctorate. Topics to be announced.

7971 to 7975 Seminar in Romance Philology (3 each)
7971 Old Provençal. Scharffanz
7972 Middle Welsh. Scharffanz
7973 Old Catalan. Scharffanz
7974 Palaeography. Thompson
7975 Old Provençal texts. Scharffanz

7999 Independent Study (1-3) May be repeated for credit for a maximum of 3 sem. hrs. in a master’s program and 9 sem. hrs. in a doctoral program; not more than 3 sem. hrs. may be earned in one semester. Directed readings on an individual basis under the guidance of the graduate faculty.

8000 Thesis Research (1-9 per sem.)
9000 Dissertation Research (1-9 per sem.)

SCHOOL OF FORESTRY AND WILDLIFE MANAGEMENT

DIRECTOR: Hansbrough, Professor

PROFESSORS: Avault, Burns, Chabreck, Choong, Culley, Fogg, Glasgow, Linnartz

ASSOCIATE PROFESSORS: Hamilton, Hu, Marlin, Noble, Shilling, Truesdale

ASSISTANT PROFESSORS: Chambers, Conner, Toliver

FORESTRY (For.)

1001 Conservation of Forest Resources (2) Resources of forest and range land, including wood, wildlife, recreation, forage, and water; techniques of multiple-use management of forest lands.

2001 Dendrology (2) 1 hr. lecture; 3 hrs. lab. Transportation fee. Principal trees of the U.S.; their identification, classification, nomenclature, and distribution.

2002 Dendrology (2) Prereq: For. 2001 or consent of instructor. 1 hr. lecture; 2 hrs. lab. Continuation of For. 2001.

2011 Field Techniques and Instrumentation (1) 2 hrs. lab. Various tools, instruments, and techniques used by foresters in the field.

2043 Wood Technology and Identification (3) 2 hrs. lecture; 3 hrs. lab. Structure and identification of wood; basic physical properties, defects, and uses of wood.

2061 Forest Ecology (3) Prereq: Botry. 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. Basic ecological relationships of trees, forest communities, and forest ecosystems including principles of establishment, competition, succession, and productivity fundamental to the multi-purpose use of forest lands.

3002 Silviculture (4) Prereq: For. 2011 and 2061; or consent of instructor. 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 (4) Prereq: Math 1022, 1031, and ExSt 2095. 3 hrs. lecture; 3 hrs. lab. Transportation fee. Basic 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; and statistical inference.


3051 Farm Forestry (2) 1 hr. lecture; 3 hrs. lab. Not available for degree credit for students majoring in forestry. Transportation fee. Protection and management of farm woodlands.

4021 Recreation in the Forest Environment (3) 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) Prereq: For. 4038; or For. 1001 and 4039.

4032 Forest Fire Protection and Use (3) Prereq: For. 3033. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Forest fire control and use; emphasis on southern forests.

4033 Management of Hardwoods (3) Prereq: For. 3002. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Measurement, reproduction, and management of hardwoods.

4034 Harvesting Timber Crops (3) Prereq: For. 3002. 3 hrs. lecture; occasional field trips to nearby logging operations. Transportation fee. Planning and administration of timber harvest; equipment choice, methods of planning, and operational techniques involved in movement of timber products; time and motion studies.

4035 Wildlife and Range Management in the Forest (2) Prereq: For. 3002 or consent of instructor. Principles of wildlife ecology; management and ecology of common regional forest mammals and birds; recreational leasing of forest land; grazing livestock in the forest; current forest environment problems.

4036 Forest Management (3) Prereq: For. 3033. 2 hrs. lecture; 2 hrs. lab. Principles of forest management, including multiple-use management; emphasis on effect of alternative methods of silviculture treatments on forest regulation; effect of site on yield and rotation; problems in forest regulation.

4037 Forest Resources Administration (2) Prereq: For. 3033. 1 hr. lecture; 3 hrs. lab. Transportation fee. Administrative functions of the forest or park manager; alternative forms of administering organization, forest income taxes, contracts, leases, records, and land-holding problems.

4038 Forest Economics (3) Prereq: Econ. 2030 or AgEc 2075, and For. 3033; or consent of instructor. Economic theory applied to forest resources and their utilization; marketing forest products; economic alternatives in forest land-use policies and practices.

4039 Forest Policy (3) Prereq: For. 3033 or consent of instructor. 3 hrs. lecture/proseminar-type discussion. History of forestry and forest legislation; development and evaluation of forest policies; current issues in forest policy.

4044 Mechanical and Physical Properties of Wood (3) Prereq: For. 2043 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Offered alternate years. Standard laboratory testing procedures, basic strength determination, working stresses, and timber design.

4045 Design and Control of Wood-Using Processes (3) Prereq: For. 2043. Offered alternate years. Relationship of basic physical properties of wood to utilization processes involving machining, gluing, and finishing.

4046 Chemical Properties of Wood (4) Prereq: For. 2043; and either Chem. 2060 or 2262. 3 hrs. lecture; 3 hrs. lab. Offered alternate years. Chemistry of wood, cellulose, lignin, and extraneous materials in wood and bark; chemical utilization and modification of wood.

4047 Seasoning and Preservation (4) Prereq: For. 2043 or consent of instructor. 3 hrs. lecture; 3 hrs. lab. Offered alternate years. Principles of lumber drying and wood preservation; economics of the treating industry.

4048 Forest Products (2) Prereq: For. 2043. Manufacture and use of forest products.

4061 Selected or Assigned Forestry Problem (1-4) May be repeated for credit for a maximum of 6 sem. hrs.

4064 Forest Tree Improvement (3) Prereq: For. 3002, and either Zool. 2153 or Agri. 2072; or consent of instructor. Genetic bases of variation in natural populations of forest trees; principles of utilizing this variation to obtain genetically improved trees for reforestation; techniques of genetic selection, breeding, progeny testing, tree introduction, and provenance testing.

7001 Research Methodology (3) Also offered as Wild. 7001. Planning, conducting, and reporting of research in the renewable natural resources.

7002 Advanced Silviculture of Southern Forests (3) 3 hrs. lecture; occasional field trips. Offered alternate years. Transportation fee.

7003 Advanced Forest Soils (3) Prereq: Agro. 2051 or equivalent. 2 hrs. lecture; 3 hrs. lab. Offered alternate years. Transportation fee.

7004 Forest Ecophysiology (4) Prereq: PlPa 3060 and For. 2061; or equivalents. 3 hrs. lecture; 3 hrs. lab. Offered odd-numbered years. Whole-plant physiological responses which affect survival, growth, and reproduction of forest trees and other woody plants; evaluation of the effects of various forest site factors on the physiological processes affecting survival, growth, and yield of trees; interpretation and investigation of the response of trees to environmental stresses.

7041 Advanced Wood Science (4) Prereq: For. 2043. 3 hrs. lecture; 3 hrs. lab. Offered alternate years. Topics in wood science, including review of selected literature: anatomical, physical, and chemical properties of wood, with emphasis on wood products.

7071 Graduate Seminar in Forestry (1) May be taken 3 times for credit. Pass-fail grading.

7072 Seminar in Industrial Forestry (3) Prereq: consent of instructor.

8000 Thesis Research (1-9 per sem.) Pass-fail grading.
8000 Research Problems in Forestry (1-3) May be repeated for credit. Pass-fail grading.

4010 Ecology and Management of Fur Animals (2)
Ecology, management, life history, and anatomy of fur animals; fur marketing.

4011 Wildlife Management Techniques—I (3) 2 hrs. lecture; 3 hrs. lab. Transportation fee. Wildlife literature sources; age and sex determination, food habit analysis, and post-mortem examination; wildlife research equipment.

4012 Wildlife Management Techniques—II (2) Prereq: Wild. 4011 or consent of instructor. 1 hr. lecture; 3 hrs. lab. Transportation fee. Habitat mapping, analysis and evaluation; wildlife capture and marking techniques; population: size estimation, analysis, and evaluation.

4020 Taxonomy and Ecology of Aquatic Plants (3) See Bot. 4020.

4021 Limnology (3) 2 hrs. lecture; 3 hrs. lab. Biological, chemical, and physical principles in fresh water.

4022 Principles of Aquaculture (3) 2 hrs. lecture; 2 hrs. lab. Transportation fee. Basic principles underlying aquaculture of fish, crustaceans, and mollusks.

4061 Selected or Assigned Wildlife Problem (1-4) May be repeated for credit for a maximum of 6 sem. hrs.

7001 Research Methodology (3) See For. 7001.

7010 Ecology and Management of Birds and Small Mammals (3) 2 hrs. lecture; 3 hrs. lab. Transportation fee. Ecology and management of birds and small mammals of North America; emphasis on upland game species indigenous to the southeastern U.S.

7011 Ecology and Management of Large Mammals (3) 2 hrs. lecture; 3 hrs. lab. Transportation fee. Management and ecology of large mammals of North America; emphasis on game species indigenous to the southeastern U.S.

7012 Ecology and Management of Waterfowl (3) 2 hrs. lecture; 3 hrs. lab. Transportation fee. Waterfowl behavior; descriptions of breeding and wintering habitat; habitat and population management; descriptions of associate game species.

7013 Wildlife Population Dynamics (3) 2 hrs. lecture; 2 hrs. lab. Theories of population growth and regulation, population interaction, life tables, mortality rate calculation; band data analysis; population modeling.

7020 Fish Parasites and Diseases (2) 1 hr. lecture; 2 hrs. lab. Offered in alternate years. Identification and control of fish parasites and diseases.

7021 Fishery Research Techniques (2) 1 hr. lecture; 3 hrs. lab.

7022 Water Pollution Biology (3) Prereq: Wild. 4021 or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Transportation fee. Biological and ecological characteristics of polluted waters; effects of pollution on fish and other aquatic organisms.

7023 Fisheries Hydrography (3) 3 hrs. lecture; occasional extended field trips. Offered in alternate years. Transportation fee. Basic ecological aspects of the marine environment and their relevance to oceanic fisheries.

7024 Shellfisheries Biology (3) Prereq: Zool. 4154 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. with extended field trips. Offered in alternate years. Transportation fee. Biology and ecology of mollusks and crustaceans; emphasis on species of commercial importance.

7025 Advanced Aquaculture (3) Prereq: Wild. 4022 or equivalent. 4 hrs. lecture; 6 hrs. lab with occasional extended field trips. Offered summer only. Transportation fee. Aquaculture of fish, crustaceans, and mollusks.

7070 Seminar (1) May be repeated for credit. Topics of current interest in wildlife management and fisheries biology.

8000 Thesis Research (1-9 per sem.) Pass-fail grading.

8900 Research Problems in Wildlife (1-3) May be repeated for credit. Pass-fail grading.

FRENCH
(See Department of Foreign Languages, page 281.)

FRESHMAN ORIENTATION
(See Academic Orientation, page 225.)

SCHOOL OF GEO SCIENCE

OFFICE: 331 Geology Building

Department of Geography and Anthropology

OFFICE: 227 Geology Building

DIRECTOR: Ferrell, Professor
INSTRUCTORS: Nelson, Nichols
CHAIRMAN: Muller, Professor
BOYD PROFESSOR: Walker
PROFESSORS: Hilliard, Newton, Richardson, Vermeer
ASSOCIATE PROFESSORS: Chardon, Davidson, Kesel, Khorram
ASSISTANT PROFESSORS: Edwards, Goad, Larimore, Neuman, Rathburn, Wiseman
Geography (Geog.)

Students concentrating in geography may enter either the Bachelor of Arts or Bachelor of Science curriculum within the College of Arts and Sciences. Normally, those students who are interested in physical geography will enter the Bachelor of Science program, and those who are interested in cultural geography will 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 concentration in geography must complete a core curriculum consisting of Geog. 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 hours in geography, with 9 hours selected from Geography 4019, 4039, 4040, 4041, and 4045; 6 hours selected from Geography 4012, 4060, 4070, 4073, and 4077; and 3 hours selected from Geography 4001, 4031, 4032, 4050, 4052, and Anthropology 4051.

Candidates for the Bachelor of Science degree must complete, in addition to the core curriculum, not less than 18 hours in geography, with 9 hours selected from Geography 4020, 4039, 4040, 4041, and 4045; and 9 hours selected from Geography 4013, 4014, 4021, 4022, 4028, 4029, and 4082.

Students may elect to modify the curriculum to fit specific needs, but this must be done in consultation with the departmental adviser. Special emphases are offered in cartography, Latin America, coastal environments, environmental resources, and the tropics.

Students concentrating in geography must pay a field service fee of $20 per semester for undergraduate majors and $25 per semester for graduate majors. Students not concentrating 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.

Honors courses offered in geography are Geog. 1002, 1004, and 4999. Geology 3001 and 4031 may be taken for elective geography credit.

1001, 1003 Human Geography (3,3) Courses need not be taken in numerical order. Credit will not be given for both these courses and Geog. 2062. Honors courses, Geog. 1002 and 1004, are also available. 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.

Chardon, Davidson, Hilliard, Newton, Vermeer

1002, 1004 HONORS: Human Geography (3,3) Same as Geog. 1001 and 1003, with special honors emphasis for qualified students.


2050 Physical Geography: The Atmosphere (3) Credit will not be given for both this course and Geog. 2061. Physical principles, processes, and operations in the atmosphere; world climatic realms.

Vermeer

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.

Vermeer

2052 Geography of North America (3) Credit will not be given for both this course and Geog. 4052. Physical and cultural analysis.

Davidson, Hilliard

2055 Map Reading (3) 2 hrs. lecture; 2 hrs. lab. Nature and interpretation of topographic maps.

Kesel

2061 Physical Geography (3) Geog. 2050 or 2051 may be substituted. Credit will not be given for both this course and Geog. 2050 and 2051. For students in elementary education. Nature of the physical landscape.

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. For students in elementary education. Nature of the cultural landscape.

4001 Geography of Louisiana (3) Natural and cultural elements and regions.

Newton

4012 Elements of Cultural Geography (3) Culturally oriented proseminar in American geographical thought during the present century.

Newton

4013 Meteorology (3) Temporal and areal variations in composition and structure of the atmosphere; meteorological instruments and measurements.

Muller

4014 Climatology (3) Climatic phenomena; methods used in development of regional climatology.

Muller

4015 Microclimatology (3) Prereq: Geog. 4013 or 4014 or consent of instructor. The 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 utilization.

Muller

4016 Methods of Climatological Analysis (2) Prereq: Geog. 4013 and 4014; or consent of instructor. 1 hr. lecture; 2 hrs. lab. Modern approaches to analysis and interpretation of climatological data and application to physical and human problems.

Muller

4019 Aerial Photo Interpretation (3) 2 hrs. lecture; 2 hrs. lab. Methods of studying cultural elements of the landscape from aerial photographs.

Khorrani

4020 Aerial Photo Interpretation (3) Prereq: Geol. 1001. 2 hrs. lecture; 2 hrs. lab. May be taken for elective geology credit. Analysis and mapping of geologic structure, lithology, and landforms from aerial photographs.

Khorrani

4021 Alluvial Morphology (3) Prereq: Geol. 1001. 1003. May be taken for elective geology credit. Processes that originate and change land and hydrographic forms of alluvial surfaces; particular emphasis on Louisiana. Kesel
4022 Geomorphology (3) Prereq: Geol. 1001, 1003. May be taken for elective geology credit. Basic principles underlying the study of land forms; emphasis on processes shaping the natural landscape. Kesel

4023 Coastal Morphology and Processes (3) Prereq: consent of instructor. Also offered as Geol. 4023. Coastal areas and processes; morphology, sedimentary properties, nearshore oceanographic characteristics, and beach and coast-line development.

4028 The Ocean World (3) Characterization and appraisal of physical and biological phenomena of marine and coastal environments. Walker

4029 Marine and Coastal Resources (3) Factors affecting human use of the oceans and coasts; areal, temporal, cultural, and economic controls affecting marine resource exploitation. Walker

4031 Spanish America (3) Physical and cultural geography of Mexico, Central America, and Spanish South America. Davidson

4032 Brazil and the Caribbean Area (3) Physical and cultural geography of Brazil, the Guianas, and the Caribbean Islands. Chardon

4039 Cartographic Drafting and Graphic Presentation (3) 2 hrs. lecture; 2 hrs. lab. Use of basic drafting instruments and techniques necessary for preparation of maps and other scientific graphics. Larimore

4040 Advanced Cartography (3) Prereq: Geog. 4039 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Cartographic history; map projection; advanced techniques of data presentation and cartographic production. Larimore

4041 Field Methods in Geography (3) Prereq: consent of instructor. 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. Hilliard, Kesel, Newton, Wiseman

4043 Computer Cartography (3) 2 hrs. lecture; 2 hrs. lab. Use of certain prepared computer mapping programs (SYMAP, SYMVU, CALFORM, GRIDS, GEOMAP, CAM, MAPPER, CONTOUR, TREND, and DOTTER), and techniques necessary to prepare scientific graphics using these programs. Larimore

4045 Environmental Remote Sensing (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Basic energy and matter relationships; working principles of the primary remote sensors; environment studied via remote sensing techniques. Khorram

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. Hilliard

4052 Anglo-America (3) Credit will not be given for both this course and Geog. 2052. Physical and cultural geography of Anglo-America. Walker

4060 Political Landscapes (3) Systematic, cultural-political geography, emphasizing both technical and philo-sophical aspects; general and comparative in scope, with emphasis on American political landscapes; territorial political entities (cadastral, civil national, imperial), role of the lands and seas, nature and objects of war, impacts of political entities on the landscape. Newton

4070 Environmental Conservation (3) Factors governing human use of the earth and its resources. Wiseman

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. Chardon

4077 Economic Geography (3) Location, characteristics, and relationships of primary, secondary, and tertiary economic activity; measurements and theories of location of economic endeavor. Chardon

4082 Biogeography (3) Different approaches to description and interpretation of plant and soil distribution patterns. Wiseman

4083 Quaternary Paleoecology (3) Prereq: Geog. 4082 and a basic course in historical geography, or equivalents. 2 hrs. lecture; 4 hrs. lab. Theory and method of reconstructing climatic, biological, geological, and human history during the Pleistocene and Holocene periods. Wiseman

4085 Tropical and Subtropical Biogeography (3) Prereq: Geog. 4082 or consent of instructor. 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. Wiseman

4090 The History of Geography (3) 3 hrs. lecture and proseminar 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) 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.
Anthropology (Anth.)

Because anthropology is a broad study of mankind, students concentrating in this field are urged to explore courses in the related sciences, social sciences, and humanities. Departmental course requirements are limited to the completion of Anthropology 1001 and 1003 and course 2055 in a foreign language. Through consultation with their departmental adviser, students design a specific program to fit their needs.

Students concentrating in anthropology must pay a field service fee each semester, at the rate of $20 per semester for undergraduate majors and $25 per semester for graduate majors. Students scheduling courses requiring field service who are not concentrating in geography or anthropology will be assessed a pro rata part of the above amount as determined by the department chairman.

Honors courses offered are Anthropology 1002, 1004, and 4999.

1001 General Anthropology (3) An honors course, Anth. 1002, is also available. Origin and evolution of people, the modern races, prehistory of mankind, and linguistic classification. Edwards, Goad, Rathburn

1002 HONORS: General Anthropology (3) Same as Anth. 1001, with special honors emphasis for qualified students.

1003 Culture Growth (3) An honors course, Anth. 1004, is also available. Nature of culture; social organization; primitive religion, magic, and arts. Edwards, Goad, Rathburn

1004 HONORS: Culture Growth (3) Same as Anth. 1003, with special honors emphasis for qualified students.

1101 The Ascent of Man (2) 15 televised lectures with organized readings and tests. Offered via PBS broadcasts. Prehistory of man; later growth to modern civilization.

2093 Southern Folklore (3) The oral literature and folk customs of Louisiana and the southern U.S. from the standpoint of anthropological theory; themes and genres of folklore, structure of folktales and folksongs, meaning of the folklore setting, sociolinguistic aspects of oral transmission, and functions of folklore in folk, creole, peasant, and complex society. Edwards

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. Goad

4015 North American Archaeology (3) Offered in alternate years. Also offered as MrSc 7246. Seminar on the nature of coastal and estuarine resources and their perception, evaluation, and exploitation by people.

4016 Old World Archaeology (3) Cultural developments in prehistory ranging from the earliest evidence of humans to the foundations of civilization. Goad

4023 Latin American Cultures (3) Ethnological survey of American Indians, Negro, Creole, and recent European-Asiatic groups in contemporary Latin America; analysis of their basic symbol systems. Richardson

4025 Peoples and Cultures of Europe (3) An 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. Rathburn

4031 Comparative Religions (3) Offered in alternate years. Religious systems in different levels of sociocultural evolution. Richardson

4040 Physical Anthropology (3) Prereq: Anth. 1001; Biol. 1001, 1002; or Zool. 1001, 1002. Human evolution, ecological adaptation, and genetic diversity. Edwards

4051 Africa (3) Races and cultures of Negroid Africa. Vermeulen

4053 Afro-American Cultures (3) Subcultures of Negroes in the new world; culture theory applied to origins, development, and present distinctiveness of these cultures. Edwards

4060 Language and Culture (3) Relationship between various aspects of language and culture. Rathburn

4062 Survey of Linguistic Theories (3) 2 hrs. lecture; 1 hr. conference. Various linguistic theories developed in Europe and the U.S. Rathburn

4063 Human Ecology (3) See Soc. 4711.
4064 Prereq: Anth. 4060 or 4062, or consent of instructor. Also offered as R Lay 4064. Referral study of new languages which emerge in contact situations, particularly among peoples of different race and culture; languages of the slave trade and European commercial expansion from the 15th through 18th centuries. Edwards.

4078 Prereq: Anth. 1001 and consent of instructor. 1 hr. lecture: 4 hrs. lab. Techniques of excavation, recording, laboratory analysis, and care of archaeological materials. Good, Neman.

4081 Prerequisites: Man’s biological and cultural evolution utilizing evidence from fossil records, archaeology, and ethnography. Richardson.

4082 Prerequisites: Students present papers based on their own field experience. Theories and techniques of ethnography; emphasis on utilization of informants. Richardson.

4085 Prerequisites: Major theories in all branches of anthropology; emphasis on cultural and social anthropology. Edwards, Richardson.

4090 Prerequisites: Students present papers based on their own field experience. Theories and techniques of ethnography; emphasis on utilization of informants. Edwards, Richardson.

4098 Prerequisites: Students present papers based on their own field experience. Theories and techniques of ethnography; emphasis on utilization of informants. Edwards, Richardson.

5000 Independent Reading and Research in Anthropology (1-6) May be repeated for credit; total credit earned in Anth. 4998 and 7999 cannot exceed 6 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.

7901 Introduction to Graduate Study (1) Same as Geog. 7901. Techniques and methods of their profession for incoming graduate students.

7906 Nature of Culture (3)

7909 Selected Topics in Anthropology (3)

7954 Prerequisites: Anthropological assumptions of theory and technique; problems generated by applying these assumptions to contemporary Africa, India, Latin America, and Anglo-America.

7962 Prerequisites: At least one upper-division or graduate linguistics course; 2 hrs. lecture: 1 hr. individual consultation. Recording and analyzing a living non-European language and using a native-speaking informant.

7999 Prerequisites: Consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs.; total credit earned in Anth. 4998 and 7999 cannot exceed 6 sem. hrs. Supervised field work in anthropology.

8000 Thesis Research (1-9 per sem.)

Department of Geology

CHAIRMAN: Ferrell, Professor

PROFESSORS: Hanor, Hart, Kupfer, Lowe, Moore, Sen Gupta, van den Bold

ASSOCIATE PROFESSORS: Byerly, Pilger, Schiebout, Stueber

ASSISTANT PROFESSORS: Hickcox, Nummedal, Rovik

Geology (Geol.)

The curriculum for the professional degree of Bachelor of Science in Geology is outlined in detail in the section of this catalog entitled “College of Arts and Sciences” (see page 115). Students who select geology as a field of concentration for a nonprofessional degree must include in their curriculum Geology 1001, 1003, 1601, 1602, 2071, 2081, 2082, 2661, 2666, 3011*, 3666, 4031, 4041; and Math 1050. Students majoring in geology must pay a field service fee each semester at the rate of $15 per semester for undergraduate majors and $25 per semester for graduate majors. Students not majoring in geology who schedule field-service courses 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.

Honors courses offered in geology are Geology 1002 and 1004. Geography 2050, 4013, 4015, 4020, 4021, 4022, 4023, 4028, and 4045 may be taken for elective credit for the professional degree in geology as natural science rather than social science electives.

1001 General Geology: Physical (3) Credit will not be given for both this course and Geol. 3001. An honors course, Geol. 1002, is also available. Earth materials and land forms; 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) Prerequisites: 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.

*The year-course Geology 3011 plus 3012 (10 hrs.) will satisfy the requirement for a biological science.
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. Hanor, Moore

1006 Introduction to Computer Analysis in Geoscience (1) Prereq: Geol. 1001, 1003 or equivalents and consent of instructor. 2 hrs. lab. Role of computer systems in geological investigations; current computer use for automatic plotting, trend surface analysis, simulation studies, information storage and retrieval systems, and statistical analysis. Hart

1007 Geology of the National Parks (1) Prereq: Geol. 1001. May not be taken for credit toward the B.S. degree with a concentration in geology. National parks and other scenic areas used to illustrate basic geology concepts. Kupfer, staff

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. Kupfer, staff

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. Rovik

2001 World Energy Resources (3) Prereq: Geol. 1001. Also offered as Geog. 2001. Geological 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; and site inspection. Kupfer, staff

2003 Geology of the Grand Canyon (3) Prereq: Geol. 1001 and consent of instructor. 1 1/2 hrs. lecture; 10-day field trip to the Grand Canyon during spring vacation. Credit will not be given for both this course and Geol. 1003. Transportation fee. General principles of historical geology: regional geology of the Grand Canyon. Ferrell

2071 Elementary Structural Geology (3) Prereq: Geol. 1006 and 2661; or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Description, classification, illustration, and recognition of typical earth structures, especially folds, faults, and unconformities. Kupfer

2081 Mineralogy (4) Prereq: Chem. 1002. 3 hrs. lecture; 3 hrs. lab. Elementary crystallography, the general chemical and physical properties of minerals, and optical crystallography. Byerly, Steuber

2082 Mineralogy (4) Prereq: Geol. 2081. 3 hrs. lecture; 3 hrs. lab. X-ray crystallography, phase diagrams, and rock-forming minerals. Byerly, Steuber

2661 Graphic Methods and Map Interpretation (2) Prereq: Geol. 1001, 1003, 1601, and 1602. 1 hr. lecture; 3 hrs. lab. Orthographic and stereographic projections; interpretation of geologic and structure contour maps; three-dimensional geology. Kupfer

2666 Introductory Field Geology (1) Prereq: Geol. 1001 and 1003; or consent of instructor. Not open to students on scholastic probation. Saturdays, weekends, and/or vacation field trips to points of geologic interest. Students must keep Saturdays open for these trips. Transportation fee for nonmajors. Rovik

3001 Survey of Physical Geology (3) 2 hrs. lecture; 2 hrs. lab.; or 3 hrs. lecture. Credit will not be given for both this course and Geol. 1001. For students not majoring in geology. Emphasis on engineering aspects of physical geology and other phases of interest. Kupfer

3011 Paleozoology (5) Prereq: Geol. 1003 (waived for zoology majors). 3 hrs. lecture; 4 hrs. lab. Morphology, systematics, evolution, and ecology of invertebrate animals. Schiebout


3031 Sedimentary Geology for Petroleum Engineers (3) Prereq: Geol. 1001. Sediments and sedimentary rocks from the stand point of processes and products through time; the natural rock system. Moore

3666 Field Geology (6) Prereq: Geol. 2082, 2661, and 2666; or consent of instructor. Offered summer only; 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) Written reports required.

4001 Advanced Physical Geology (3) Byerly

4023 Coastal Morphology and Processes (3) See Geol. 4023. Nummedal

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. Lowe

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. Byerly

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. Ferrell

4051 Hydrogeology (3) Prereq: Geol. 1003 and Chem. 1002; or consent of instructor. Principles of ground-water hydrology, exploration, and development; subsurface disposal of fluid wastes; mine-water control; hydrochemical mining; engineering geology applications; hydrology of
deep sedimentary basins and their hydromorphic, geothermal, hydrochemical, and hydrocarbon regimes.

4062 Introductory Geophysics (3) Prereq: Geol. 2071 and Math 1052. Application of seismic refraction and reflection, gravity, and magnetic techniques to mineral exploration and to interpretation of the structure of the earth's crust; geophysical data processing. Pilger

4066 Plate Tectonics (3) Prereq: Geol. 2071. Basic and contemporary concepts of plate tectonics; geophysical observations and geologic implications. Pilger

4071 Advanced Structural Geology (3) Prereq: a 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. Kupfer

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 1050. 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. Hanor

4111 Vertebrate Paleontology (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Phylogenetic survey of fossil vertebrates; their origins and transitions; problems in vertebrate taphonomy, biostratigraphy, and fossil collection and preparation. Schiebout

4131 Basin Analysis (3) Prereq: Geol. 4031. Basic environments of sediment deposition considered by use of sedimentological models and their relationships within depositional basins; analysis of theoretical basin models and comparison with modern and ancient sedimentary basins. Moore

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. Hart

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; the Mississippi River delta compared to other modern and ancient deltas. Nummedal

4165 Subsurface Geology (3) Prereq: Geol. 1001, 1003, 1601, 1602; Geol. 2661 and PetE 4088 strongly recommended. 2 hrs. lecture; 5 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, temperature, fluid pressure and water salinity; analysis of fluid migration, oil and gas accumulation, and geothermal resources. Hart

4166 Petroleum Engineering Aspects of Subsurface Geology (3) See PetE 4053.

7041 Advanced Igneous and Metamorphic Petrology (3) Prereq: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Advanced topics in magmatism and metamorphism.

7042 Advanced Economic Geology (3) Prereq: consent of instructor. Offered in alternate years.

7043 Advanced Igneous Petrology (3) Prereq: Geol. 4041 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Offered in alternate years. Phase diagrams, magmatic origin of igneous rocks, and evolution of igneous provinces. Byerly

7044 Advanced Metamorphic Petrology (3) Prereq: Geol. 4041 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Facies concept, theoretical and field relations, textures, and their significance. Byerly

7081 Isotope Geochemistry (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab/demonstration. Stable isotope fractionation in natural systems; emphasis on oxygen, hydrogen, and carbon isotope-ratio variation in natural waters, carbonates, and silicates with application to the solution of petrologic problems. Stueber

7111 Advanced Micropaleontology (3) Prereq: consent of instructor. May be taken twice for credit. Advanced training in micropaleontology, as announced.

7113 Research in Foraminifera (3) Prereq: Geol. 3012. Minimum 5 hrs./wk. lecture, seminar, and supervised lab. Morphology and systematics. Sen Gupta

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 Paleocology (3) Prereq: Geol. 3011 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Offered in alternate years. History, techniques, and modern literature in paleocology including functional morphology, communities and community evolution, and the relationship between paleocology and continental drift. Schiebout

7116 Principles of Paleontologic Taxonomy (3) 2 hrs. lecture; 2 hrs. lab. Hart

7117 Biostratigraphy (3) Prereq: Geol. 3011 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Offered in alternate years. History of stratigraphic concepts; continental drift and correlation; problems in marine, terrestrial, and subsurface correlation; integration of new techniques such as magnetic stratigraphy. Schiebout

7118 Paleoprotistology (3) Biology, paleoecography, and biostratigraphy of the protists; emphasis on one or more of the algal divisions—Haptophyta (coccoliths and other calcareous phytoplankton), Pryrophyta (dinophyceans), and Bacillariophyta (diatoms and other siliceous phytoplankton)—their use in petroleum exploration and environmental analysis. Hart

7119 Paleopalynology (3) Taxonomy, paleogeography, and biostratigraphy of spores and other dispersed plant fragments found in sediments; their use in petroleum exploration and environmental analyses. Hart

7131 Petrology of Sandstones (3) 2 hrs. lecture; 3 hrs. lab. Petrology and petrography of terrigenous sandstones;
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.  

Lowe

7133 **Sedimentary Petrography of Carbonates** (3) 2 hrs. lecture; 3 hrs. lab. Comprehensive treatment of principles governing formation, deposition, and diagenesis of carbonate sediments and sedimentary rocks; lab stresses textural, fabric, and mineral relationships and interpretation of depositional environments and mineral paragenesis of ancient carbonate sequences.  

Moore

7134 **Clay Mineralogy** (3) 2 hrs. lecture; 3 hrs. lab/discussion. Mineralogy, geochemistry, and geology of clay minerals; argillaceous sediments and rocks.  

Ferrell

7162 **Paleozoic Stratigraphy** (3) Paleogeographic development of the earth during the Paleozoic Era; emphasis on global reconstructions, climates, and stratigraphy of major basins.

7163 **Mesozoic and Cenozoic Stratigraphy** (3) Paleogeographic 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 consent of instructor. 3 hrs. lecture/seminar. Offered in alternate years. Quantitative analysis of geochemical processes in marine systems.

7182 **Physical Geochemistry of Petrologic Systems** (3) Prereq: Geol. 4082 or consent of instructor. Applications of thermodynamics to high temperature-pressure systems.

7183 **Low-Temperature Physical Geochemistry** (3) Prereq: Geol. 4082 or consent of instructor. Development of quantitative techniques in thermodynamics, kinetics, and mass transport as applied to problems of weathering, transport, deposition, and diagenesis of sedimentary minerals and fluids.  

Hano

7666 **Gulf Coast Field Geology** (8) Prereq: Geol. 3666 or equivalent. Offered summer only; 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, 8-week field course. Pass-fail grading. Composes 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; practical laboratory exercises accompany lecture topics.  

Stueber

7701 **Electron Microscopy** (2) Same as Boty. 7701. ME 7701, Mbio. 7701, Zool. 7701. Transmission and scanning electron microscopy and x-ray analysis of biological and nonbiological materials; theory, operation, and application of the instruments.

Moore

7704 **Scanning Electron Microscopy Laboratory: Geologic Materials** (2) Prereq: credit or registration in Geol. 7701; or consent of instructor. 6 hrs. lab. Preparation of geological specimens for SEM observation; energy dispersive x-ray analysis; use of the JSM-2 scanning electron microscope.  

Moore

7901 **Seminar in Foreign Geologic Literature** (2) Translation and discussion of recent geological literature in French, German, or Spanish.

van den Bold

7909 **Geological Research: General** (1-6) Written reports required. 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) Written reports required.

7931 **Seminar in Geology: Sedimentology** (2) May be repeated for credit. Fall semester; carbonate sedimentology; spring semester: classic sedimentology and sedimentary environments.

7939 **Geological Research: Sedimentology** (1-6) Written reports required.

7941 **Seminar in Geology: Igneous and Metamorphic Petrology** (2) May be repeated for credit.

7949 **Geological Research: Igneous and Metamorphic Petrology** (1-6) Written reports required.

7961 **Seminar in Geology: Dimensional Geology** (2) May be repeated for credit.

7966 **Field Work** (1-9) Written reports required.

7969 **Geological Research: Dimensional Geology** (1-6) Written reports required.

7971 **Seminar in Tectonics** (3) Topics such as plate tectonics, diapirism, isostasy, and the tectonics of specific areas.  

Kupfer, Filger

7981 **Seminar in Geochemistry** (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, isotope geochemistry, and the geochemistry of carbonates.

7989 **Geological Research: Geochemistry and Mineralogy** (1-6) Written reports required.

8000 **Thesis Research** (1-9 per sem.)

9000 **Dissertation Research** (1-9 per sem.)

**GERMAN**

(See Department of Foreign Languages, page 282.)

**GREEK**

(See Department of Foreign Languages, page 280.)
DEPARTMENT OF HEALTH, PHYSICAL, AND RECREATION EDUCATION

CHAIRMAN: Thomas, Professor
PROFESSORS: Broadhead, Byrd, Fant, Nelson
ASSOCIATE PROFESSORS: Broussard, Gay, C. Hill, Lee, Life, Magill, Norckauer, Steben
ASSISTANT PROFESSORS: Cmiich, Denson, Hall, Harless, Stone, Thonsen, Worthy
INSTRUCTORS: Berg, Edmond, Henry, K. Hill, R. Hill, Pierce, Sciachetano, Stickles, Vega, Walkwitz

Office: 102 Gym-Auditorium

HEALTH, PHYSICAL, AND RECREATION EDUCATION (HP&RE)

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, physical education, recreation and dance. All activity courses are offered on a letter grade basis; however, a student may petition to receive a pass-fail grade.

Basic Activity Courses (Open to Both Men and Women)

Students in these classes must wear clothing suitable to the activity. A leotard is required for women who enroll in modern dance classes. Students in swimming classes furnish their own bathing suits.

1120 to 1156 Beginning Courses in Sports, Gymnastics, Aquatics, and Dance (1 each)
1120 Handball
1121 Fencing
1122 Wrestling
1123 Archery
1124 Tennis
1125 Golf
1126 Gymnastics
1127 Modern Dance
1128 Riflery
1129 Badminton
1130 Bowling
1131 Ballet
1132 Ballroom Dance
1133 Children’s Rhythms For students majoring in elementary grades, elementary grades and education of the mentally retarded, or health and physical education.
1134 International Folk Dance
1136 Swimming
1140 Scuba Diving Prereq: HP&RE 12.36 or consent of instructor.
1142 Conditioning Exercises
1145 Elementary Games Skills For students majoring in elementary grades, elementary grades and education of the mentally retarded, or health and physical education.
1146 Weightlifting
1147 Basic Movement for Elementary School Children For students majoring in elementary grades, elementary grades and education of the mentally retarded, or health and physical education.
1148 Pistol Marksmanship
1151 Racquetball
1152 Dance Theatre 4 hrs. lab. May be taken twice for credit. Admission by audition. Participation in the performing modern dance theatre.
1153 Jazz Dance
1154 Martial Arts
1155 Jogging
1156 Outdoor Living Skills American Red Cross Standard First Aid Certificate recommended.

1221 to 1255 Intermediate Courses in Sports, Gymnastics, Aquatics, and Dance (1 each)
1221 Fencing
1223 Archery
1224 Tennis
1225 Golf
1226 Gymnastics
1227 Modern Dance
1229 Badminton
1230 Bowling Prereq: men must have at least a 140 average; women, 130 average.
1231 Ballet
1236 Swimming
1246 Weightlifting
1255 Jogging Prereq: HP&RE 1155 or equivalent ability.

1324 to 1338 Advanced Courses in Sports, Gymnastics, Aquatics, and Dance (1 each)
1324 Tennis
1327 Modern Dance
1336 Swimming
1337 Advanced Lifesaving (1) Prereq: HP&RE 1236 and 1336, or consent of instructor.
1338 Water Safety Instructor’s Course (1) Prereq: valid Advanced Lifesaving Certificate and consent of instructor.

Professional Courses

1404 Orientation to Health and Physical Education (1) 3 hrs. lab. Must be taken during student’s first semester as a health and physical education major or minor. Pass-fail grading. Assessment and development of sports competencies and fitness.
1405 Track and Field (1) Prereq: credit or registration in HP&RE 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.
1406 Basketball (1) Prereq: credit or registration in HP&RE 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.
1407 Softball (1) Prereq: credit or registration in
2507 Methods and Materials in Physical Education for the Elementary School (2) Prereq: completion of two of the following: HP&RE 1133, 1145, 1147. 1 hr. lecture; 2 hrs. lab. For elementary teachers.

2508 Practicum in the Teaching of Sport and Dance Activities (1) Prereq: competency in the activity to be taught and consent of coordinator of undergraduate programs. 3 hrs. lab. May be repeated for credit when activity varies.

2511 Sports Officiating (2) Prereq: proficiency in sports indicated. 1 hr. lecture; 2 hrs. lab. Rules interpretation and techniques of officiating basketball, volleyball, and softball.

2513 Introduction to Motor Learning (3) 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, emotional, and psychosocial phenomena in motor learning and performance.

2515 The Coaching of Track and Field (2) Prereq: competency in track and field and consent of department head. 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) Prereq: competency in basketball and consent of department head. 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) Prereq: competency in baseball and softball and consent of department head. 1 hr. lecture; 2 hrs. lab. Principles and techniques of coaching baseball/softball; organization and administration of practice and various levels of competition.

2518 The Coaching of Volleyball (2) Prereq: competency in volleyball and consent of department head. 1 hr. lecture; 2 hrs. lab. Principles and techniques of coaching volleyball; organization and administration of practice and various levels of competition.

2519 The Coaching of Football (2) Prereq: competency in football and consent of department head. 1 hr. lecture; 2 hrs. lab. Principles and techniques of coaching football; organization and administration of practice and various levels of competition.

2520 The Coaching of Gymnastics (2) Prereq: competency in gymnastics and consent of department head. 1 hr. lecture; 2 hrs. lab. Principles and techniques of coaching gymnastics; organization and administration of practice and various levels of competition.

2521 The Coaching of Wrestling (2) Prereq: competency in wrestling and consent of department head. 1 hr. lecture; 2 hrs. lab. Principles and techniques of coaching wrestling; organization and administration of practice and various levels of competition.

2522 The Coaching of Competitive Swimming (2) Prereq: competency in swimming and consent of department head. 1 hr. lecture; 2 hrs. lab. Scientific principles and techniques of coaching swimming; organization and administration of various levels of competition.

2523 Aquatic Programs (3) Prereq: HP&RE 1338. Development and administration of aquatic programs for summer camps, schools, recreation departments, and private club programs; current trends in maintenance and construction of facilities.

2524 Teaching Aquatic Games and Sports (2) Prereq: HP&RE 1338. 1½ hrs. lecture; 1½ hrs. lab. Teaching techniques in water polo, synchronized swimming, skin diving, water skiing, and various aquatic games.

2525 Practicum in the Coaching of Individual and Team Sports (1-3) Prereq: competency in the sport to be coached and consent of coordinator of undergraduate programs. 3 hrs. lab. May be repeated for credit when activity varies.
programs. 3-9 hrs. lab. May be repeated for credit when
sports vary.

2526 Psychology of Coaching (3) Important psychological
perspectives applied to the athletic situation; includes
coaching personalities, athletic personalities, psychological
injuries, motivation, mental preparation, relaxation
 techniques, and stereotypes in athletics.

2540 Introducing Physical Education for All Handicapped
Children (3) Credit will not be given for both this
course and HP&RE 3545. Open only to health and physical
education majors. Laws affecting the handicapped; the
motor abilities of handicapped children and how programs
can be adjusted to suit their needs and interest.

2600 Human Sexuality (3) Historical, semantic, reli-
gious, 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 granted to those who satisfactorily
pass the examination.

2602 Methods, Materials, and Content in Health
Education for the Elementary School (3)

2700 Music in the Recreation Program (3) 3 hrs. lec-
ture/lab.

2800 Beginning Modern Dance Techniques (1) 3 hrs.
lab.

3510 Techniques and Methods of Teaching Physical
Education (3) Prereq: credit in HP&RE 2504 and compet-
tency 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, utilization of teaching aids, formulation of
lesson and unit plans.

3511 The Physical Education Program in Elementary
Schools (3) 2 hrs. lecture; 2 hrs. lab. For students major-
ning or minoring in health and physical education. Progress-
vously graded programs of activities for elementary
schools.

3514 Kinesiology (3) Prereq: HP&RE 2500. 2 hrs. lec-
ture; 2 hrs. lab. Science of muscular movements; basic
body movements and structures; applied myology, and
kinesiologic analysis; application of kinesiology to physi-
cal education activities.

3515 The Physiological Basis of Physical Activity (3)
Prereq: HP&RE 2500. 2 hrs. lecture; 2 hrs. lab. Basic
physiological concepts of the muscular, cardiovascular,
and circulatory systems; behavior of each system as
related to exercise; determination of "normal" and "ab-
normal" physical conduct in learning situations; develop-
mnt of a philosophy of scientific inquiry.

3516 Curriculum Construction in Physical Education
(3) Prereq: senior standing. Techniques of curriculum
construction and of program content for elementary and
secondary physical education.

3540 Behavior Impairment and Physical Education
(3) Prereq: EDHD 3700 and HP&RE 2540. Substantial
observation in schools required. Focus on children some-
times labeled as mentally retarded, emotionally disturbed,
or learning disabled; appropriate physical education set-
ing.

3541 Chronic Disability and Physical Education (3)
Prereq: EDHD 3700 and HP&RE 2540. Substantial ob-
servations in schools required. Focus on children with
mostly overt physical and/or sensory disabilities of a long-
lasting nature who need adjusted physical education pro-
grams.

3545 Handicapped Children in Physical Education (3)
Prereq: EDHD 3700. Credit will not be given for both this
course and HP&RE 2540. Not open to health and 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: HP&RE 1600. Organization of school health pro-
grams involving health services, healthful school living,
school environment, school health administration, and
evaluation of school health programs.

3604 School Program of Instruction in Health and
Safety (3) Structure and function of official and nonofficial
health agencies; professional associations; modern health
resources suitable for teaching health science; suitability of
methods determined by need, interest, and ability; con-
cept-oriented approach in curriculum planning and de-
velopment.

3700 Leadership in Social Recreation (2) 1 hr. lecture;
2 hrs. lab.

3800 Folk and Square Dancing (1) 3 hrs. lab.

4500 Adapted Physical Education (3) 2 hrs. lecture; 2
hrs. lab. Preparation for teaching special activities to atyp-
ical or handicapped children; organization and adminis-
tration 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 who are in-
terested in improving instructional physical education
programs at the elementary or secondary level.

4502 Advanced Coaching Theory and Techniques
(1-3) One sem. hr. of credit will be given for each one-
week session. May be repeated for credit for a maximum of
6 sem. hrs.; only one sem. hr. of credit may be earned per
sport. Lecture, discussion, and lab. Separate sections will
be offered in basketball, softball, track and field, volley-
ball, and other sports. Current theories related to the
coaching of sports.

4503 Prevention and Emergency Care of Athletic In-
juries (2) 1 hr. lecture; 2 hrs. lab. Primarily for health and
physical education majors.

4504 Advanced Diagnosis and Treatment of Athletic
Injuries (3) Prereq: HP&RE 4503. 2 hrs. lecture; 2 hrs.
lab. Training room procedures; first aid treatment of in-
juries and rehabilitation; use of athletic training-room
equipment; protective strapping, padding, etc. for all
sports.
4505 Practicum in Athletic Training (5) Prereq: HP&RE 4503; 10 hrs. lab.


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) Survey of community health aspects and implications of tobacco, alcohol, drugs, and venereal disease and other communicable diseases; other current community health problems.

4602 Safety Education (3) Covers all grade levels in the school program; home, traffic, recreational, and school safety, with emphasis on organization and administration of the school safety program.

4603 Driver Education and Traffic Safety (3) Prereq: HP&RE 4602; Psyc. 2060 and 2078. Problems facing drivers; pedestrians, cyclists, alcohol and drugs, traffic engineering; philosophy of driver education as it exists in society.

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 and interactions of school and community health programs; presentations of critical health topics by outstanding authorities from throughout Louisiana and other states.

4606 Instructional Methods and Laboratory Programs in Driver Education and Traffic Safety (3) Prereq: HP&RE 4603. 3 hrs. lecture; 6 additional hrs. in-car experience to be individually scheduled. Aims, objectives, and role of laboratory programs in driver and traffic safety education; simulation, range, in-car instruction, psychological tests, and driver and traffic safety performance curriculum of the State of Louisiana Department of Safety Education.

4607 Student Teaching in Driver Education and Traffic Safety (3) Prereq: HP&RE 4606. 3 hrs. lecture; 6 additional hrs. in-car instruction to be individually scheduled. Development of skills in driver and traffic safety education required by Department of Safety Education’s driver and traffic safety education curriculum.

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.

4702 Camping (3) 2 hrs. lecture; 2 hrs. lab. Open to all students desiring skills and knowledge necessary for work in boys’ and girls’ camps, Boy Scouts, Girl Scouts, Camp Fire Girls, and other youth organizations. Nature study, woodcraft, campcraft, boating and canoeing, swimming, diving, lifesaving, and game leadership.

4703 Principles and Philosophy of Recreation (2) Major factors on which to base a philosophy: people’s basic needs; pertinent features of modern living; home, church, school, industry, and government; essentials of leadership; organization of the community for recreation.

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 organization provided by municipal, state, and federal governments; includes surveys, policies, legislation, legal aspects, finance, and public relations.

4801 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.

4802 Modern Dance Technique and Composition (2) 3 hrs. lab. Dance composition through study of preclassical court forms and their relation to modern dance.

4803 Methods for Teaching Modern, Folk, and Ballroom Dance (2) Prereq: HP&RE 2800 and 3800; or equivalents. 1 hr. lecture; 2 hrs. lab. Modern, folk, and ballroom dance material; emphasis on creative approaches.

4804 Dance Theatre (1) Prereq: HP&RE 1152 or equivalent. 4 hrs. lab. May be taken twice for credit. Experienced modern dancers participate in the modern dance theatre as lead dancers and choreographers in dance productions.

4900 Independent Study (1-3) Prereq: consent of department. May be repeated for credit for a maximum of 6 sem. hrs. Open to advanced undergraduate or graduate students. Reading, research, and/or field work on selected topics.

4920 Psychological Aspects of Sport (3) Prereq: senior or graduate standing. Psychological and sociological perspectives of sport; the nature of play and sport, personalities of sport participants, sport as a social phenomenon, and current literature related to psychosocial aspects of sport.

7500 Introduction to Research Methods (3)

7501 Advanced Research Methods (3)

7502 Curriculum Construction in Physical Education (3)

7504 Tests and Measurements in Health and Physical Education (3)

7505, 7506 Problems in Health, Physical, Recreation, and/or Dance Education (3,3) Individual study.

7507 Historical and Philosophical Foundations of Physical Education (3)

7508 Advanced Kinesiology (3)

7509 Principles of Body Mechanics and Conditioning (3)
7510 Motor Learning (3)

7511 Administrative Problems in Health, Physical, and Recreation Education (3)

7512 Current Literature in Health, Physical, and Recreation Education (3)

7520 Motor Development (3) 2 hrs. lecture; 2 hrs. lab. Psychomotor development of children; developmental implications for skill learning; analyzing and planning motor development research; motor development in special children; research on youth sports; evaluation and assessment of motor development; and perceptual-motor development.

7522 Physical Education for Preschool and Elementary School Children (3) 2 hrs. lecture; 2 hrs. lab. 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: HP&RE 7510 and 7520. For Ph.D. students in the motor behavior track. 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; an understanding of the present structure of youth sports; pertinent research in child development, training, injuries, social psychology, skill acquisition, and coaching behavior with their implications for children in sport.

7528 Sport Psychology (3) Central problems of several topical areas of social psychology related to sport; research methodology and theories employed in sport psychology research.

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; current theories and research relevant to conditioning and physiological responses to exercise.

7540 Motor Characteristics of Handicapped Children (3) Prereq: HP&RE 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: HP&RE 7540. Motor activity programs developed from factor analytic studies contrasted with those with an intuitive base; implications of current federal and state regulations.

7542 Program Approaches for Special Physical Education (3) Prereq: HP&RE 7541. Open only to doctoral students. Range of approaches for eliciting behavior change in handicapped children, from a motor activity frame of reference.

7600 Advanced Personal and Community Health (3)

7601 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.

7700 Organization and Administration of Recreation (3)

7701 Workshop in Recreation (3) 2 hrs. lecture; 3 hrs. lab.

7999 Seminar in Selected Topics in Health, Physical Education, Recreation, and Dance (1-3) May be repeated for credit for a maximum of 6 sem. hrs. Topics vary.

8000 Thesis Research (1-9 per sem.)

8900 Independent Research (1-9) Prereq: consent of department chairman. Primarily for doctoral students who did not write a master’s thesis. May be taken by master’s students for special research projects. May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-9 per sem.)

HEBREW
(See Department of Foreign Languages, page 280.)

DEPARTMENT OF HISTORY

CHAIRMAN: Loos, Professor
PROFESSORS: Cooper, Hardy, Holtman, Noggle, Synder
ASSOCIATE PROFESSORS: Becker, Carleton, Cohen, Crump, Culbert, Hilton, Hoffman, Lipscomb, Loveland, Roiler, Younks
ASSISTANT PROFESSORS: Farmer, Henderson, Lindenfeld, Littlefield, Owen, Paskoff

Students concentrating in history in the College of Arts and Sciences must complete 33 semester hours, including History 1001, 1003, 2055, 2057, and at least 15 semester hours in courses numbered 3000 or above. Of these 15 hours, at least six must be in fields other than U.S. history. Students pursuing a teaching major or minor in social studies in the College of Education are required to complete History, 1001, 1003, 2055, and 2057. Additional history courses, elected with approval of the department chairman, must be taken to complete the requirements in either college. Fundamental courses in economics, literature, foreign languages, geography, political science, psychology, and sociology are recommended to students concentrating in history.
A special curriculum leading to the B.A. degree with 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.

History (Hist.)

1001 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. Cohen, Crump, Hardy, Lipscottb, Roader, Youngs

1002 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. Lipscottb

1003 History of Western Civilization (3) An honors course, Hist. 1004, is also available. Development of western civilization from the Reformation to the present. Hardy, Hoffman, Lipscottb, Roader, Youngs

1004 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. Lipscottb

1105 Great Figures in World History (1) Lives and times of selected men and women who influenced events, institutions, and thought of world history; each figure treated by a specialist in the appropriate field.

1159 Great Figures in American History (1) Lives and times of selected men and women who influenced events, institutions, and thought of American history; each figure treated by a specialist in the appropriate field.

2001 History of the Ancient Orient and Greece (3) Ancient Near East and Greece, with emphasis on cultural phases and development of Athenian democracy. Crump

2002 History of Rome (3) Roman history from the beginnings to the Emperor Constantine. Crump

2011 English History (3) English history from Roman times to the Glorious Revolution (1688). Youngs

2012 English History (3) English history from 1689 to the present. Lipscottb

2021 Modern European History (3) Political, economic, and social developments and diplomacy from the Renaissance to the revolutionary movements of 1848. Holman

2022 Modern European History (3) Political, economic, and social developments and diplomacy from the unification movements in Germany and Italy to the present. Holman

2023 The World Since 1960 (3) Comparison of 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 how social, economic, and political conditions affect individuals born about 1960 in the nations treated.

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. Becker, Cooper, Loveland

2056 HONORS: American History (3) Same as Hist. 2055, with special honors emphasis for qualified students. Culbert, Noggle

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. Cooper, Culbert, Loveland, Noggle

2058 HONORS: American History (3) Same as Hist. 2057, with special honors emphasis for qualified students. Culbert, Noggle

2061 History of Blacks in America (3) Social, cultural, and economic role of black people in the U.S. from 1619 to the present; the African heritage, slavery, the antebellum free people of color, the Reconstruction revolution, and the modern black protest movement. Littlefield

2071 History of Louisiana (3) Political, economic, social, and cultural development of Louisiana. Carleton

2085 Colonial Latin America (3) Colonial period emphasizing the European background, explorations, political and economic systems, and wars of independence. Hoffman

2086 Latin America Since Independence (3) Latin American countries in the 19th and 20th centuries; the search for political stability, economic and social progress, and international relations. Hilton

2095 History of East Asian Civilization to 1800 (3) An interdisciplinary and cultural approach to the civilization of East Asia, particularly China and Japan, from antiquity to early contacts with the West. Henderson

2096 History of East Asian Civilization Since 1800 (3) Modern Asian civilization, with emphasis on contacts with the West, and the rise of nationalism and communism. Henderson

3095 History of Modern Southeast Asia (3) Economic, political, and cultural processes in the colonization and decolonization of Southeast Asia from the 16th century to the present. Henderson

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 with 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, e.g., U.S., Latin American, modern European,
or Far Eastern history; discussion of historical methods and research.

3110 Senior Honors Thesis Research Seminar (3) Pre-
req: Hist. 3109. Open to honors students with consent of
seminar director. Writing of a thesis 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.

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 origin 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.

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 Amer-
ica; 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 medi-
evial 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) In-
iteations of the Old Regime, with emphasis on the En-
lightenment, 1660-1760.

4015 French Revolution and Napoleon (3) Back-
ground, 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) Concentrates on the
period 1815-1870.

4018 Europe Since the First World War (3) The
inter-war period; crisis of the democratic state and emer-
gence of totalitarian governments in Europe.

4021 History of France (3) A cultural, political, eco-

4022 History of France (3) A cultural, political, eco-
omic, and social survey of France from Louis XIV to the
present day.

4023 A 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 1871; causes and consequences of German politi-
cal fragmentation.

4026 Germany from Empire to Division (3) The last
century of German history; the Bismarckian Empire, im-
 pact of World War I, rise of National Socialism, division
of Germany after World War II.

4029 The History of Eastern Europe, 1700-1914 (3)
Intelectual, social, and political history of Eastern Europe
from 1700 to 1914, with emphasis on rise of nationalism in
the 19th century.

4030 The History of Eastern Europe, 1914-Present (3)
Intelectual, 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 emanci-
pation of the serfs; emphasis on distinctive features of
Russian historical development: autocracy, serfdom, Rus-
ian 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 democ-
acy 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 Marx-
ism.

4036 The Development of Soviet Communism (3)
Soviet Communism from the beginning of the 20th cen-
tury to the 20th Party Congress in 1956; ideology and
institutions and their inter-relations.

4039 English Constitutional History (3) Origin and de-
velopment of English legal institutions; their influence on
American legal institutions.

4040 English Constitutional History (3) Origin and de-
velopment of English legal institutions; their influence on
American legal institutions.
<table>
<thead>
<tr>
<th>Key</th>
<th>Title</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
<td>4043</td>
<td>Tudor England (3) Political, economic, and cultural history of 16th-century England.</td>
<td>Youngs</td>
</tr>
<tr>
<td>4044</td>
<td>Stuart England (3) The 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.</td>
<td>Lipscomb</td>
</tr>
<tr>
<td>4045</td>
<td>Hanoverian England (3) Political, economic, social, and intellectual history of England in the 18th century—from the accession of George I to about 1793.</td>
<td>Lipscomb</td>
</tr>
<tr>
<td>4046</td>
<td>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.</td>
<td>Lipscomb</td>
</tr>
<tr>
<td>4047</td>
<td>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.</td>
<td>Lipscomb</td>
</tr>
<tr>
<td>4049</td>
<td>The British Empire and Commonwealth (3) British Empire and development of the British Commonwealth of Nations.</td>
<td>Lipscomb</td>
</tr>
<tr>
<td>4051</td>
<td>Colonial America, 1607-1763 (3) Political, economic, cultural, and military developments in the 13 colonies.</td>
<td>Becker</td>
</tr>
<tr>
<td>4052</td>
<td>The American Revolution, 1763-1789 (3) Political, intellectual, economic, and military developments in the formation of a permanent American union.</td>
<td>Becker</td>
</tr>
<tr>
<td>4053</td>
<td>The Age of Jefferson and Hamilton (3) Emergence of American political, economic, and social systems during the formative years, 1789-1820.</td>
<td>Loos</td>
</tr>
<tr>
<td>4054</td>
<td>The Old America (3) U.S. history between 1820 and 1860; Jacksonianism, territorial expansion, party development, and the national controversy over slavery.</td>
<td>Loos</td>
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<tr>
<td>4055</td>
<td>Civil War (3) Secession; social and economic conditions, principal military campaigns.</td>
<td>Cooper</td>
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<tr>
<td>4056</td>
<td>Reconstruction (3) Political, social, and economic changes in the South from 1865 to 1880.</td>
<td>Carleton</td>
</tr>
<tr>
<td>4057</td>
<td>The Emergence of Modern America (3) Industrialization, party politics, and social life in the U.S. from 1870 to 1900.</td>
<td>Cooper</td>
</tr>
<tr>
<td>4059</td>
<td>Recent American History (3) History of the U.S. from the 1890’s through the 1920’s.</td>
<td>Noggle</td>
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<tr>
<td>4060</td>
<td>Recent American History (3) History of the U.S. during and since the New Deal.</td>
<td>Noggle</td>
</tr>
<tr>
<td>4061</td>
<td>Intellectual and Social History of the United States to 1865 (3) Ideas and patterns of thought and their relationship to American society from the colonial period to the Civil War.</td>
<td>Loveland</td>
</tr>
<tr>
<td>4062</td>
<td>Intellectual and Social History of the United States from 1865 to the Present (3) Ideas and patterns of thought; their relationship to American society from the Civil War to the present.</td>
<td>Loveland</td>
</tr>
<tr>
<td>4063</td>
<td>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.</td>
<td>Culbert</td>
</tr>
<tr>
<td>4064</td>
<td>Diplomatic History of the United States, 1914 to the Present (3) Basic interpretations of American foreign policy in the 20th century, with emphasis on public opinion and relationship of business investment to foreign policy.</td>
<td>Culbert</td>
</tr>
<tr>
<td>4066</td>
<td>Military History of the United States (3) Military policy and campaigns, war economy, and organization of the armed forces.</td>
<td>Littlefield</td>
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<tr>
<td>4067</td>
<td>The Negro in America (3) Negro life and history from 1619 to 1876; the African background of American Negroes.</td>
<td>Littlefield</td>
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<tr>
<td>4068</td>
<td>The Negro in America (3) Negro life and history from 1876 to the present; emphasis on the 20th century as an era of change.</td>
<td>Littlefield</td>
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<tr>
<td>4069</td>
<td>The Early American Frontier (3)</td>
<td>Loos</td>
</tr>
<tr>
<td>4070</td>
<td>The Later American Frontier (3)</td>
<td>Loos</td>
</tr>
<tr>
<td>4071</td>
<td>The Antebellum South (3) Economic, social, intellectual, and political development of the South up to 1860.</td>
<td>Cooper</td>
</tr>
<tr>
<td>4072</td>
<td>The New South (3) Political, economic, social, and intellectual history of the South since 1877.</td>
<td>Carleton</td>
</tr>
<tr>
<td>4073</td>
<td>History of Louisiana to 1815 (3) Political, economic, and social development of Louisiana.</td>
<td>Carleton</td>
</tr>
<tr>
<td>4075</td>
<td>American Economic History to 1860 (3) 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 &quot;new&quot; or quantitative economic history.</td>
<td>Loos</td>
</tr>
<tr>
<td>4076</td>
<td>American Economic History, 1860 to the Present (3) American economic growth and development from 1860 to the present, including 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 &quot;new&quot; or quantitative economic history.</td>
<td>Paskoff</td>
</tr>
<tr>
<td>4081</td>
<td>History of the Caribbean, 1492-1830 (3)</td>
<td>Hofman</td>
</tr>
<tr>
<td>4082</td>
<td>History of the Caribbean, 1830 to the Present (3)</td>
<td>Hofman</td>
</tr>
<tr>
<td>4083</td>
<td>Great Powers of Latin America: Mexico (3) Political, economic, and social developments since independence.</td>
<td>Hilton</td>
</tr>
</tbody>
</table>
4085 History of Argentina (3) Political, social, and economic development from the colonial period to the present.  
Hilton

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.  
Hoffman

4089 History of Brazil (3) Political, economic, social, and diplomatic developments from 1500 to the present.  
Hilton

4091 History of China (3) Political, economic, and cultural life of China from antiquity to 1800.  
Henderson

4092 History of China (3) Western impact on Chinese civilization; emphasis on political and cultural developments.  
Henderson

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.  
Henderson

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.  
Henderson

4101 History of Science from Antiquity to the Scientific Revolution (3) Scientific thought from the ancient Orient and Greece to the Renaissance; origins of the scientific revolution; science in the age of Galileo; connections between history of science and histories of technology, magic and astrology, art, philosophy, and religion.  
Farmer

4102 History of Science from the Scientific Revolution to the Present (3) History of the 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.  
Farmer

4105 Studies in Classical History (3) Selected periods and problems in Greek and Roman history; methods and materials of ancient scholarship.  
Crump

4111 Early Modern European Institutions (3) Detailed examination, with emphasis on early modern European history.  
Hardy

4113 European Intellectual History since 1789 (3) Main currents in European thought affecting society in the last 200 years: romanticism, socialism, Darwinism, psychoanalysis, existentialism.  
Lindenfield

4161 History of Religion in the United States (3) 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; includes Puritanism, revivalism, response to Darwinian evolution, social gospel, and civil religion.  
Loveland

4195, 4196, 4197 Special Studies in History (3,3,3)  
Prereq: consent of department. Topics may vary from semester to semester.

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.  
Loos

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.

7911, 7912 Seminar in European History (3,3) Sources and bibliography; reports on original research.

7915, 7916 Seminar in European History (3,3) Sources and bibliography; reports on original research.

7951, 7952 Seminar in American History (3,3) Sources and bibliography; reports on original research.

7955, 7956 Seminar in American History (3,3) 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 (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

SCHOOL OF HOME ECONOMICS

DIRECTOR: Sailor, Professor  
OFFICE: 125 Home Economics Building

PROFESSORS: Andrews, Clark, Engebretson, Kelley, Lewis, Olsen, Reeves, Younanthin

ASSOCIATE PROFESSORS: Hildreth, Howat, Howell, Ott, Phillips, Singleton, Watts

ASSISTANT PROFESSORS: Brewer, Burts, Cogle, Draughn, Hwang, McLellan, Sparks, Wellan

INSTRUCTOR: Berryman
TEXTILES AND CLOTHING

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.

1040 Textiles (3) 2 hrs. lecture; 2 hrs. lab. Fibers, fabrics, and factors influencing appearance and serviceability.

2035 Basic Clothing Construction (3) 1 hr. lecture; 4 hrs. lab. Basic principles of clothing construction applied to different fabrics used in a variety of garment designs; principles of fitting garments; use and handling of fabrics with diverse properties.

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.

3040 Household and Institutional Textiles (3) Prereq: HEc 1040. 2 hrs. lecture; 2 hrs. lab. Household and institutional textiles; selection, serviceability, and maintenance.

3044 Apparel Merchandise Selection and Costing (3) Prereq: HEc 1040, 2035, and 2045. Factors which affect 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 2045, 3044, 3045, and Mkt. 4431. Production and merchandising of fashion apparel.

3047 Apprenticeship in Retailing (8) Prereq: senior standing with an overall 2.00 average on all work taken at LSU; HEc 1030, 2045, 3044, and 3045; and credit or registration in HEc 3046. Two hrs. seminar and supervised observation and experience in representative phases of retailing in designated Baton Rouge stores as arranged by instructor. Pass-fail grading.

4030 History of Costume (3) Costume as a reflection of social, economic, and cultural life.

4035 Clothing Design—Draping (3) Prereq: 6 hrs. of clothing construction or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Designing garments by draping on the dress form.

4036 Basic Tailoring (3) Prereq: HEc 2035. 1 hr. lecture; 4 hrs. lab. Principles of tailoring in construction of dresses, suits, and coats.

4037 Pattern Design (3) Prereq: HEc 2035. 1 hr. lecture; 4 hrs. lab. Techniques of flat pattern as a method of dress design; relationships between body form, pattern shape, and fabric interpretation.

4038 Advanced Techniques of Clothing Design and Construction (3) Prereq: 9 hrs. of clothing construction or consent of instructor. 1 hr. lecture; 4 hrs. lab. Construction of garments from students' design and pattern for themselves and for a client; one garment adapted to factory production.

4040 Advanced Textiles (3) Prereq: HEc 1040. 2 hrs. lecture; 2 hrs. lab. Consumer and merchandising aspects of textile fabrics; methods of determining physical structure, quality, and serviceability.

4041 History of Textiles (3) Cultural, functional, and technological developments of textiles by selected periods and countries.

7031 Social-Psychological Influence in Clothing (3) Influence of psychological and cultural factors in selection and use of clothing.

7041 Current Advances in Textiles and Clothing (3) Scientific and related literature reporting research developments in clothing and textiles.

7042 Research in Textiles (3) 1 hr. lecture; 4 hrs. lab. Research methods applied to fabric analysis and testing; trends and recent developments in textile field.

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 session and field experiences included. Fundamental elements of management, with major consideration to goal-setting, normative decision-making procedures, and resource identification.

3056 Methods of Teaching Nursery School and Kindergarten Children (3) Prereq: HEc 2055 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Essentials needed for successful involvement with children at the nursery-kindergarten level; philosophy, teaching methods, and materials providing optimum learning experiences for the child under six.

3057 Student Teaching in the Nursery School and Kindergarten (8) Prereq: HEc 3056 and consent of instructor. 2 hrs. lecture; 18 hrs. lab. 2.20 gpa or better required before registration. Supervised experiences in planning and guiding children's activities in nursery-kindergarten programs.

3058 Organization and Administration of Nursery School and Kindergarten Programs (3) Prereq: HEc 2055. Organization and administration of nursery schools and kindergartens; historical and philosophical foundations, finances and budgeting, staff duties; policies and legal aspects, equipment and physical plant, parent education and communication, public relations.
2075 Econ. course opportunities and problems in contemporary society.

3061 The Family in a Consumer Society (3) Prereq: Econ. 2030 or AgEc 2075 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.

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 His Family (3) Growth, development, and guidance of the adolescent in the home, family, and community.

4056 Foundations of Reading Concept Development (3) Prereq: HEc 2055. 3 hrs. lecture: 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.

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, institutional, 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 in family studies.

7051 Seminar: The Family (3) The family, its change, and effects on family integration.

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) Classical and contemporary research and theory in child development; research and theoretical issues of child development related to the major domains in the child's ecology—child development, the family, services, and the environment.

7065 Management of Family Resources (3) Individual and family resources, including identification and evaluation; principles of resources and management satisfaction for individuals and families.

FOOD AND NUTRITION

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 Family Meal Management (3) Prereq: HEc 1010 and 2015; or equivalents. 2 hrs. lecture; 3 hrs. lab. Selection, purchase, preparation, and service of foods, with emphasis on nutritional needs of individuals and socio-economic status of family groups.

3020 Food Systems Purchasing (3) Prereq: HEc 2015 and Econ. 2030; or equivalents. The food service system concept, with emphasis on determining needs, procuring, and storing foods in quantity.

3021 Food Systems Layout and Equipment (3) Offered summer only. Planning of food systems layout; equipment selection and arrangement as influenced by needs of the system.

4010 Human Nutrition (3) Prereq: Chem. 2060 and Zool. 2157; or equivalents. 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. 2 hrs. lecture; 2 hrs. lab. Dietary modifications related to biochemical and physiological changes during disease.

4012 Applied Human Nutrition (3) Prereq: HEc 4010 or consent of instructor. Special problems in nutrition during pregnancy, infancy, early childhood, adolescence, adulthood, and later years.

4015 Food Theory and Experimentation (3) Prereq: HEc 2015 and Chem. 2060. Chemical and physical bases of food preparation; the rationale for procedures and phenomena; evaluation of quality using experimental methods.

4016 Cultural Food Patterns (3) Prereq: HEc 1010 or consent of instructor. Cultural and ecological influences on the food practices of peoples.

4020 Quantity Food Production (4) Prereq: HEc 4015 or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Principles of food production illustrated by demonstrations, experiments, and production laboratories; use and care of large equipment; sanitation and safety.

4021 Food Systems Management (3) Prereq: HEc 4020 or equivalent. 2 hrs. lecture; 2 hrs. lab. For students who
have had management experience in the school food program. Functions of management applied to the food-service system operation; physical facility design and equipment selection based on needs of the system.

4022 Food Systems Management (7) Prereq: HEC 4020 or equivalent. 4 hrs. lecture; 6 hrs. lab. For students majoring in dietetics with no previous management experience. Functions of management applied to food-service system operation; physical facility design and equipment selection based on 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 Foods 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. 4084. Human requirements, evaluation of nutritional status, and problems related to kind and amount of food consumed.

7018 Proteins in Nutrition (3) Prereq: credit or registration in Bch. 4084. Nutritional aspects of proteins and amino acids interpreted from the viewpoint of deficiencies, interrelationships, requirements, and metabolic pathways.

HOME ECONOMICS EDUCATION
(See School of Vocational Education, page 379.)

DIVISION OF HONORS AND INTERDISCIPLINARY STUDIES

DIRECTOR: Rothschild, Associate Professor
OFFICE: 244B Allen Hall

The aim of the following interdepartmental courses is to supplement the specialized education which the student has had within various disciplines by integrating the knowledge gained in many of these areas. Nearly all courses are conducted on a discussion basis and include an independent reading or research project.

For additional information about the division and the honors program, see page 112.

Arts and Sciences (A&S)

1001 HONORS: Seminar in Ancient Western Civilization (3) Coreq: concurrent registration in A&S 1003. The ancient world; ancient Hebrew and Greek civilizations, including literature, history, philosophy, religion, government, and fine arts.

1002 HONORS: Seminar in Roman, Medieval, and Renaissance Civilization (3) Coreq: concurrent registration in A&S 1004. European civilization from republican Rome through the Renaissance and Reformation, including literature, history, philosophy, religion, government, and fine arts.


1004 HONORS: Lectures in Roman, Medieval, and Renaissance Civilization (3) Coreq: concurrent registration in A&S 1002. Lectures, readings, and examinations coordinated with A&S 1002.

1007 HONORS: Introduction to Life Sciences (4) 2 hrs. lecture; 4 hrs. lab. Not open to students who have had Zool. 1001, 1002; Biol. 1001, 1002; or Boty. 1001, 1002. A basic course, organized in accordance with the principle of organic evolution, emphasizing the chemical basis of life and cell biology.

1008 HONORS: Introduction to the Life Sciences (4) 2 hrs. lecture; 4 hrs. lab. Not open to students who have had Zool. 1001, 1002; Biol. 1001, 1002; or Boty. 1001, 1002. A basic course, organized in accordance with the principle of organic evolution, emphasizing phylogeny, morphology, function of multicellular organisms, and people's relation to their environment.

7094 Seminar in Nutrition (1) Same as AnSc 7094, Dary. 7094, FdSc 7094, PISc 7094. May be taken twice for credit.

GENERAL COURSES

3090 Senior Seminar (1) For students majoring in home economics; open to others with consent of instructor. Pass-fail grading. 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.

7090 Seminar in Home Economics (3) The development and philosophy of home economics; recent developments, current issues, and trends with emphasis on research development and needs.

7091 Independent Reading and Research in Home Economics (3) Prereq: consent of director. Directed individual reading and research in a selected area of home economics.

8000 Thesis Research (1-9 per sem.)
HONORS: The Age of Enlightenment (3) Literature, philosophy, history, art, and science of the age of enlightenment.

HONORS: The 19th Century (3) Perspectives fundamental to 19th-century culture; relevant works of literature, philosophy, art, science.

HONORS: The 20th Century (3) May be taken twice for credit. Selected themes in 20th-century civilization.

HONORS: Colloquium in the Arts (3) May be taken twice for credit. Art forms and their cultural significance; particular themes involving examination of art works.

HONORS: Humanities Colloquium (3) May be taken twice for credit. Selected themes and materials in literature, philosophy, history, and art.

HONORS: American Studies (3) May be taken twice for credit. Selected topics in American civilization.

DEPARTMENT OF HORTICULTURE

HEAD: Newsom, Professor

PROFESSORS: Barrios, Constantin, Fontenot, Hanchey, Hernandez, Jones, O'Rourke, Stadtherr, Standifer, Young

ASSISTANT PROFESSORS: Blackwell, Lundergan

Horticulture (Hort.)

General Horticulture (4) 3 hrs. lecture; 2 1/2 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.

Commercial Fruit and Nut Culture (3) 2 hrs. lecture; 2 hrs. lab. Proper management and methods of improvement of the fruit and nut industry in Louisiana.

Vegetable Crops (3) Prereq: Hort. 2050 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. One Saturday field trip and extensive term project required. Vegetable industry and major vegetable crops in the U.S.; commercial vegetable production; lab compares new cultural practices with existing ones.

Plant Propagation (3) 2 hrs. lecture; 2 hrs. lab. Principles of sexual and asexual propagation; specific methods for reproduction of plants.

Woody Ornamental Plants (3) 2 hrs. lecture; 2 hrs. lab. Offered in alternate years. Commonly used plants such as azaleas, camellias, roses, and other shrubs, vines, and small trees; identification and uses of various plants.

Foliage Plants and Greenhouse Management (3) 2 hrs. lecture; 2 hrs. lab. Managing commercial and home greenhouses; identification and study of major greenhouse foliage plants.

Florist Crop Production (3) Prereq: Hort. 2076 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Physiological phenomena of photoperiodism and thermoperiodism applied to commercial production of major greenhouse crops, including flowering, bulbous, and vining plants.

Tropical Horticulture (1) Offered on demand. Horticulture in the tropics, including influence of people, climate, and soil on distribution of production areas and on methods and scale of cultivation of horticultural plants; major groups of horticultural plants—industrial crops, spice and beverage crops, food crops, and ornamentals.

Processing of Fruits and Vegetables (3) 2 hrs. lecture; 3 hrs. lab. Canning, freezing, dehydration, and pickling of fruits and vegetables; processing of fruits and vegetables; evaluation of the processed products.

Nursery Management (3) Prereq: Boty. 3060 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Offered alternate years. General principles and practices involved in the commercial production, management, and marketing of nursery crops.

Advanced Vegetable Crops (3) 2 hrs. lecture; 2 hrs. lab. Vegetable production, including factors that affect fruiting and production of vegetables in different areas of the U.S.

Advanced Fruit Crops (3) Offered alternate years. Production of pomological crops, the fruit industry, and
approaches to problems confronting pomologists in the southeastern U.S.

**4086 Turf Management (3)** Prereq: Boty. 1001 and Agro. 2051, or equivalents. 2 hrs. lecture; 2 hrs. lab. Management of turf grasses on lawns, golf courses, parks, highways, and athletic fields; characteristics and adaptation of the grasses and turf plants including the basic concepts of planting, establishing, and maintaining turf.

**4096 Post-Harvest Physiology (4)** 3 hrs. lecture; 2 hrs. lab. Physiological changes associated with storage and handling of fruits and vegetables.

**7002 Breeding of Horticultural Plants (3)** Offered in alternate years. Principles of genetics as applied to breeding of horticultural plants.

**7020 Application of Cytogenetics to the Improvement of Crop Plants (4)** Prereq: consent of instructor. 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.

**7022 Nutrition of Horticultural Crops (3)** Prereq: consent of instructor. Offered on demand. Nutrient elements requirements of horticultural plants and functions of nutrient elements within the plant.

**7023 Growth and Development of Horticulture Crops (3)** Offered in alternate years. Horticultural plant constituents, their occurrence, transformation, and metabolism; changes induced in plants by variations in water, light, temperature, etc.

**7025 Current Topics in Okiculture (3)** Offered in alternate years. 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)** Offered in alternate years. Seminar dealing with research publications on various topics in pomology.

**7913 Seminar (1) May be taken 4 times for credit.** Topics of current interest in horticulture.

**8000 Thesis Research (1-9 per sem.)**

**8900 Research Problems in Horticulture (3)** Prereq: consent of department head. May be taken twice for credit. Students minoring in horticulture may take this course only once. Pass-fail grading.

**9000 Dissertation Research (1-9 per sem.)**

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**DEPARTMENT OF HUMAN DEVELOPMENT**

**CHAIRMAN:** Brooks, Professor  
**PROFESSORS:** Jordan, McDuffie  
**ASSOCIATE PROFESSORS:** Beck, Devlin, Hosie, Mosley, Wawrziak  
**ASSISTANT PROFESSORS:** Bursor, Crain, Hunter, Mathews, Simms, Teller, Tynan

**OFFICE:** 63 Long Fieldhouse

**Human Development (EDHD)**


**3750 Introduction to Mental Retardation (3)** Prereq: credit or registration in EDHD 3700. Understanding the causes of mental retardation; physical, mental, emotional, and learning characteristics of the retarded.

**3751 Materials and Methods for the Mentally Retarded (3)** Prereq: EDHD 3700 and concurrent registration in EDHD 3752. Specific objectives for the retarded, and appropriate methods to accomplish these.

**3752 Observation and Practicum with the Mentally Retarded (3)** Prereq: EDHD 3700 and concurrent registration in EDHD 3751. 1 hr. lecture; 4 hrs. lab. Observation and participation in selected demonstration classes of mentally retarded children; integrates areas of curriculum, methods, and materials for teaching the mentally retarded.

**4360 Foundation, Functions, and Administration of Counseling and Guidance Services (3)** Multidisciplinary foundations of guidance; major guidance functions; overview of administration of guidance programs.

**4361 Elementary School Counseling (3)** For prospective elementary counselors and teachers. Principles and procedures of counseling within the elementary school program.

**4365 Basic Course in Interpersonal Communication (3)** 2 hrs. lecture; 2 hrs. lab. For prospective counselors and teachers.

**4600 Disabling Conditions: Rehabilitation and Special Education (3)** Etiology, acute phase, and chronic state of disability; emphasis on teamwork among physicians, teachers, counselors, and paramedical specialists.

**4601 Rehabilitation Management (3)** Management aspects of vocational rehabilitation and its relationship to special education.

**4701 Problems of Exceptional Children (3)** 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 Readings and Analysis of Research in Special Education (3)** Prereq: EDHD 4701, or equivalent with
consent of instructor. Open only to seniors and graduate students. Student is responsible for registering with a faculty member and selecting the area of reading and research analysis.

5000 Special Topics in Human Development (3) Not for degree credit. May be taken 3 times for credit when topics vary. New methods, trends, and techniques appropriate to human development.

5300 Special Problems in Guidance and Counseling (3) Prereq: consent of instructor. 1 hr. lecture; 4 hrs. lab. May be taken 3 times for credit when topics vary.

5700 Special Topics in Special Education (3) Not for degree credit. May be taken 3 times for credit when topics vary. New methods, trends, and techniques in special education.

7001 Special Education in the Regular Classroom (3) Not for degree credit for special education students. Handicapped child in a regular classroom; methods and techniques for teaching the handicapped student in the regular classroom.

7003 International Rehabilitation and Special Education (3) International organizations such as UNESCO, ILO, WHO, Partners of the Americas, IMTEC (International Movements Toward Educational Change), Rehabilitation International, and the European Council for Special Education.

7004 Economic and Legal Aspects of International Rehabilitation-Special Education (3)

7014 Behavior Modification Techniques (3) Prereq: EDHD 4360 or 4701 or equivalent. Mastery-level skills for behavior management of children in public school programs; includes theoretical and historic foundations, as well as practical application of techniques.

7015 Advanced Behavior Modification Techniques (3) Prereq: EDHD 7014 or equivalent.

7100 Characteristics of the Young Handicapped Child (3) Prereq: EDHD 4701. Characteristics of young handicapped children; educational implications; programming models.


7102 Education of Young Handicapped Children (3) Prereq: EDHD 7100. Methods and materials applicable to teaching young handicapped children.

7108 Practicum in Special Education: Young Handicapped Children (6) Prereq: EDHD 7102. 1 hr. seminar; 12 hrs. lab. Application of methods and materials used to teach young handicapped children.

7200 Characteristics of the Severely and Profoundly Impaired (3) Prereq: EDHD 4701. Review of literature regarding etiology and behavioral aspects of the severely and profoundly impaired.

7201 Educational Aspects of the Severely and Profoundly Impaired (3) Prereq: EDHD 7200. Review of literature regarding treatment and education of the severely and profoundly impaired.

7202 Teaching Children and Youth with Physical Handicaps/Multiple Disabilities (3) Prereq: EDHD 4701. Methods and materials applicable to teaching children and youth with physically handicapping or multiple conditions resulting from neurological or orthopedic impairments.

7208 Practicum in Special Education: Severely and Profoundly Impaired (6) Prereq: EDHD 7201. 1 hr. seminar; 12 hrs. lab. Observation and participation in demonstration classes for severely and profoundly impaired individuals; integration of curriculum, methods, and materials.

7301 Orientation to the World of Work (3) Prereq: EDHD 7332. Also offered as VoEd 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) Prereq: EDHD 4361 and 4365. For elementary school counselors. The dynamics of small group behavior; emphasis on classroom consultation and demonstration procedures.

7330 Group Techniques and Dynamics in Counseling (3)

7331 Counseling Theory and Techniques (3) Prereq: EDHD 4365 and either EDHD 4360 or 4361.

7332 Educational and Occupational Information (3) See VoEd 7332.

7333 Analysis of the Individual (3)

7334 Vocational Counseling (3) Prereq: EDHD 7332 or equivalent. Also offered as VoEd 7334. Materials and techniques in vocational counseling of adolescents and adults.

7360 Counseling Practicum in the Elementary Schools (3) Prereq: consent of instructor. 2 hrs. conf.; 6 hrs. lab in work setting. Supervised experience in elementary schools.

7362 Counseling Practicum in the Secondary Schools (3) Prereq: consent of instructor. 2 hrs. conf.; 6 hrs. lab in work setting. Supervised experience in secondary schools.

7364 Counseling Practicum in Special Settings (3) Prereq: consent of instructor. 2 hrs. conf.; 6 hrs. lab in work setting. Supervised experience in special settings (e.g., employment service, rehabilitation agency, mental health center, hospital, counseling center).

7365 Seminar in Counseling Practicum (3) Prereq: concurrent enrollment in EDHD 7360, 7362, or 7364. Consultation with professor and peers regarding special problems encountered in implementing counseling and guidance services.

7390 Advanced Counseling Theory and Techniques (3) Prereq: EDHD 7331 or equivalent. Theoretical approaches to individual counseling.

7392 Advanced Vocational Counseling (3) Prereq: EDHD 7334 or equivalent. Also offered as VoEd 7392. Life career planning through vocational assessment and
7394 Advanced Group Counseling (3) Prereq: EDHD 7330 or equivalent. Small group counseling approaches.

7395 Family Counseling (3) Prereq: consent of instructor. Theory and practice of family therapy; family dynamics, the role of the counselor, and theoretical approaches to conducting family therapy.

7397 Special Topics in Counseling (3) 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) Prereq: EDHD 7332 and 7334. 1 hr. lecture; 4 hrs. lab. May be taken twice for credit. Also offered as VoEd 7398.

7399 Supervised Counseling Internship (3) Prereq: consent of instructor. 1 hr. conf.; 6 hrs. lab. May be taken twice for credit.

7701 Current Issues in Special Education (3) Prereq: EDHD 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.

7710 Counseling Exceptional Children and Their Parents (3) Special skills and information related to process and product of 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).

7711 Evaluation of Exceptional Children (3)

7712 Occupational Direction for Exceptional Children (3)

7713 Individual Study in Special Education (3)

7715 Diagnostic-Prescriptive Teaching in Special Education (3) Prereq: EDHD 4701 and 7711; or equivalents. 3 hrs. lecture and lab work. Assessment and individualized programming for educationally handicapped; methods of assessing individual functioning levels; writing individual educational plans; methods and materials to support the programming.

7718 Practicum in Individual Assessment (3) Prereq: EDHD 7711 or 7733 or equivalent. Supervised experiences in specific educational assessment techniques; practical, in-depth approach to educational assessment.

7719 Internship in Special Education (3) 3 hrs. lecture; 10 hrs. lab. May be taken twice for credit. Scheduled after completion of the educational specialist program. Advanced graduate internship in special education.

7720 Education of Emotionally Disturbed Children (3) Prereq: consent of instructor. Defining emotional disturbance, determining an incidence rate, and identifying a variety of causal factors; the history of service delivery systems; impact of the problem on the public school system.

7721 Principles and Practices in Teaching Emotionally Disturbed Children (3) Prereq: consent of instructor. Methods of teaching and techniques for management of emotionally disturbed children in educational programs; basic 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) Prereq: consent of instructor. Theories of maladaptive behavior patterns in school age children.

7728 Practicum in Special Education: Emotional Disturbance and Social Maladjustment (6) Prereq: completion of EDHD 7720 or equivalent; and completion of or concurrent enrollment in EDHD 7721 or equivalent. Concentrated field experience for students specializing in this area. As part of a master's degree program, all-day, all-term attendance at the practicum site is required. At the specialist's level, 280 clock hours of practicum activities is considered a minimum requirement. Every effort is made to tailor the practicum to the background and goals of the individual.

7730 Education of the Hearing Impaired (3) Prereq: EDHD 4701 or consent of instructor. Problems of hearing impairment; its effects on educational, social, emotional, psychological, and vocational adjustment.

7731 Special Methods for Teaching the Hearing Impaired (3) Prereq: EDHD 7730, 7732, and 7734. Development and adaptation of curriculum materials; instructional media, technology, and procedures to fit educational needs of hearing-impaired children.

7732 Language Development for the Hearing Impaired—I (3) Prereq: EDHD 7730 or consent of instructor. Communication processes; development of oral and written expressive and receptive language.

7733 Language Development for the Hearing Impaired—II (3) Prereq: EDHD 7732 or consent of instructor. Continuation of EDHD 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) Prereq: EDHD 4701 and 7730; or consent of instructor. Development, improvement, and correction of speech for the hearing impaired.

7735 Speech Development for the Hearing Impaired—II (3) Prereq: EDHD 7734 or consent of instructor. Diagnosis and planning for remediation or correction of individual cases and group situations.

7738 Practicum in Special Education: Deaf and Hard of Hearing (6) 1 hr. lecture; 10 hrs. lab.

7740 Introduction to Children with Learning Disabilities (3) Prereq: credit or registration in EDHD 4701. Learning disabilities; historical development, prevalent theories, characteristics, teaching strategies, organizational patterns.

7742 Methods of Instruction for Children with Learning Disabilities (3) Prereq: EDHD 4701 and 7740. Various approaches (e.g., perceptual-motor, multisensory, language development) to teaching children with learning disabilities; corresponding materials.

7748 Practicum in Special Education: Learning Disabilities (6) Prereq: EDHD 4701, 7740, and 7742. 1 hr. lecture; 10 hrs. lab.
7750 Education of the Mentally Retarded Child (3) 
Prereq: EDHD 4701 or equivalent. Psychological orientation to the field of mental retardation; characteristics of the mentally retarded child; current research in mental retardation.

7751 Curriculum and Methods of Teaching the Mentally Retarded (3) Prereq: completion of or concurrent enrollment in EDHD 7750. Curriculum development for the mentally retarded; research in current methodology and teaching approaches.

7758 Practicum in Special Education: Mental Retardation (6) 1 hr. lecture; 10 hrs. lab.

7780 Seminar in Special Education (3) Recommended for advanced graduate students. Selected topics in special education; content and discussion topics vary.

INDUSTRIAL EDUCATION
(See School of Vocational Education, page 376.)

DEPARTMENT OF INDUSTRIAL ENGINEERING

CHAIRMAN: Mann, Professor
PROFESSORS: Boguslavsky, Hall, Zohdi
ASSOCIATE PROFESSORS: Bruckner, Pruett, Ray
ASSISTANT PROFESSORS: Hotard, Jones, Ristroph
INSTRUCTOR: Perrin

OFFICE: 3128 CEBA Building

Industrial Engineering (IE)

1000 Man and Technology (3) Technology’s relation to mankind; effect of technological changes on human lifestyles; results of technological alternatives in the areas of production, energy, population, leisure; international understanding of humanity’s future.

2153 Introduction to Industrial Engineering (3) Fundamentals of industrial engineering.

2154 Industrial Engineering Design and Analysis (3) Prereq: credit or registration in ME 2603. 2 hrs. lecture; 3 hrs. lab. Formulation and analysis of physical problems, design cycle, methods engineering, work measurement, balancing the manufacturing system, synthetic and real-time standard systems, and work sampling.

4104 Motion and Time Study (3) Not available for graduate IE degree credit. Process charting, operations analysis, motion and time studies, predetermined basic motion times, rating, allowances, work sampling, and wage payment plan.

4201 Principles of Engineering Economy (3) Planning economy studies for decision-making, including considerations of rate of return, cost and yield studies, depreciation and tax relationships, increment costs, replacement, and introduction to multivariate alternative studies.

4302 Engineering Statistics (3) Prereq: Math 1052. Descriptive statistics for one or two variables of measurement, discrete and continuous frequency distributions, emphasis on curve fitting and regression, statistical inference, tests of hypothesis, estimation, analysis of variance, and simple and multilinear regression and correlation.

4362 Advanced Engineering Statistics (3) Prereq: IE 4302. Curvilinear regression including orthogonal polynomials, random error estimates, sequential analysis, moments and expectation, model verification, and design of engineering tests.


4405 Production Control (3) Prereq: IE 4104. Not available for graduate IE degree credit. Routing, scheduling, dispatching in the plant; types of manufacturing industries; the production-control department, problems in production control.

4406 Plant Layout (3) Prereq: IE 4104. Not available for graduate IE degree credit. Layout planning, automation, materials handling, plant flow and arrangement, work place, department and plant arrangement, storage, receiving and shipping, and plant location.

4419 Engineering Production Control (3) Prereq: IE 2154 and 4302, and credit or registration in IE 4201 and 4510. History, organization, and functions of industry; production-control planning, scheduling, forecasting, and inventory relationships; network scheduling principles.

4425 Production Systems Engineering (3) Prereq: IE 4419 and 4510. 2 hrs. lecture; 3 hrs. lab. Analysis and design of production planning and control systems applying plant operations control models and integrating computer and operations research techniques; synthesis using the design project approach.

7790 Organization and Administration of Special Education (3) Practical and theoretical aspects of the administrative structure of special education programs; emphasis on current practices in public school programs.

7791 Educational Systems Analysis in Special Education (3) Prereq: completion of 3 sem. hrs. in educational administration or consent of instructor.

7798 Practicum in Special Education: Administration of Special Education (6) 1 hr. lecture; 10 hrs. lab.

7799 Internship in Administration of Special Education Programs (3) 1 hr. lecture; 10 hrs. lab. May be taken twice for credit. Advanced, supervised internship in the field.

8000 Thesis Research (1-9 per sem.)
4453 Industrial Quality Control (3) Prereq: ME 2603 and IE 4302. Principles and practice of quality assurance and control; theory of statistical sampling and control and related economic analysis.

4486 Basic Project Engineering (3) Prereq: a basic course in thermodynamics and a basic course in fluid mechanics. Not available for graduate IE degree credit. Basic principles in engineering and managing the design and construction of production facilities; steps in plant design, construction procedures, engineering design, and equipment selection.

4490 Engineering Maintenance Management (3) Prereq: IE 2154 or 4101. 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 consent of instructor; and credit or registration in IE 4302. Linear programming, queuing theory, inventory theory, simulation models, and mathematical models relevant to engineering problems.

4511 Industrial Simulation (3) Prereq: Engr. 2060 or CSCE 1241, and IE 4510; or consent of instructor; 2 hrs. lecture; 3 hrs. lab. 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 4201 and 4510. Machine loading, assembly balancing techniques, design of physical-manufacturing systems, integrating the 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 4302. Reliability in design; reliability models; reliability assessment during preproduction development and testing; and special problems in maintenance, spare parts, and Markov processes.

4607 Industrial Relations (3) Prereq: senior standing. Principles of human relations between workers and technical personnel of industrial enterprises, job evaluation and merit-rating systems, industrial training programs, methods of motivating employees.

4620 Legal Aspects of the Engineering Profession (3) Legal and ethical aspects of the engineering profession, technical aspects of contracts, bidding practices, specifications, patents and inventions, and product liability.

4785 Special Topics in Industrial Engineering (3) Prereq: senior standing. May be taken twice for credit. Topics in industrial engineering not sufficiently covered in other undergraduate courses; inventory control, queuing, maintenance control, and manufacturing-systems design.

7211 Project Engineering (3) Prereq: IE 4201 or equivalent. Large-scale engineering construction or development projects from schematic to on-line condition.

7408 Industrial Systems Simulation (3) Prereq: IE 4510, ME 4533, or equivalents. Design, testing, and operation of mathematical models to simulate industrial systems.

7533 Advanced Engineering Use of Electronic Computers (3) See ME 7533.

7541 Analysis of Industrial Operations (3) Industrial operations research problems; emphasis on quantitative tools of problem analysis; methods, need for data, difficulties, action, and associated results.

7551 Industrial Queueing and Inventory Models (3) Industrial waiting-line problems including machine interference, equipment utilization, and maintenance theory; inventory models including industrial scheduling and reorder systems.

7642 Administration of Engineering and Technical Personnel (3) Prereq: consent of instructor. Also offered as CH E 7242. 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) Problems of student interest in specialized industrial engineering areas such as design and analysis of complex production control, maintenance, quality control, reliability, and work-measurement systems.

8000 Thesis Research (1-9 per sem.)

Engineering Graphics (EGr)

1001 Engineering Graphics (2) 6 hrs. lab. Fundamentals of graphical analysis used by engineers and scientists in 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 and other necessary relationships used in solution of engineering and scientific problems and creative design.

1004 Graphical Communications (3) 9 hrs. lab. Freehand lettering and sketching, definitions, abbreviations, and symbols; primary and secondary auxiliary views with application to solving engineering problems; graphical presentation of engineering data, vector quantities and vector diagrams, empirical equations; graphical mathematics, functional scales, and nomography.

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 applied to problems emphasizing the various engineering disciplines.

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.
Automated Graphics for Designers (3) Prereq: CSc 1240 or equivalent, and eligibility for Math 1050. 2 hrs. lecture; 3 hrs. lab. Also offered as Arch. 2173. Use of automated graphical techniques in design and design communication.

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 arrangements; single-line and double-line drawings and pictorials; industrial standards and symbols including safety requirements recommended by the American National Standards Institute.

Geometric Systems (3) Prereq: EGr 2154 and consent of department. 1 hr. lecture; 4 hrs. lab. Application of mongeian geometry to engineering problems treating points, lines and planes, and surfaces; intersecting surfaces and their development; single-curved surfaces, warped surfaces, double-curved surfaces, and surfaces of revolution.

Design Graphics (3) Prereq: EGr 2154 and consent of department. 1 hr. lecture; 4 hrs. lab. Inventive design developing new products and improving existing equipment; study of analysis, synthesis, and aesthetic qualities of design through sketches, prototypes, and models.

Production Illustration (3) Prereq: EGr 2154 and consent of department. 2 hrs. lecture; 2 hrs. lab. Commercial and technical illustrating—pencil rendering, ink delineations, airbrush, and other methods; exploded views and methods of shading; patent drawings; design of monograms and colophons; survey of reproduction methods.

Computer Graphics (3) Prereq: CSc 1240 or Engr. 2060 or equivalent; and Math 2085 or equivalent; or consent of instructor. Also offered as CSc 4354 and ME 4243. Analytical treatment of graphics using the digital computer; input, transformation, and display of graphical data, graphical languages, interactive techniques, and selected topics; emphasis on current developments.

Applied Interactive-Graphic Computer-Aided Design (3) Prereq: EGr 1001 and 2154; or consent of instructor. Also offered as CSc 4355 and ME 4253. Interactive graphic techniques used to solve engineering design and data retrieval problems.

INTERIOR DESIGN
(See School of Architecture, page 237.)

ITALIAN
(See Department of Foreign Languages, page 284.)

SCHOOL OF JOURNALISM

DIRECTOR: Hicks, Professor
ASSOCIATE PROFESSORS: Featherston, Hebert, Mundt, Sheldon
ASSISTANT PROFESSORS: Broussard, d’Hemecourt, Holgate, Jones, Lesem, Wetherholt
INSTRUCTOR: Fisher

The professional curricula in journalism are outlined in the section of this catalog entitled "College of Arts and Sciences" (page 116). Students who expect to concentrate in journalism for a nonprofessional degree must include Journalism 2090, 2091, 2151, 3002, 4082, 4085, 4092, 4107, and 4141, plus six additional hours of journalism courses to make a minimum of 33 semester hours.

A special curriculum leading to the Bachelor of Arts in Journalism with honors is offered. Details are available from the School of Journalism.

Students in other academic areas may enroll in journalism courses having no prerequisites.

Journalism (Jour.)

Introduction to the Mass Media (3) American mass media; their development, structure, problems, and opportunities; mass communications theory and processes.

History of American Journalism (3) Major developments in newspapers from colonial times to the present; history of news broadcasting from the 1920’s to the present.

Typography and Graphic Arts (3) 2 hrs. lecture; 2 hrs. lab. Occasional field trips to printing plants. Typography and graphic arts processes in printed communications.

Independent Study (1-3) Prereq: journalism student with sophomore standing and a grade average of 3.00 or above in all previous journalism courses; approval of the director. May be repeated for credit for a maximum of 3 sem. hrs. Reading, projects, conferences, and reports under the direction of a journalism faculty member.

Beginning Newswriting (3) Prereq: "C" or better in Engl. 1002; typing ability of about 35 words per minute. 1 hr. lecture; 4 hrs. lab. Practice in locating sources of news, interviewing, and note-taking; evaluating and organizing facts; writing basic kinds of news stories, using wire service style.

Industrial Publishing (3) Adaptation of journalism principles to specialized needs of business papers and company publications.

Feature Writing (3) Prereq: Jour. 2151. Developing and writing feature stories, vignettes, and other human-interest material.
3065 Photojournalism (3) Prereq: Jour. 2151 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Photographic principles for communications media.

4003 Principles of Public Relations (3) Mass-communication techniques applied to theories and principles of the public-relations function.

4030 Principles of Advertising (3) Fundamentals of advertising theory and practice; social and economic role of advertising; functions of advertising in marketing and communication.

4031 Advertising Copy and Layout (3) Prereq: Jour. 2095. 2 hrs. lecture; 2 hrs. lab. Advertising layout techniques and copywriting for print and electronic media.

4035 Advertising Sales and Media Fundamentals (3) Prereq: Jour. 4030 and 4031. 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) Prereq: Jour. 4030, 4031, and 4035. 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.

4042 Newspaper Reporting (3) Prereq: "C" or better in Jour. 2151. 2 hrs. lecture; 2 hrs. lab. Reporting campus news for The Daily Reveille; practice in composing stories on video display terminals.

4075 Radio News (3) Prereq: "C" or better in Jour. 2151. 1 hr. lecture; 4 hrs. lab. Gathering and preparing news for radio, using broadcast style; reporting for WPRG.

4078 Television News Film (3) Prereq: Jour. 4075. 1 hr. lecture; 4 hrs. lab. Filming and editing projects for television news and documentaries.

4080 Television News (3) Prereq: Jour. 4075 and 4078. 1 hr. lecture; 4 hrs. lab. In-studio preparation and production of news for television.

4081 Editorial Interpretation of Contemporary Affairs (3) Current national and international news problems; writing editorials.

4082 The Law of the Mass Media (3)

4085 Community Journalism Management (3) General management principles applied to publishing community newspapers.

4092 Problems of Contemporary Journalism (3) Contemporary problems in publishing and broadcasting news, editorial materials, and advertising; examination of roles and responsibilities of the journalist, including journalistic ethics; media criticism.

4093 HONORS: Problems of Contemporary Journalism (1) Coreq: concurrent registration in 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.

4107 Newspaper Editing and Layout (3) Prereq: Jour. 2095, 4042, and 4082. 1 hr. lecture; 4 hrs. lab. Selecting, evaluating, and processing news copy; copy editing, headline writing, and newspaper makeup.

4141 Public Affairs Reporting (3) Prereq: Jour. 4042 or 4080. 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.

4999 Independent Study (1-3) Prereq: journalism student of high academic standing with consent of director. May be repeated for credit for a maximum of 6 sem. hrs. Readings, projects, conferences, and reports under the direction of a journalism faculty member.

7001 Research Methods in Mass Communications (3) Methods common to most types of communications research; case studies, libraries, and communications content; occasional field work.

7005 Public Opinion (3) Formation and development of public opinion; role of the press in influencing thought and action.

7015 Mass Communications and Society (3) Roles of the mass media; responsibilities and rights of the communicator; interaction of mass media and society.

7016 International Mass Communications (3) How nations get their news; organization and operation of press associations, newspapers, magazines, radio, and television.

7018 Legal Problems of the Mass Media (3) Specific current legal problems affecting the mass media; basic principles of legal research methods.

7021 Communication Theory (3) The communication process; attention, perception, effects on individual and society; beginnings and development of symbolic communication and divergence of language systems; relation of language to the thought processes; uses of language in mass communications; seminars on results of research projects and ideas for further research.

8000 Thesis Research (1-9 per sem.)
Landscape Architecture (LA)

1151 Introduction to Landscape Architecture (1) Concerns and responsibilities of landscape architects and their relation to allied fields.

1181 Landscape Architectural Graphics (Freehand) (3) 1 hr. lecture; 6 hrs. lab. Freehand graphic skills and techniques used in illustrating landscape design projects; individual application and personal criticism directed toward developing student proficiency.

1182 Landscape Architectural Graphics (Mechanical) (3) 1 hr. lecture; 6 hrs. lab. Technical drawing for the landscape architect; orthographic, isometric, oblique, perspective, and section drawings; emphasis on practical application to landscape architecture.

1651 Introduction to Recreation (3) Same as HP&RE 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 students not majoring in landscape architecture. Awareness and appreciation of home and community problems which can be resolved by landscape architects.

2112 Ecology in Landscape Architecture (3) Interaction between natural and man-made elements of the environment; developing a basis for resource and recreation planning.

2141 History of Landscape Architecture (3) Evolution of man's development of the landscape in western civilization from the earliest cultures through the 19th century.

2142 History of Landscape Architecture (3) Man's development of the landscape in the 20th century; evolution of Oriental attitude toward the landscape and contrasts in viewpoint with western civilization.

2152 Theory of Landscape Architecture (3) 2 hrs. lecture; 3 hrs. lab. Development of sensitivity to environment; art elements and principles related to landscape architecture; man's need and sensitivity toward spatial organization in the landscape; design as a process; series of projects aimed at stimulating evaluation, criticism, and creativity.

2171 Landscape Construction (3) Prereq: LA 1182 or consent of instructor. 2 hrs. lecture; 3 hrs. lab. Introduction to landscape construction, investigation of materials, and methods of installation.

2183 Landscape Architectural Graphics (Advanced) (3) Prereq: LA 1181 and 1182, or equivalent. 1 hr. lecture; 6 hrs. lab. Personal development and refinement of graphic techniques to improve communication in graphic presentation.

2652 Evolution of Park and Recreation Planning (3) Prereq: LA 1161. History of parks in the U.S. from earliest developments to the present; interrelationships of cultural influences.

2653 Principles of Recreation Planning (2) 6 hrs. lab. Application of planning methodology in the design of recreational facilities through a series of design projects.

3121 Landscape Plant Materials (3) Prereq: registration in LA 3153 or above; and consent of instructor. 1 hr. lecture; 6 hrs. lab. Identification and study of plant materials; emphasis on their visual characteristics.

3122 Landscape Plant Materials (3) Prereq: LA 3121. 1 hr. lecture; 6 hrs. lab. Identification and study of plant materials; emphasis on their ecological associations and value as design elements in landscapes.

3153 Basic Landscape Architectural Design (4) Prereq: LA 1181 and 1182; or consent of instructor. 1 hr. lecture; 9 hrs. lab. Application of design theory through a series of consecutive projects stressing process and conceptualization; people and nature as project determinants.

3154 Basic Landscape Architectural Design (4) Prereq: LA 3153. 1 hr. lecture; 9 hrs. lab. Application of design theory with continuing stress on process and conceptualization in design; art and technology as project determinants.

4155 Planting Design (3) Prereq: LA 3122 and 3154; or consent of instructor. 1 hr. lecture; 6 hrs. lab. Theory related to plant materials as utilized in landscape design; emphasis on visual character, ecological value, and conceptual attitudes behind usage.

4156 Planting Design (3) Prereq: LA 4155 or consent of instructor. 1 hr. lecture; 6 hrs. lab. Development of skills in plant arrangement for a series of landscape design projects from detailed to regional scale.

4157 Intermediate Landscape Design (4) Prereq: LA 3154. 1 hr. lecture; 9 hrs. lab. Refinement of skills and individuality in development of design solutions; emphasis on process and conceptualization.

4158 Intermediate Landscape Design (4) Prereq: LA 4157. 1 hr. lecture; 9 hrs. lab. Scope of landscape architecture presented through a variety of projects to encourage self-determination as future professionals.

4173 Landscape Construction (4) Prereq: Math 1012 or 1022, either AgE 3307 or GE 2500 and 2510, and LA 2171; or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Development of basic knowledge and skill of topographic grading, earth volume estimates, and horizontal and vertical road alignment.

4174 Landscape Construction (4) Prereq: LA 4173 or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Development of knowledge and skill in design, technical layout, and construction of site structures and systems; investigation of specialized aspects such as structural mechanics, wood construction, outdoor lighting, irrigation, and retaining walls.

4175 Landscape Construction (4) Prereq: LA 4174 or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Advanced landscape construction; synthesis of all previous landscape courses; preparation of a complete set of construction drawings for large scale, complex projects.

4184 Communication Media in Landscape Architecture (3) Prereq: LA 2183 and 3153; or equivalents. 2 hrs. lecture; 3 hrs. lab. Experimentation and interaction through various media to promote and clarify interchange
of ideas and attitudes between designers; relation of designers to the public.

4191 Independent Studies in Landscape Architecture (1-6) May be repeated for credit for a maximum of 6 sem. hrs. Problems in landscape architecture adapted to specific needs of students.

4195 Field Studies in Landscape Architecture (1-4) May be repeated for credit for a maximum of 9 sem. hrs. A maximum of 2 sem. hrs. of graduate credit may be earned in this course. Term report based upon certain assigned aspects of the trip required. Field trips to a wide variety of landscape architectural offices, projects, and schools throughout the U.S. and abroad; meetings with landscape architectural departments at various universities and discussions with professional landscape architects at offices and project sites to promote interchange of ideas and observe professional practice.

4251 Advanced Landscape Design (4) Prereq: LA 4158. 1 hr. lecture; 9 hrs. lab. Student interaction to achieve a unified design goal related to community planning; projects to develop familiarity with collection and analysis of complex data bases for land use and planning decisions.

4252 Advanced Landscape Design (4) Prereq: LA 4251. 1 hr. lecture; 9 hrs. lab. Student initiative, discipline, and personal decision developed through evolution and design of a major project to be chosen by each student.

4276 Landscape Architectural Professional Practice (3) Prereq: LA 2171, 4173, and credit or registration in LA 4174. General, legal, business, and professional aspects of landscape architectural practice; significance of orderly, ethical procedures in the relationships of landscape architect, client, and contractor relating the landscape architect’s responsibility to the public.

4291, 4292 Specialized Aspects of Landscape Architecture (2,2) Prereq: consent of instructor. Advanced research, design, and discussion in specialized areas of landscape architecture.

4654 Areas and Facilities for Recreation (3) 1 hr. lecture; 6 hrs. lab. Design and management of recreation areas.

7351 Graduate Landscape Design (4) Prereq: consent of instructor. 1 hr. lecture; 9 hrs. lab. Design studies, with emphasis on exploration of landscape architectural site design factors; case-study method with problems of small and intermediate scale; systematic design approach.

7352 Graduate Landscape Design (4) Prereq: LA 7351 or consent of instructor. 1 hr. lecture; 9 hrs. lab. The regional landscape; methods of assessing environmental problems and identifying landscape resources; use of interdisciplinary data base; opportunity to pursue individual interests within a regional landscape design context.

7353 Graduate Landscape Design (4) Prereq: LA 7352 or consent of instructor. 1 hr. lecture; 9 hrs. lab. Emphasis on developing individual interest using the case-study method; the shaping forces of landscape design decision-making; projects of various scales.

7354 Independent Study in Landscape Architecture (1-6) Enrollment based on faculty acceptance of student’s specific study proposal prior to registration. For the superior and advanced student. Student supervised by and responsible to a graduate faculty member in all case-study situations; faculty evaluations based on periodic reviews and final written report and verbal presentation. Student may work individually with a faculty member who has special expertise but is not teaching a course on the topic, 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.

7392 Landscape Architectural Research Methods (2) 6 hrs. lab. Research and research methodology; approaches to research problems; skills and concepts needed to conduct research in landscape architecture; use of data resources; review of research done in landscape architecture and related fields; application of research to landscape design.

7393 Literature and Document Survey in Landscape Architecture (2) Prereq: LA 7392. 6 hrs. lab. Literature of landscape architecture; literature and other document review related to specific landscape architectural problem areas; individual guidance and group discussion of analysis and reporting techniques and relationship to landscape design.

7394 Research in Landscape Architecture (2) Prereq: LA 7392. 6 hrs. lab. Examination of design determinants or specific landscape architectural problems through a selected term research project or projects of limited scope; individual and group discussion of research objectives and field methodology; application of research to landscape design.

7398 Seminar in Landscape Architecture (2) Issues and problems in landscape architecture; student presentations and use of informed guests from University and community; focus on one topical area each semester.

7399 Seminar in Landscape Architecture (2) 2 hrs. recitation. Issues and problems in landscape architecture; student presentations and use of informed guests from the University and community.

7651 Recreation Planning (4) Prereq: LA 7352 and 7695, or consent of instructor. 1 hr. lecture; 9 hrs. lab. Comprehensive planning of recreation; design of outdoor recreation areas.

7695 Research in Recreation Planning (4) Prereq: LA 7393 or consent of instructor. 1 hr. lecture; 9 hrs. lab. Research and analysis of recreation problems; role of the landscape architect in planning for recreation.

8000 Thesis Research (1-9 per sem.)
LATIN AMERICAN STUDIES INSTITUTE

DIRECTOR: Cardenas, Associate Professor

PROFESSORS: Daly, Flammang, Jenkins, Lozada, Lunardini, M. Richardson

ASSOCIATE PROFESSORS: Chardon, W. Davidson, S. Hilton, Hoffman, Perez

ASSISTANT PROFESSOR: J. Edwards

Latin American Studies (GLAS)

7900 Seminar in Latin American Studies (1) May taken 3 times for credit.

8000 Thesis Research (1-9 per sem.)

Latin American Area Studies (Interdepartmental Program)

Students concentrating in Latin American area studies at the undergraduate level must complete 30 semester hours from courses in three of the fields listed below. Prerequisites for listed courses must be completed before where required. Students planning to enter Graduate School in a subject other than Latin American area studies (e.g., economics, political science, history, language, literature, etc.) are advised to complete 24 to 33 hours in that subject. A student must attain proficiency in either Spanish or Portuguese. In Spanish, at least courses 2071, 2072, and 2074 must be completed. In Portuguese, at least nine hours above 2055 (chosen from Portuguese 4001, 4002, 4021, 4022, and 4915) are required.

Anthropology

4003 Indian Civilization of Middle and South America (3)

4023 Latin American Cultures (3)

Economics

4030 Economic Development in Latin America (3)

4040 U.S.-Latin American Economic Relations: Issues and Policies (3)

Geography

4031 Spanish America (3)

4032 Brazil and the Caribbean Area (3)

History

2085 Colonial Latin America (3)

2086 Latin America Since Independence (3)

4023 A History of Spain (3)

4081 History of the Caribbean, 1492-1830 (3)

4082 History of the Caribbean, 1830 to the Present (3)

Political Science

4065 Latin American Governments and Politics (3)

4066 Inter-American Relations (3)

Sociology

3901 Directed Reading and Research in Sociology (1-3) May be repeated for credit for a maximum of 3 sem. hrs.

4361 Latin American Societies (3)

1Department of Economics.

2Department of Foreign Languages.

3Department of Geography and Anthropology.

4Department of History.

5Department of Political Science.

6Department of Sociology.

Offices: 146 Lockett Hall
Recommended Language Courses

Portuguese

4001, 4002 Portuguese Language and Literature (3,3)

Lunardini

4021 Portuguese Literature of the 19th and 20th Centuries (3)

Lunardini

4022 Brazilian Literature of the 19th and 20th Centuries (3)

Lunardini

4915 Independent Work (1) May be taken 3 times for credit.

Lunardini, Thompson

Spanish

2071, 2072 Survey of Spanish Literature (3,3)

Kirby, Vilas-Gil

2074 Advanced Readings on Hispanic-American Civilization (3)

Locada

4042 Spanish-American Literature (3)

4052 Dramatic Literature of the Golden Age (3)

de Armas

4061 The Generation of 1898 (3)

Kirby

4062 Spanish Literature of the 20th Century (3)

Vilas-Gil

GRADUATE SCHOOL OF LIBRARY SCIENCE

DEAN: Carter, Associate Professor

PROFESSOR: Patterson

ASSOCIATE PROFESSORS: Cairns (Assistant Dean), Miksa, Perritt

ASSISTANT PROFESSORS: Howden, Shiflett

Full information concerning the Graduate School of Library Science and its courses may be obtained from the Graduate School of Library Science Bulletin.

Library Science (LibS)

7000 Fundamentals of Library and Information Service—I (6)

7010 Fundamentals of Library and Information Service—II (6)

7101 Media and Services for Children (3)

7102 Media and Services for Young Adults (3)

7104 Media and Services for Adults (3)

7106 Problems in Selection and Evaluation of Library Resources (3)

7200 Resources for the Humanities (3)

7201 Resources for the Social Sciences (3)

7202 Resources for Science and Technology (3)

7203 Federal Government Publications (3)

7204 Resources for the Health Sciences (3)

7206 Resources of American Research Libraries (3)

7209 Resources in Special Literatures (3)

7400 School Librarianship (3)

7401 Academic Librarianship (3)

7402 Cooperative Systems Librarianship (3)

7403 Special Librarianship (3)

7404 Health Sciences Librarianship (3)

7405 Public Librarianship (3)

7501 Management of Library and Information Systems (3)

7502 Technical Services Management (3)

7505 Analysis of Libraries and Information Systems (3)

7506 Library Information Processing (3)

7601 Problems in Cataloging and Classification (3)

7602 Organization of Special Materials (3)

7605 Information Science (3)

7606 Abstracting and Indexing (3)

7607 Online Library Systems and Services (3)

7700 History of Books and Libraries (3)

7701 Printing and Publishing (3)

7800 The Art and Practice of Storytelling (3)

7900 Research Methods in Library Science (3)

7901 Issues in Libraries (1)

7908 Special Topics in Library and Information Systems (3)

7909 Directed Independent Study (1-3)

8000 Thesis Research (1-9 per semester)

LINGUISTICS (INTERDEPARTMENTAL PROGRAM)

The Departments of English, Speech, and Foreign Languages participate in a program leading to the degree of Doctor of Philosophy with a major in linguistics. The same departments, plus the Department of Geography and Anthropology.
participate in a program leading to the degree of Master of Arts with a major in linguistics. A prospective student will register with one of these departments. The proposed program of study will be subject to the review and approval of an advisory committee composed of representatives from each of the collaborating fields of study.

Complete requirements and a listing of required courses for the master's and doctoral degrees are given in the Graduate School Catalog.

DEPARTMENT OF MANAGEMENT

CHAIRMAN: Gray, Professor
PROFESSORS: Fletcher, Harris, McCann
ASSOCIATE PROFESSORS: Kedia, Oliva, Peters, Wallin
ASSISTANT PROFESSORS: Leap, Williams
INSTRUCTOR: Duhon

The prerequisite for any management course may be waived in exceptional cases with consent of the instructor and approval of the chairman of the department.

Management (Mgt.)

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.

3115 Operations and Information Systems (3) Prereq: Acct. 2001 and QM 2001. Systems analysis, design, implementation, and dynamics; management information systems: fundamental characteristics and problems associated with operations of any organization, such as facilities location, aggregate output planning, inventory control, scheduling, and quality control. Peters, Oliva, Williams

3127 Collective Bargaining in the Private Sector (3) Analysis of limitations placed on managerial prerogatives by collectively bargained agreements in the private sector. Leap, Fletcher

3159 Management Principles and Policies (3) Credit will not be given for both this course and Mgt. 4159. Nature and principles of management; problems of policies, organizations, operations, and external relationships.

3190 Business Policies and Problems (3) Prereq: Mgt. 3159, Mkt. 3401, and Fin. 3715. May be taken ONLY during the final semester of coursework. Also offered as BAdm 3190. Specific problems involved in formulation of consistent business policies and maintenance of an efficient organization; actual cases used as basis for discussions and preparation of reports which call for executive decision-making. Wallin, Kedia

3193 Business and Society (3) Prereq: senior standing. Analysis of problems involved when social roles are required of organizations where a primary function is the accumulation of profits; emphasis on current issues; historical development of business-society relationships. Kedia, Leap

3270 Independent Study: Advanced Management Topics (1-6) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. Independent research in any area of management under direction of a faculty member.

4125 Analysis of Organization and Information Systems (3) No prior programming experience required. Systems problems related to accounting, management, marketing, production, organization theory, economics, and electronic data processing; systems design and analysis project using computer simulation language. Oliva, Leap

4128 Collective Bargaining in the Public Sector (3) Analysis of the special problems and issues in public sector bargaining; focus on those aspects different from private sector bargaining. Fletcher, Leap

4130 Government Regulation of Human Resource Management (3) Analysis of the impact of federal legislation on human resource managers; emphasis on hiring, retention, and promotion policies of employers. Leap, Fletcher

4140 Multinational Management (3) Prereq: Mgt. 3159 or consent of instructor. Management concepts, analytical processes, and philosophical bases for international management operations; emphasis on environmental dynamics, multinational businesses, and institutional structures and processes, and conceptual systems of international organizations. McCann, Leap

4159 Analysis of Organizations and Management (3) Offered for the M.B.A. student (and others intending to enter the program) without previous coursework 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) Contributions of behavioral sciences applied to understanding of interpersonal relationships in business; philosophies, theories, and concepts of human aspects of American business as distinguished from economic and technical aspects; how these factors influence efficiency, morale, and business practices; group dynamics; effects of informal organization as opposed to formal organization. Harris, McCann

4167 Personnel—Human Resources (3) Personnel functions: personnel planning, recruitment, selection, development, utilization, maintenance, and reward of employees; relationships with environment and employee associations. Leap, Fletcher

4168 Operations Management (3) Prereq: Mgt. 3115. Specific problems in operations management, e.g. scheduling, inventory control, and quality control; includes cases and computer models. Peters
4170 Compensation Administration (3) Prereq: Mgt. 4167. Quantitative and nonquantitative methods of job evaluation, wage level, wage structure, incentive plans, and contemporary issues of employee compensation. Fletcher, Leap

5072 Business Communication—I (1) Sources and use of secondary business information; problems and analysis; organization, makeup, and writing of business reports. Golen*

5073 Business Communication—II (1) Also offered as Sprech. 5060. Analysis and application of business knowledge to administrative reporting problems; instruction and practice in oral presentation of administrative reports; résumé preparation.

5220 Administrative Theory and Behavior (3) Management fundamentals and organizational behavior; structure, processes, behavior in, and development of organizations. Wallin

7140 International Business Management (3) Theories and practice of international business; management of international operations; development of international, operational, strategic, and decision-making perspectives relative to functional areas of business in an international context. Kedia

7200 Research Methods and Reports (3) Prereq: QM 3001 or equivalent. Also offered as Mkt. 7200. Methods of primary research as used in business; major sources of business information; analysis, organization, and writing of research reports; problem work in the major forms of business research.

7205 Business and Society (3) Role of business in the broader societal context; changes occurring in business and resulting modifications of the relationship of business to society; roles of business as viewed by business and by society. Gray

7210 The Development of Management Thought (3) Origin and growth of managerial philosophies, theories, principles, and concepts; contributions of the leaders of the main channels of thought, including scientific management, the process approach, behavioral sciences, quantitative methods, systems, and other past and present approaches to management theory. Harris

7218 Organization Development (3) Theories, strategies, and techniques for improving effectiveness of organizations through improved interpersonal and person-group relationships; analytical observation of behavior of ingroup task situations; managerial behavior topics covered by experiential laboratory exercises and a major outside experience project. McCann

7240 Organization Theory (3) The macro aspects of organizations; processes by which organizations are formed, structures used in their elaborations; internal processes of organizations, environmental considerations, conditions of organization viability and renewal.

7241 Organizational Behavior (3) Behavior of people within organizations; special concentration on the environment within which organizations functions, components of the behavioral unit, processes, interactions, and outputs of organizational behavior. Harris

7260 Seminar in Administrative Communication Theory (3) Administrative communication and communication theory as it relates to organizations.

7265 Advanced Operations Management (3) Prereq: Mgt. 5268 or equivalent. Operations management topic(s) such as: material requirements planning, inventory control, scheduling, facilities location and layout, quality control, job design, industrial design, network analysis; emphasis on application of techniques. Peters, Williams

7267 Seminar in Personnel—Human Resources (3) Role of personnel executives; emphasis on their relationships to employees, employee associations, external environment, organizational environment. Fletcher, Leap

7268 Operations Management (3) Prereq: QM 5014 and 7001. Analysis of major problems and decision processes of operations management: operations design, resource allocation, activity planning, systems control, process and facility planning, quality control, scheduling, production and inventory control, and planning and control of aggregate output.

7269 Systems Management (3) General systems concept in depth, its application to understanding of the management of human organizations; isomorphism, entropy, information, cybernetics, law of requisite variety, management information systems, systems ecology, testing of management systems, effects of computers on systems and an overview of some of the quantitative techniques which may be used in systems analysis and design as they relate to human organizations. Oliva

7270 Seminar in Advanced Business Problems (3) May be taken twice for credit. Directed work in advanced management topics.

7280 Seminar in Policy Formulation and Administration (3) Integration of material learned in the functional and tool areas of business; extensive use of case studies and field projects to provide a top management perspective of the business enterprise. Gray

7300 Labor Management Relations (3) Designed primarily for master's level students. Collective bargaining and strategies, public policy, and current issues in the public and private sectors. Fletcher, Leap

8000 Thesis Research (1-9 per sem.)

8900 Predissertation Research (1-9) May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-9 per sem.)

DEPARTMENT OF MARINE SCIENCES

CHAIRMAN: Gosselink, Professor

PROFESSORS: Coleman, Ford, Hsu, Murray, Patrick, Roberts, Stone, Van Lopik, Young

ASSOCIATE PROFESSORS: Bahr, Bayley, Day, Gambrell, Rouse, Schweitzer, Turner, Wiseman

OFFICE: 116 Wetland Resources Building
Marine Sciences (MrSc)

4010, 4011 Marine and Wetland Ecology for Teachers (3,3) Credit for this course can be applied only to professional degrees in education. Specifically for science and social science teachers. Marine sciences and wetland ecology; emphasis on the Louisiana coastal zone. Schweitzer

4020 Introduction to Marine Sciences for Graduate Students (3) 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. Gosselin

4041 Salt Marsh Ecology (4) Prereq: general botany and 10 semester hours of biology. Offered summer only. Four weeks at Gulf Coast Research Laboratory, Ocean Springs, Miss. 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. Eleuterius*

4086 Marine Food Resources and Technology (3) See FedSc 4086. Meyers**

4126 Chemical Oceanography (3) See Geol. 4081. Whelan***

4170 Physical Oceanography (3) 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. Rouse

4171 Coastal and Marine Meteorology (3) Prereq: Math 1052, Phys. 2102; and graduate standing or consent of instructor. Dynamical and physical behavior of the atmosphere; application of basic laws and concepts of physics; flow characteristics and thermodynamic processes, as well as the chemistry, electricity, and radioactivity of the marine atmosphere. Hsu

4372 Estuarine Ecology (3) 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. Day

4464 Marine Resources Law—1 (1-4) Also offered as Law 5414. Legal, political, and scientific aspects of exploitation of ocean resources and general use of the ocean, including concepts of freedom of the high seas, territorial waters, special contiguous zones, ocean space boundaries, the continental shelf, deep seabed mining, nonexclusive uses of ocean space, state-federal disputes over marine resources in submerged lands, international fisheries management, scientific research, military interests, and pollution of the marine environment. Knight****

4465 Seminar in Coastal Zone Management (1-4) Also offered as Law 5803. Non-law students encouraged to participate. Written and oral presentation required. Multidisciplinary investigation into specific resources allocation and environmental quality issues arising in the coastal and estuarine zones of the U.S.; resource manager's role in evaluating alternative solutions to topical coastal zone issues and preparing legal devices for meeting the issues, such as legislation, regulations, contract provisions, and deed restrictions; aspects of traditional law courses in water law, environmental law, natural-resources law, and land-use planning as applied to the coastal zone; special projects relating to the primary field of interest permitted.

7010 The Concepts of the Ecosystem (3) Prereq: one-semester course in ecology or consent of instructor. Principles of structure, function, diversity, and succession of ecosystems viewed as a whole and as applied to major biomes. Turner

7016 Coastal and Shallow-Water Literature (3) Weekly conferences. Individual and group-assigned readings concerning availability and content of source references. Roberts

7028 Numerical Modeling of Ocean Circulation (3) Prereq: MrSc 4170 or ME 4563 or equivalent. Numerical modeling of ocean dynamics; numerical methods; parameterization schemes; review of state-of-art models. Roberts

7120 Introduction to Coastal Models (3) Prereq: ME 4553 or equivalent, and consent of instructor. MrSc 4170 recommended. Derivation of models for different modes of water motion in the coastal region from basic dynamic and kinematic principles, scale analyses, and physical arguments; examination of assumptions and range of validity of each model; physical, not mathematics, stressed; where available, solutions compared with observed motions. Wiseman

7122 Gravity Waves in Shallow Water (3) Prereq: Math 1050, 1052; Phys. 2101, 2102; and consent of instructor. Linear and nonlinear theories of water gravity waves considered by classical mathematical derivation and numerical methods; emphasis on wave transformation in shallow water, characteristics of boundary layer under wave action, and selected topics of wave-related phenomena in nearshore zone. Murray

7125 Estuarine and Shallow-Water Oceanography (3) Prereq: consent of instructor. Offered in alternate years. Wind-driven and mass-driven currents in estuaries, turbulence and mixing in estuaries, seiches, storm surges, internal waves, salt balance, and inlet flows. Murray

7127 Dynamics and Sedimentary Response Features of Coastal Environments (3) Interactions between major dynamical forcing mechanisms and sedimentary-geomorphic responses in several major types of coastal environments (deltas, sandy coasts, and coral-reef coasts); variability of physical processes and corresponding response features. Roberts

7131 Geochemistry of Coastal Water, Soils, and Sediments (3) Prereq: Chem. 1421 and 1431, or equivalents. Offered in alternate years. Chemical principles in relation to the chemical system in coastal environments; nutrient
cycling in relation to biological activities and marine food chain; sediment diagenesis and physical behavior of sediments.

Gambrell

7132 Coastal Physical/Chemical Systems: Analytical Methods (3) Prereq: MrSc 7131 or consent of instructor. Offered in alternate years. 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 in water; techniques tested and evaluated in terms of application of results to understanding of natural environmental systems.

Gambrell

7142 Coastal Climatology (3) See Geog. 7942.

7165 Chemistry and Microbiology of Flooded Soils and Sediments (3) Same as Agro. 7065. Chemical and microbiological changes in fresh water, brackish water, and estuarine-flooded soils and sediments affecting availability of nutrients and growth of plants.

Patrick

7209 Coastal Swamps and Marshes (3) 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) Prereq: advanced standing in coastal oceanography or consent of instructor. Also offered as Geog. 7910. Environmental approach to coastal morphology.

Gagliano*

*Associate Professor of Marine Sciences (part-time).

DEPARTMENT OF MARKETING

CHAIRMAN: Hair, Associate Professor
PROFESSOR: Reddoch
ASSOCIATE PROFESSORS: Burns, Bush, Endsley, Harrison
ASSISTANT PROFESSOR: DeVere

A prerequisite for any marketing course may be waived in an exceptional case with consent of the instructor and approval of the department chairman.

3401 Principles of Marketing (3) Prereq: Acct. 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 at both macro and micro levels; viewpoint of society, consumer, and marketing manager.

3411 Consumer Analysis and Behavior (3) Prereq: Mkt. 3401. Nature and dynamics of consumer markets and significance of these markets to marketing executives; concepts and constructs employed to identify and measure market segments and to analyze behavioral patterns of these segments as a basis for marketing strategy.

3413 Marketing Research (3) Prereq: Mkt. 3401. Application of research to marketing problems; use of findings in formulation of marketing policies; theories, concepts, and methodology involved in applying research to marketing problems.

3427 Buyer-Seller Communication (3) Prereq: Mkt. 3401. Fundamentals of communication theory and correct sales principles needed for successful sales career; buyer behavior and sales tactics; development and implementation of sales strategies; communication in buyer-seller relationships.

3445 Internship in Marketing (1-6) Prereq: consent of department chairman. Primarily for seniors in marketing. On-the-job experience in approved marketing positions.

3477 Independent Study: Advanced Marketing Problems (1-6) For undergraduate students in the College of Business Administration with a grade-point average of 3.00 or above. Independent research in any area of marketing under direction of a faculty member.
Marketing Communication: Selling and Advertising (3) Prereq: Mkt. 3401. Nature, scope, and contributions of personal selling and advertising to the firm's problems of demand stimulation; principles and concepts related to integration and organization of promotional effort to facilitate movement of goods.

Sales Management (3) Prereq: Mkt. 3401. Principles and concepts of sales planning and control; organizing sales departments, developing territories, motivating salespersons, and controlling sales operations.

The Management of Business Logistics Systems (3) Prereq: Mkt. 3401. Integrated physical distribution systems; physical distribution functions including transportation, warehousing, inventory control, material handling, purchasing, production planning, and information systems; a systems analysis and system modeling perspective.

Retailing Management (3) Prereq: Mkt. 3401. Store organization, operation, and management; retail method of inventory; problems connected with retail buying and selling.

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; future trends.

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.

International Marketing (3) Prereq: Mkt. 3401. Global marketing environment, concepts, and analytical processes; global marketing as all-encompassing (import-export, joint ventures, foreign subsidiaries, licensing, management contracts); marketing systems in various countries; marketing strategy for international and multinational operations.

Marketing Management (3) Prereq: senior standing or consent of instructor. Application of analytical concepts and principles to development of efficient strategies for solving marketing problems; major policy areas of product, price, channels, and promotion integrated in development of the firm's total marketing effort.

Advanced Retailing Management (3) Prereq: Mkt. 3401 and 4431. Continuation of concepts developed in Mkt. 4431; merchandise management planning; retailing audit, store promotion; franchise retailing; impact of consumer behavior on retailing management decisions.

Research Methods and Reports (3) See Mgt. 7200.

Marketing Strategy (3) Design, implementation, and evaluation of marketing strategy; 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.

Marketing Environment (3) Marketing environment, its changing nature, and impact on marketing strategy and decision making; marketing's role in society, social marketing, marketing's social responsibility, consumerism, marketing and quality of life, government and political impact, societal interfaces of the marketing mix; physical, economic, technological, cultural, and political environments.

Management of Marketing Institutions (3) May be taken twice for credit. Marketing institutions; includes retailing management and research, wholesaling management and research, distribution channels, structure and management research, and physical distribution systems research.

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.

Seminar in Advanced Marketing Problems (3) May be taken 3 times for credit. Topics may include consumer behavior and consumerism, promotion and communication, marketing research, international marketing, industrial marketing, and other areas of interest.

Marketing Administration (3) Prereq: QM 5014 and 7001. All areas of marketing decision making; introduction to marketing systems; marketing research; environment of marketing; marketing planning, programming, and forecasting; managing marketing decision variables; and marketing control and evaluation.

Advanced Marketing Research (3) Prereq: Mkt. 7711 or Mkt. 4451; and QM 7024 or equivalent. Marketing research methods used to investigate marketing problems and design of marketing strategies; marketing opportunity analysis, market position assessment, image studies, observational studies, product design, advertising effectiveness, pricing, and other marketing decision-related research; design, execution, and practical use of marketing research.

Analysis of Consumer Behavior (3) Prereq: Mkt. 4451 or 7711. Analysis of psychological, sociological, social-psychological, and anthropological foundations of consumer behavior; application of these, other marketing-originated concepts, and empirical results to marketing management decisions and planning.

Advertising Management (3) Prereq: Mkt. 4421 or equivalent. Systematic approach to advertising decision making; decision-making responsibilities inherent in managing the advertising function; advertising opportunities, identification of needed information, development of a decision framework, delineation of economic and societal interfaces.

Thesis Research (1-9 per sem.)

Predissertation Research (1-9) May be repeated for credit.

Dissertation Research (1-9 per sem.)
DEPARTMENT OF MATHEMATICS

Chairman: McGeehe, Professor
ALUMNI PROFESSOR: Butts
BOYD PROFESSOR: Anderson
NICHOLSON PROFESSOR OF MATHEMATICS: Conner
PROFESSORS: Altman, Collins, Dorroh, Griffin, Keisler, Koch, Lawson, Madison, Mitchell, Ohm, Retherford, Scholz, Wade
ASSOCIATE PROFESSORS: Casler, Cordes (Vice-Chairman), Curtis, Hildebrant (Vice-Chairman), Kuo, Lax, Nobile, Reid, Richardson, Stoltzfus, Weintraub
ASSISTANT PROFESSORS: Fabec, Graff, Hoffman, Hooton, Lindley, Portiz, Witten
INSTRUCTORS: Bergman, Cangelosi, Chen, Conners, Davis, Dougherty, Fowler, Garza, Hurt, Jones, Koehl, Marx, Michael, Moreman, Ozaki, Sadler, Shad, Sullivan, Suh, Turner, Vidrine, White, Winslow

Students concentrating in mathematics will not receive degree credit for mathematics courses numbered below 1050, and they must take a minimum of 31 hours in mathematics courses. Included in this minimum must be Math 1050 (or 1051), 1052 (or 1053), 2057 (or 2058), and 2085 (or 2086), plus courses (as specified below) to fulfill the chosen emphasis.

For advanced courses in mathematics, the student may choose to fulfill either a mathematics emphasis or a computer science emphasis. The mathematics emphasis requires Math 4022, 4031, 4032, and two courses selected from Math 4027, 4036, 4039, 4055, 4063, 4065, 4153, 4171, 4172, 4181, and 4999. The computer science emphasis requires Math 4023, 4055, and 2065 or 4027; two courses selected from Math 4020, 4024, 4025, 4060, 4065, 4171, and 4172; CSc 2252; CSc 2262 or 2263; and six hours selected from CSc 2280 and computer science courses numbered above 3000.

All students concentrating in mathematics are advised to include 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.

No student may receive more than nine semester hours of credit in mathematics courses numbered below 1050. No student who has already received credit for a mathematics course numbered 1050 or above may be registered in a mathematics course numbered below 1050, unless given special permission by the Department of Mathematics. Credit will be given for only one of Math 1011, 1021, and 1023; for only one of Math 1012, 1022, and 1023; for only one of Math 2065 and 2090; for only one of Math 2085 and 2090; and for only one of Math 4006, 4022, and 4023.

Honors courses offered in mathematics are Mathematics 1051, 1053, 2058, and 2086. A special curriculum leading to the B.S. degree with honors in mathematics is offered. Details are available from the departmental office.

Mathematics (Math)

0004 Introduction to College Algebra—I (2.5) Prereq: consent of, or assignment by, Department of Mathematics. 3 hrs. lecture; 2 hrs. recitation/lab for one-half semester. For students not prepared to take Math 1021. 2.5 sem. hrs. will be added to the degree program of any student taking this course. Not for degree credit. Arithmetic of real numbers and beginning algebra.

0005 Introduction to College Algebra—II (2.5) Prereq: Math 0004 or placement by Department of Mathematics. 3 hrs. lecture; 2 hrs. recitation/lab for one-half semester. For students not prepared to take Math 1021. 2.5 sem. hrs. will be added to the degree program of any student taking this course. Not for degree credit. Factoring of polynomials; operations on algebraic fractions and radical expressions; solving linear and quadratic equations.

1006 Mathematics of Business (3) Prereq: Math 1011 or 1021. Mathematics of commerce, e.g., interest and discount, annuities, depreciation, and insurance.

1009 Introductory College Mathematics—I (3) Primarily for prospective elementary school teachers. Natural numbers, counting numbers, and rational numbers, with emphasis on field properties; set nomenclature and some number theory.

1010 Introductory College Mathematics—II (2.5) Prereq: Math 1009. Primarily for prospective elementary school teachers. A continuation of Math 1009; real numbers, ordered field properties, decimals, systems of linear equations.

1011 Algebra (3) Primarily for students not intending to continue into calculus. Credit will not be given for both this course and Math 1021 or 1023. Topics from algebra.

1012 Algebra and Trigonometry (3) Prereq: Math 1011 or consent of department. Primarily for students not intending to continue into calculus. Credit will not be given for both this course and Math 1022 or 1023. Topics from algebra and trigonometry.

1019 Geometry for Elementary School Teachers (3) Intuitive geometry to provide background necessary for the modern elementary school curriculum.

1021 Algebra (3) Prereq: Math 0005 or placement by department. Credit will not be given for both this course and Math 1011 or 1023.

1022 Plane Trigonometry (3) Prereq: Math 1021 or consent of department. Credit will not be given for both this course and Math 1012 or 1023.

1023 Elementary Functions (5) Prereq: placement by department. Credit will not be given for both this course and Math 1011, 1012, 1021, or 1022. Sets and relations, functions, theory of equations, algebraic functions, exponential and logarithmic functions, trigonometric functions, and multivariable functions.

1031 Calculus with Business and Economic Applications (3) Prereq: Math 1021 or consent of department. Credit will not be given for both this course and Math 1041.
or 1050. Differential and integral calculus of algebraic functions; application to economic models and probability.

1035 Finite Mathematics with Business and Economic Applications (3) Prereq: Math 1031 or consent of department. Set theory, probability, and vectors and matrix algebra, with application to business.

1041 Brief Calculus with Application to Technology (3) Prereq: Math 1021 and 1022, or 1023, or consent of department. Credit will not be given for both this course and either Math 1031 or 1041. Differentiation and integration of algebraic and trigonometric functions; application to technology.

1050 Analytic Geometry and Calculus—I (5) Prereq: Math 1022 or 1023 or consent of department. An honors course. Math 1051, is also available. Credit will not be given for both this course and either Math 1031 or 1041. Analytic geometry, limits, derivatives, integrals.

1051 HONORS: Analytic Geometry and Calculus—I (5) Same as Math 1050, with special honors emphasis for qualified students.

1052 Analytic Geometry and Calculus—II (5) Prereq: Math 1050. An honors course. Math 1053, is also available. Conics, arc length, transcendental functions, coordinate systems, infinite series.

1053 HONORS: Analytic Geometry and Calculus—II (5) Same as Math 1052, with special honors emphasis for qualified students.

2019 Fundamentals of Mathematics (3) Prereq: Math 1050. The historical and logical development of various systems of mathematics, including number theory, Euclidean and non-Euclidean geometries, topology, and calculus.

2057 Multidimensional Calculus (3) Prereq: Math 1052. An honors course. Math 2058, is also available. Three-dimensional analytic geometry, partial derivatives, multiple integrals.

2058 HONORS: Multidimensional Calculus (3) Same as Math 2057, with special honors emphasis for qualified students.

2065 Elementary Differential Equations (3) Prereq: Math 1052. Credit will not be given for both this course and Math 2090. Ordinary differential equations, with emphasis on solving linear differential equations.

2085 Linear Algebra (3) Prereq: Math 1052 or 2019 or consent of department. 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.

2086 HONORS: Linear Algebra (3) Same as Math 2085, with special honors emphasis for qualified students.

2090 Elementary Differential Equations and Linear Algebra (4) Prereq: Math 1052. Credit will not be given for both this course and Math 2065 or 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) Prereq: consent of department. May not be repeated for credit.

3998 Undergraduate Major Seminar (1) May be taken 4 times for credit. Pass-fail grading. Presentation and discussion of topics of current interest.

4005 Geometry (3) Prereq: Math 2019. The foundations of geometry, including work in Euclidean and non-Euclidean geometries.

4006 Algebra (3) Prereq: Math 2019. Credit will not be given for both this course and Math 4022 or 4023. Fundamentals of algebra, including topics in modern algebra.

4016 Topics in Advanced Calculus (3) Prereq: Math 2057. Credit will not be given for both this course and Math 4031. Series, uniform convergence, implicit function theory, change of variable, vector analysis, and integration.

4020 Deductive Systems (3) Prereq: Math 1052 or 2019. Set theory, functions, and Boolean algebra illustrating axioms, theorems, and methods of proof.

4022 Abstract Algebra (3) Prereq: Math 2085 or consent of department. Credit will not be given for both this course and Math 4006 or 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) Prereq: Math 2085 or consent of department. Credit will not be given for both this course and Math 4006 or 4022. Finite algebraic structures relevant to computers: groups, graphs, groups and computer design, group codes, semigroups, finite-state machines.

4024 Mathematical Models (3) Prereq: Math 1052 and credit or registration in Math 2085, or consent of department. 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) Prereq: Math 2057 and credit or registration in Math 2085; or consent of department. 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) Prereq: Math 2057 and 2085. Ordinary differential equations, with attention to theory.

4031 Advanced Calculus—I (3) Prereq: Math 2057 and 2085; or consent of department. Credit will not be given for both this course and Math 4016. Differential and integral calculus of real and vector-valued functions of several real variables.

4032 Advanced Calculus—II (3) Prereq: Math 4031 or consent of department. Vector integral calculus, Stokes’s Theorem, series, orthogonal functions, selected related topics.
4036 Complex Variables (3) Prereq: Math 2057. Analytic functions, integration, power series, residues, and conformal mapping.

4037 Mathematical Methods in Engineering (3) See ME 4553.

4038 Mathematical Methods in Engineering (3) See ME 4563.

4039 Introduction to Topology (3) Prereq: Math 4031 or consent of department. Examples and classification of two-dimensional manifolds, covering spaces, the Brouwer theorem, and other selected topics.

4055 Introduction to Probability and Statistics (3) Prereq: Math 2057. Credit will not be given for both this course and Math 7310. Also offered as ExSt 4055. An axiomatic approach to probability theory; binomial distribution, random sampling, (weak) Law of Large Numbers, Central Limit Theorem, hypothesis testing, regression.

4056 Mathematical Statistics (3) Prereq: Math 4055. Also offered as ExSt 4056. A continuation of Math 4055. Multinomial and Poisson distributions, experimental design, various sampling methods, nonparametric methods.


4063 Theory of Orthogonal Functions (3) Prereq: six hours of mathematics beyond Math 2057 or consent of department. Linear spaces, Fourier series, Legendre polynomials, and Bessel functions.

4065 Numerical Analysis (3) Prereq: Math 2057.

4153 Finite Dimensional Vector Spaces (3) Prereq: Math 2057.

4158 Foundations of Mathematics (3) Prereq: Math 2057 and consent of department. Real number systems, sets, relations, product spaces, order, and cardinality.

4171 Theory of Graphs (3) Prereq: Math 2085 or consent of department. Fundamental concepts of undirected and directed graphs, trees, connectivity and traversability, planarity, colorability, network flows, matching theory, and applications.

4172 Combinatorics (3) Prereq: Math 2085 or consent of department. 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) Prereq: Math 2057.

4999 Selected Readings in Mathematics (1-3) Prereq: consent of department. May be repeated for credit for a maximum of 9 sem. hrs.

7200 Geometric and Abstract Algebra (3) Prereq: Math 2085 or consent of department. Linear algebra, rings, finite fields, groups, multilinear algebra, other topics.

7210-7211 Algebra—I, II (3,3) Prereq: Math 7200 or consent of department. 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) 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) Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics, such as algebraic number theory, algebraic semigroups, quadratic forms, or algebraic K-theory.

7300-7301 Elementary Classical Analysis—I, II (3,3) Prereq: Math 2057 or consent of department. Real number system, topology of Euclidean space, continuous functions, convergence, series, differentiation and Riemann-Stieltjes integration on the line, differentiation and Riemann integration on Euclidean space, other topics.

7310 Elementary Probability Theory (3) Prereq: Math 2057 or consent of department. Credit will not be given for both this course and Math 4055. Elements of combinatorial analysis, random walks, conditional probability, stochastic independence; binomial, Poisson, and normal distribution; limit laws; other topics.

7320 Ordinary Differential Equations (3) Prereq: Math 2085 and 7300, or consent of department. Existence and uniqueness theorems, approximation methods, linear equations, linear systems, stability theory, other topics such as boundary value problems.

7330 Functional Analysis (3) Prereq: Math 7301 or consent of department. 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.

7340 Probability, Measure, and Integration (3) Prereq: Math 7301 or consent of department. Probability spaces, random variables, expectation, convergence of random variables, LP spaces, Riesz-Markov Theorem, product measures, transition probabilities, Fubini’s Theorem, Radon-Nikodym Theorem; other topics such as conditional expectation, independence, Martingale theory, projective limits of probability measures.

7350 Complex Analysis (3) Prereq: Math 7301 or consent of department. Theory of holomorphic functions of one complex variable; path integrals, power series, singularities, mapping properties, normal families, other topics.

7380 Seminar in Functional Analysis (1-3) 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) 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) Prereq: Math 7200 or consent of department. Problems of existence and enumeration in the study of arrangements of elements into sets; review of 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) 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) Prereq: Math 7200 and 7300, or consent of department. Basic concepts of homology, cohomology, and homotopy theory.

7550 Differential Geometry (3) Prereq: Math 7200 and 7300; or consent of department. Manifolds, vector fields, Frobenius Theorem, exterior calculus, Stokes's Theorem, Riemannian geometry, other topics.

7590 Seminar in Geometry and Algebraic Topology (1-3) 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.

7600 General Topology (3) Prereq: Math 7300 or consent of department. Topological spaces, continuous functions, compactness, connectedness, products, separation, metrizability, completeness, paracompactness, function spaces, fundamental groups, covering spaces, other topics.

7680 Seminar in Geometric and Infinite-Dimensional Topology (1-3) 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) Prereq: consent of department. May be repeated for credit with consent of department. Advanced topics such as topological groups, topological semigroups, or topological lattices.

7999 Selected Readings in Mathematics (1-3) Prereq: consent of department. May be repeated for credit with consent of department.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

DEPARTMENT OF MECHANICAL ENGINEERING

CHAIRMAN: Sharpe, Professor

PROFESSORS: Armas, Daniel, Maples, Matula, McPhate, Miller, Raman, Sabbaghian, Scholz, Thompson, Whitehouse

ASSOCIATE PROFESSORS: Adler, Brewer, Courter, Oliver, Yannitell

ASSISTANT PROFESSORS: Cundy, Elfer, Sehitoglu, Shelton

OFFICE: 2508 CEBA Building

Mechanical Engineering (ME)


2333 Principles of Thermodynamics—1 (3) Prereq: Phys. 2102 and Math 1052; or equivalents. Required for students majoring in mechanical engineering. Basic laws of thermodynamics and behavior of gases and vapors.

2603 Manufacturing Processes (3) Prereq: EGr 1001 or equivalent. 2 hrs. lecture; 3 hrs. lab. Capabilities and limitations of machines and processes for production planning or designing machinery, mechanical parts, and systems.

2833 Fluid Mechanics (3) Prereq: CE 2450. Same as CE 2200. Statics and dynamics of compressible and incompressible fluids; energy and momentum principles; dimensional analysis; laminar and turbulent flow; elements of potential flow.

3133 Dynamics (3) Prereq: CE 2450 and Math 1052. Vectorial treatment of kinematics and kinetics of particles and rigid bodies; impulse and momentum; work and energy.

3333 Thermodynamics (3) Prereq: Phys. 2102 and Math 1052 or equivalents. Not open to students majoring in mechanical engineering. Basic laws of thermodynamics, availability, perfect gases and pure substances, fluid flow, and basic heat transfer.

3711 Materials of Engineering Laboratory (1) Prereq: credit (preferably) or registration in ME 3733. 3 hrs. lab. Demonstrative and participative experiments to develop better understanding of characteristics of metals, ceramics, and plastics.

3733 Materials of Engineering (3) Credit will not be given for both this course and ME 3743. Engineering materials and theories explaining their responses to various environments; emphasis on metals and alloys, especially plain carbon and alloy steels; selection of suitable materials for engineering applications.

3743 Introduction to Materials Science (3) Credit will not be given for both this course and ME 3733. Basic principles relating properties and behavior of many engineering materials to their structures and environments.

3901 Senior Seminar (1) Prereq: senior standing in mechanical engineering or equivalent. Weekly meetings to
discuss employment, professional registration, consulting activities, ethics, etc.; student papers on topics of current interest in mechanical engineering.

3903 Special Projects for Undergraduates (3, 6, or 9)
Prereq: consent of department. Library research, comprehensive design problems, and laboratory investigations.

4013 Nondestructive Testing (3) Prereq: credit or registration in EE 3930 or equivalent physics courses; or equivalent. 2 hrs. lecture; 3 hrs. lab. Also offered as NS 4494. Tests which will not alter serviceability of finished products while testing for discontinuities that might affect end use of the product; experiments require applications of optics, sound electrical and electronics systems, nuclear radiations, and other natural phenomena.

4103 Kinematics and Dynamics of Machines for Technology (3) Prereq: Math 1050 or equivalent. 2 hrs. lecture; 3 hrs. lab. For students majoring in basic engineering design technology and 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 (3) Prereq: Csc 2262 and ME 3133; or equivalents. Kinematic analysis and synthesis of mechanisms.

4143 Dynamics of Machinery (3) Prereq: ME 4543 and credit or registration in ME 4133; or equivalents. Three-dimensional kinematics and dynamics; vibrations and automatic controls.

4153 Kinematic Synthesis of Mechanisms (3) Prereq: ME 4133 or equivalent or consent of instructor. Dimensional synthesis of mechanisms, design of mechanical linkages, equations of constraint for planar mechanisms, analytical and graphical methods of solutions of typical mechanisms, error analysis, and organization of mechanism design.


4173 Dynamics of Oscillating Systems (3) Prereq: ME 3133 and CE 3405. Basic principles of oscillating systems; multi-degree of freedom systems and one-dimensional continuous systems; applications to mechanical, electrical, and acoustical problems.

4201 Mechanical Engineering Laboratory (1) Prereq: registration in ME 4233 or equivalent. 3 hrs. lab.

4203 Mechanical Engineering Problems (3) Prereq: ME 4433 and 4434 and credit or registration in ME 4233 and 4632; or equivalents. 2 hrs. lecture; 3 hrs. lab. Application of basic principles of heat transfer, fluid and mass flow, thermodynamics, electrical engineering, and economics to assigned problems; analysis, synthesis, and design of engineering systems and processes.

4213 Mechanical Engineering Design (3) Prereq: credit or registration in ME 4233 or equivalent. 2 hrs. lecture; 3 hrs. lab. Joint participation with industrial firms in the vicinity of the University. Current problems from industrial firms introduced and completed in one semester by student groups.

4233 Machine Design (3) Prereq: ME 2603, 3733, 4133, 4143, CE 3405, and credit or registration in ME 3711; or equivalents. Principles and practice of mechanical design.

4243 Computer Graphics (3) See EGr 4243.

4253 Applied Interactive-Graphic Computer-Aided Design (3) See EGr 4255.

4343 Principles of Thermodynamics—II (3) Prereq: ME 2333 or equivalent. Application of principles of thermodynamics to classical vapor and gas cycles, equations of state, combustion, and equilibrium.

4353 Advanced Engineering Thermodynamics (3) Prereq: ME 4343 or equivalent or consent of instructor. Postulational treatment of the laws of thermodynamics; equilibrium and maximum entropy postulates; development of formal relationships; principles and application to general systems.

4401 Mechanical Engineering Laboratory (1) Prereq: ME 4601 and 4433; or equivalents. 3 hrs. lab. Written and oral presentations. System analysis and independent experimentation.

4433 Heat Transfer (3) Prereq: ME 2333 or 3333, ME 4543 or Math 2057, and ME 2833 (cross-listed as CE 2200); or equivalents. Principles of heat transfer by conduction, radiation, and convection.

4443 Gas Dynamics (3) Prereq: ME 4343 and Math 2065; or equivalents. Derivation and review of basic equations of compressible fluid flow, concept of boundary-layer theory and potential-flow theory, reduction of the general problem to 1-D flow, study of 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.

4533 Engineering Use of Electronic Computers (3) Prereq: Csc 2262 or Engr 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 of basic importance common to all engineers; using numerical methods including solutions to linear and nonlinear differential equations, least-squares approximation, interpolations, and integration.

4543 Mechanical Engineering Analysis (3) Prereq: Math 2065 or equivalent. Mathematical methods and their specific application to engineering problems in static and dynamic systems, transient and steady-state heat flow, fluid flow, motion, and dynamic response of elastic beams.

4553 Mathematical Methods in Engineering (3) Prereq: Math 2057 or consent of instructor. Also offered as Math 4037. Several branches of applied mathematics—ordinary differential equations, linear algebra, vector analysis—with physical applications.

4563 Mathematical Methods in Engineering (3) Prereq: ME 4553 or consent of instructor. Also offered as Math 4038. Several branches of applied mathematics—
partial differential equations, Fourier series and orthogonal functions, and tensor methods.

4601 Mechanical Engineering Laboratory (1) Prereq: ME 2833 (cross-listed as CE 2200) and EE 3910; or equivalents. 3 hrs. lab. Written and oral presentations. System analysis and independent experimentation.

4611 Mechanical Engineering Laboratory (1) Prereq: ME 4343 and 4601; or equivalents. 3 hrs. lab. Written and oral presentations. System analysis and independent experimentation.

4632 Engineering Economy (2) Correlation of economic principles with engineering problems.

4633 Internal Combustion Engines (3) Prereq: ME 2333 or 3333 or equivalent. Classification of internal combustion engines, gas turbines, cycles with different components, spark-ignition gasoline engines, detonation, carburation, 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) Prereq: ME 4343 and 4443; or equivalents. Thermal environment as applied to humans, animals, processes, and inanimate objects, and the means of controlling it.

4653 Safety Engineering (3) Prereq: senior standing or equivalent or consent of instructor. Relationship between safety and efficiency of all engineering functions, i.e. design control, planning, layout and arrangement, maintenance, inspections, and job methods.

4663 Power Plant Engineering (3) Prereq: ME 4343 and 4443; or equivalents. Power plants for industrial and central-station use; emphasis on cycles, design, capabilities, and economics of the plant as a whole; components used in various types of plants.

4673 Theory and Design of Automatic Control Systems (3) Prereq: senior standing and ME 4543 or equivalent or consent of instructor. Basic principles and concepts of feed-back control systems studied by correlating theory with practical aspects; emphasis on underlying theory and mathematical techniques.

4723 Fundamentals of Corrosion Science and Engineering (3) Prereq: ME 3733 or 3743 or equivalent, and any first course in thermodynamics. Corrosion principles; polarization, passivation, inhibition, and other phenomena; principal methods used in corrosion prevention.

4943 Introduction to Problems of Aerospace Engineering and Design (3) Prereq: senior standing. Problems of special interest in aircraft, missiles, and spacecraft.

7103 Mechanical Analysis (3) Prereq: CE 3405, EE 3910, ME 4201 and Math 2057; or equivalents. 2 hrs. lecture; 3 hrs. lab. Analytical prediction and experimental verification of strains velocities, accelerations, and jerk in various machine 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) Computational design of mechanical engineering components and systems; optimum performance and design using nonlinear programming with constraints.

7143 Theory of Thermal Stress (3) Prereq: CE 4440 or equivalent or consent of instructor. Origin of thermal stress; external constraints, fundamental equations of uncoupled isotropic thermoelasticity; some solutions of typical thermoelastic problems; properties of materials at high temperatures; problems in creep.

7153 Dynamics of Oscillating Systems (3) Prereq: ME 4173 and credit or registration in Math 4016 or ME 4563. Offered on demand. Continuous systems in several variables; numerical and approximate methods.

7163 Advanced Engineering Dynamics (3) Prereq: ME 3133 and credit or registration in Math 4016. Offered on demand. Vector treatment of particle and rigid body dynamics in three dimensions; Lagrange's equations and Hamilton's principle.

7233 Advanced Machine Design (3) Prereq: ME 4233 or equivalent.

7243 Bearing Design and Lubrication (3) Prereq: ME 4443 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.

7293 Mechanical Engineering Design and Analysis (3) Design and analysis of pressure vessels for high pressure applications; stress analysis and design of turbine rotors; vibration problem in rotors; thermal stresses in machine members; consideration of creep and relaxation in design.

7333 Advanced Thermodynamics—Energy Conversion (3) Prereq: ME 4353 and 4443; or equivalents. Thermodynamics of classical, direct, and nuclear-energy conversion devices.

7343 Advanced Thermodynamics—Irreversible Thermodynamics (3) Prereq: ME 4353 and 4543; or equivalents.

7353 Advanced Thermodynamics—Statistical Thermodynamics (3) Prereq: ME 4343 and 4543; or equivalents. 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) Prereq: Math 4016 or equivalent or consent of instructor. Steady and transient heat conduction.

7443 Advanced Heat Transfer—II (3) Prereq: ME 7473 or equivalent or consent of instructor. Convection heat transfer.

7453 Advanced Heat Transfer—III (3) Prereq: consent of instructor. Radiation heat transfer and advanced topics.

7533 Advanced Engineering Use of Electronic Computers (3) Prereq: ME 4533 or equivalent. Also offered as IE 7533. Computer methods used to solve engineering problems; advanced numerical methods.
7633 Fatigue Considerations in Design (3) Prereq: ME 4233 or equivalent. Designing for finite fatigue life in mechanical elements; environmental effects, corrosive fatigue, stress corrosion, and cumulative fatigue damage.

7643 Theory and Design of Jet Propulsion Devices (3) Prereq: Math 4016 and ME 4443; or equivalents. Liquid and solid propellant rockets; nozzle combustion chamber, injector design, grain design; different types of ram jets, diffuser design, nuclear, magnetohydrodynamic, and ion propulsions.

7701 Electron Microscopy (2) Same as Boty. 7701, Geol. 7701, Mbio. 7701, Zool. 7701. Transmission and scanning electron microscopy and x-ray analysis of biological and nonbiological materials; theory, operation, and application of instruments.

7705 Transmission Electron Microscopy Laboratory: Engineering Materials (2) Prereq: credit or registration in ME 7701, or consent of instructor. 6 hrs. lab. Basic specimen preparation techniques, instrument operation and maintenance, and contrast theory of crystalline material; student selects project related to interests.

7733 Flow and Fracture in Solids (3) Prereq: CE 4440 or consent of instructor. 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 Principles (3) Prereq: ME 3743 or graduate standing. Quantitative evaluation of metallurgical ideas; atomicistic mechanisms, statistical mechanics, dislocation theory, and thermodynamic principles.

7753 Advanced X-Ray Metallography and Electron Diffraction (3) Prereq: ME 3743 or consent of instructor. 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) Prereq: ME 4723 or equivalent. Advanced topics in corrosion: stress corrosion, high temperature corrosion, hydrogen embrittlement, etc.; thermodynamics of surfaces and corrosion.

7783 Advanced Gas Dynamics (3) Prereq: ME 4443 and Math 4036; or equivalents; or consent of instructor.

7743 Boundary Layer Theory (3) Prereq: ME 7863 or equivalent or consent of instructor.

7853 Advanced Boundary Layer Theory (3) Prereq: ME 7843 or equivalent. Non-Newtonian and turbulent fluid mechanics.

7863 Fluid Dynamics (3) Prereq: credit or registration in ME 4563. Offered on demand. Basic flow equations; potential flow; solutions to problems in plane idealized flow by superposition and conformal mapping; lift and drag forces; three-dimensional problems; vortex motion.

7901 Seminar (1-6) 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) Offered on demand. May be taken twice for credit with consent of department. Mechanical engineering treatment of various areas of interest; fluidic controls, control of nonlinear mechanical systems, magnetohydrodynamics, internal and external combustion engines, space-propulsion systems, computer-aided mechanical systems design, environmental control, energy conversion, etc.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

DEPARTMENT OF MICROBIOLOGY

CHAIRMAN: Socolofsky, Professor
PROFESSORS: Braymer, Larson, Siebeling, Srinivasan
ASSOCIATE PROFESSORS: Ambroski, Larkin
ASSISTANT PROFESSOR: Orlowski

Students concentrating in microbiology for the B.S. degree must take Biology 1001, 1002, 1003, 1004; or Botany 1001, 1002; or Zoology 1001, 1002; chemistry courses through 2364; Physics 2001, 2002, 2008, 2009; Microbiology 2051; and at least 16 additional hours, including 12 hours in courses numbered above 3000. To meet the minimum requirement of 24 hours in the field of concentration, 4 hours of credit in Biology 1001, 1002, 1003, 1004, Botany 1001, 1002, or Zoology 1001, 1002 will be accepted as microbiology.

Students intending to do graduate work in microbiology are requested to take Mathematics 1050, 1052, and Zoology 2153, 2154.

Microbiology (Mbio.)

2051 General Microbiology (4) Prereq: Chem. 1001 or 1201. 2 hrs. lecture; 4 hrs. lab. Structure and function of microbial cells and their relationship to people and the environment.

2155 Morphologic Hematology (3) See AllH 2155.

2157 Medical Mycology (3) See AllH 2157.

4110 Introductory Microbial Physiology (3) Prereq: Mbio. 2051 and organic chemistry; or consent of instructor. Concepts of bacterial nutrition, metabolism, adaptation, and genetics, as related to growth and environment.

4111 Microbial Physiology Laboratory (2) 6 hrs. lab. Laboratory techniques used to study growth, metabolism, and cellular control of microorganisms.
4115 Advanced General Microbiology (4) Prereq: Mbio. 2051 and organic chemistry. 2 hrs. lecture; 4 hrs. lab. Bacteriological techniques; practices used in determinative bacteriology.

4121 Immunology and Serology (4) Prereq: Mbio. 2051. 2 hrs. lecture; 4 hrs. lab. Siebeling

4122 Pathogenic Microbiology (4) Prereq: Mbio. 4121 or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Siebeling

4146 Genetics of Bacteria and Bacteriophage (3) Prereq: Mbio. 4110 or consent of instructor. Mutation in bacteria, conjugation, transformation, and transduction; physiology of bacteriophage, bacteriophage as genetic material, chemical basis of heredity, and molecular aspects of mutation. Braymer, Srinivasan

4156 Soil Microbiology (4) See Agro. 4056.

4161 Microbiology of Water, Sewage, and Industrial Wastes (4) Prereq: Mbio. 4110 and 4115; or consent of instructor. 2 hrs. lecture; 4 hrs. lab.

4162 Microbiology of the Dairy and Food Industries (4) Prereq: Mbio. 2051, and either 4110 or 4115; or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Orlowski

4163 Industrial Microbiology (4) Prereq: Mbio. 4110 or 4115; or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Microbes used in industrial processes such as production of chemicals, antibiotics, and vitamins. Srinivasan

4180 Cell Culture (3) Prereq: Mbio. 2051. 1 hr. lecture; 4 hrs. lab. In vitro growth and development of cells derived from plants and animals. Amborski

4190 Introductory Virology (2) Viruses and their host cells; role and significance of viruses in the environment. Amborski

4919, 4920 Current Microbiological Literature (1,1) Prereq: Mbio. 4110 or 4115.

4933, 4934 Special Problems in Microbiology (2,2) 1 hr. conference; 4 hrs. lab.

7148 Microbial Anatomy and Ultrastructure (2) Prereq: Mbio. 4110 or consent of instructor. Structure of various microbial forms. Socolofsky

7150 Special Topics in Microbiology (2) Prereq: 6 sem. hrs. of microbiology beyond Mbio. 2051. May be taken twice for credit when subject matter changes. Specialized areas of current interest in microbiology.

7161 Higher Bacteria (3) Prereq: Mbio. 4110 or consent of instructor. Microbial systematics and ecology; emphasis on morphology and physiology of the higher bacteria. Larkin

7162 Molecular Biology of Microorganisms (3) Prereq: Mbio. 4146, and either Mbio. 4110 or Bch. 4084; or consent of instructor. Synthesis, activity, and interactions of various molecular components of microbial cells; emphasis on macromolecules and their relationship to cellular function and heredity. Braymer

7163 Laboratory in Molecular Biology of Microorganisms (2) Prereq: credit or registration in Mbio. 7162. 6 hrs. lab. Techniques used to study macromolecules and their relation to cellular function and heredity. Braymer

7171 Laboratory in Higher Bacteria (2) Prereq: credit or registration in Mbio. 7161. 4 hrs. lab. Techniques used to isolate and examine higher bacteria. Larkin

7701 Electron Microscopy (2) Same as Boty. 7701, ME 7701, Geol. 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 Mbio. 7701 or consent of instructor. 9 hrs. lab. Same as Boty. 7702 and Zool. 7702. Preparation of biological specimens for transmission electron microscopy; use of electron microscope. Socolofsky

7703 Scanning Electron Microscopy Laboratory: Biological Materials (2) Prereq: credit or registration in Mbio. 7701 or consent of instructor. 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) Prereq: admission to the Ph.D. program.

8000 Thesis Research (1-9 per sem.)

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) 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) Offered summer only. For high school science teachers.

9000 Dissertation Research (1-9 per sem.)

DEPARTMENT OF MILITARY SCIENCE

ASSISTANT COMMANDANT OF CADETS: Cook, Professor
ASSISTANT PROFESSORS: Bowman, Patterson, Rittenhouse, Stenzel, Taylor, Wood
INSTRUCTORS: Myles, Snider, Wilder

Military Science (MilS)

1011 First-Year Basic Army (1) 1 hr. lecture; 1½ hrs. lab. Orientation, organization of the Army and ROTC, individual weapons; leadership and adventure training. Patterson, Taylor
1012 First-Year Basic Army (1) 1 hr. lecture; 1 1/2 hrs. lab. U.S. Army and national security; leadership and adventure training.  

Patterson, Taylor

2061 Second-Year Basic Army (2) 2 hrs. lecture; 1 1/2 hrs. lab. Map reading, small-unit tactics, and adventure training.  

Bowman, Rittenhouse

2062 Second-Year Basic Army (2) 2 hrs. lecture; 1 1/2 hrs. lab. American military history and adventure training.  

Cook, Wood

3011 First-Year Advanced Army (2) 2 hrs. lecture; 1 1/2 hrs. lab. Leadership, military training, professional officer development.  

Wood

3012 First-Year Advanced Army (2) 2 hrs. lecture; 1 1/2 hrs. lab. Small-unit tactics, branches of the Army, pre-camp orientation; leadership, drill, and command.  

Bowman

3061 Second-Year Advanced Army (2) 2 hrs. lecture; 1 1/2 hrs. lab. Orientation, staff organization and functions, operations, logistics, troop movement, and Army readiness, leadership and command.  

Stenzel

3062 Second-Year Advanced Army (2) 2 hrs. lecture; 1 1/2 hrs. lab. Administrative management, military justice, obligations and responsibilities of an officer; leadership and command.  

Stenzel

MODERN LANGUAGES  
(See Department of Foreign Languages, page 281.)

SCHOOL OF MUSIC

ACTING DEAN: Shambaugh, Professor  
ALUMNI PROFESSOR: Klaus  
PROFESSORS: Abel, Brys, Constantinides, Ditsmeyer, Foss, Guerry, Hallman, Harrison, Knowles, McKenzie, Norem (Assistant Dean), Patterson, Redding  
ASSOCIATE PROFESSORS: Aslanian, Astraquillo, Campbell, Dickey, Edmonds, Klimash, Riley, Sher, Timm, Walter, Vestadt  
ASSISTANT PROFESSORS: Cline, Cutrer, Davidson, Figg, Kungle, Raush (Assistant to the Dean), Rouse, Saxon, Speck, Spillman, Wattam, West, Wilson

Music (Mus.)

Performance Courses

Performance courses consist of private instruction; students are assigned to instructors by the dean of the School of Music. On each registration day, performance instructors hear auditions by new students in order to determine the students’ level of proficiency. New students should schedule an audition before registering; they must do so before registration is ended. Performance courses may be repeated for credit if they represent different instruments within an instrument family.

VOICE

1011, 1012 Freshman Voice (3,3) 60 minutes of instruction per week.

1013, 1014, 1015, 1016 Freshman Voice (1.5 each) 30 minutes of instruction per week.

2011, 2012 Sophomore Voice (3,3) 60 minutes of instruction per week.

2013, 2014, 2015, 2016 (1.5 each) 30 minutes of instruction per week.

3011, 3012 Junior Voice (3,3) 60 minutes of instruction per week.

3013, 3014, 3015, 3016 Junior Voice (1.5 each) 30 minutes of instruction per week.

4011, 4012 Senior Voice (3,3) 60 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4013, 4014, 4015, 4016 Senior Voice (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4091, 4092 Senior Voice (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4093, 4094 Senior Voice (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4095, 4096 Senior Voice (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4097, 4098 Senior Voice (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4099, 4100 Senior Voice (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

PIANO/HARPSCICHORD

See the statement concerning “Piano Proficiency” on page 213.

1111, 1112 Freshman Piano/Harpischord (3,3) Pre-req. (for 1111): study of music on the level of Bach's two- and three-part inventions; easier sonatas by Haydn, Mozart, and Beethoven; and Chopin waltzes. 60 minutes of instruction per week.

1113, 1114, 1115, 1116 Freshman Piano/Harpischord (1.5 each) 30 minutes of instruction per week.
faculty, Does approved 4123, graduate 60 minutes of instruction per week.

311, 3112 Junior Piano/Harpsichord (3,3) 60 minutes of instruction per week.

3113, 3114, 3115, 3116 Junior Piano/Harpsichord (1.5 each) 30 minutes of instruction per week.

4112 Senior Piano/Harpsichord (3,3) 60 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4113, 4114, 4115, 4116 Senior Piano/Harpsichord (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

711, 7112 Graduate Piano/Harpsichord (5,5) 60 minutes of instruction per week.

7113, 7114, 7115, 7116 Graduate Piano/Harpsichord (2.5 each) 30 minutes of instruction per week.

FUNCTIONAL PIANO (NONMAJOR)

1121, 1122 Freshman Functional Piano (Nonmajor) (3,3) 60 minutes of instruction per week.

1123, 1124, 1125, 1126 Freshman Functional Piano (Nonmajor) (1.5 each) 30 minutes of instruction per week.

2121, 2122 Sophomore Functional Piano (Nonmajor) (3,3) 60 minutes of instruction per week.

2123, 2124, 2125, 2126 Sophomore Functional Piano (Nonmajor) (1.5 each) 30 minutes of instruction per week.

3121, 3122 Junior Functional Piano (Nonmajor) (3,3) 60 minutes of instruction per week.

3123, 3124, 3125, 3126 Junior Functional Piano (Nonmajor) (1.5 each) 30 minutes of instruction per week.

4121, 4122 Senior Functional Piano (Nonmajor) (3,3) 60 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4123, 4124, 4125, 4126 Senior Functional Piano (Nonmajor) (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

ORGAN

1211, 1212 Freshman Organ (3,3) 60 minutes of instruction per week.

1213, 1214, 1215, 1216 Freshman Organ (1.5 each) 30 minutes of instruction per week.

2211, 2212 Sophomore Organ (3,3) 60 minutes of instruction per week.

2213, 2214, 2215, 2216 Sophomore Organ (1.5 each) 30 minutes of instruction per week.

3211, 3212 Junior Organ (3,3) 60 minutes of instruction per week.

3213, 3214, 3215, 3216 Junior Organ (1.5 each) 30 minutes of instruction per week.

4211, 4212 Senior Organ (3,3) 60 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4213, 4214, 4215, 4216 Senior Organ (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

7211, 7212 Graduate Organ (5,5) 60 minutes of instruction per week.

7213, 7214, 7215, 7216 Graduate Organ (2.5 each) 30 minutes of instruction per week.

STRINGS

In registering, students will indicate the particular instrument by placing its name in parentheses after the course number.

1311, 1312 Freshman Strings (3,3) 60 minutes of instruction per week.

1313, 1314, 1315, 1316 Freshman Strings (1.5 each) 30 minutes of instruction per week.

2311, 2312 Sophomore Strings (3,3) 60 minutes of instruction per week.

2313, 2314, 2315, 2316 Sophomore Strings (1.5 each) 30 minutes of instruction per week.

3311, 3312 Junior Strings (3,3) 60 minutes of instruction per week. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

3313, 3314, 3315, 3316 Junior Strings (1.5 each) 30 minutes of instruction per week.

4311, 4312 Senior Strings (3,3) 60 minutes of instruction per week. Acceptable for minor credit at the graduate level
if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4313, 4314, 4315, 4316 Senior Strings (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

7311, 7312 Graduate Strings (5,5) 60 minutes of instruction per week.

7313, 7314, 7315, 7316 Graduate Strings (2.5 each) 30 minutes of instruction per week.

WOODWINDS

In registering, students will indicate the particular instrument by placing its name in parentheses after the course number.

1411, 1412 Freshman Woodwinds (3,3) 60 minutes of instruction per week.

1413, 1414, 1415, 1416 Freshman Woodwinds (1.5 each) 30 minutes of instruction per week.

2411, 2412 Sophomore Woodwinds (3,3) 60 minutes of instruction per week.

2413, 2414, 2415, 2416 Sophomore Woodwinds (1.5 each) 30 minutes of instruction per week.

3411, 3412 Junior Woodwinds (3,3) 60 minutes of instruction per week.

3413, 3414, 3415, 3416 Junior Woodwinds (1.5 each) 30 minutes of instruction per week.

4411, 4412 Senior Woodwinds (3,3) 60 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4413, 4414, 4415, 4416 Senior Woodwinds (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

7411, 7412 Graduate Woodwinds (5,5) 60 minutes of instruction per week.

7413, 7414, 7415, 7416 Graduate Woodwinds (2.5 each) 30 minutes of instruction per week.

BRASS

In registering, students will indicate the particular instrument by placing its name in parentheses after the course number.

1511, 1512 Freshman Brass (3,3) 60 minutes of instruction per week.

1513, 1514, 1515, 1516 Freshman Brass (1.5 each) 30 minutes of instruction per week.

2511, 2512 Sophomore Brass (3,3) 60 minutes of instruction per week.

2513, 2514, 2515, 2516 Sophomore Brass (1.5 each) 30 minutes of instruction per week.

3511, 3512 Junior Brass (3,3) 60 minutes of instruction per week.

3513, 3514, 3515, 3516 Junior Brass (1.5 each) 30 minutes of instruction per week.

4511, 4512 Senior Brass (3,3) 60 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4513, 4514, 4515, 4516 Senior Brass (1.5 each) 30 minutes of instruction per week. Acceptable for minor credit at the graduate level if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

7511, 7512 Graduate Brass (5,5) 60 minutes of instruction per week.

7513, 7514, 7515, 7516 Graduate Brass (2.5 each) 30 minutes of instruction per week.

PERCUSSION

1611, 1612 Freshman Percussion (3,3) 60 minutes of instruction per week.

1613, 1614, 1615, 1616 Freshman Percussion (1.5 each) 30 minutes of instruction per week.

2611, 2612 Sophomore Percussion (3,3) 60 minutes of instruction per week.

2613, 2614, 2615, 2616 Sophomore Percussion (1.5 each) 30 minutes of instruction per week.

3611, 3612 Junior Percussion (3,3) 60 minutes of instruction per week.

3613, 3614, 3615, 3616 Junior Percussion (1.5 each) 30 minutes of instruction per week.

4611, 4612 Senior Percussion (3,3) 60 minutes of instruction per week. Acceptable for graduate credit if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.

4613, 4614, 4615, 4616 Senior Percussion (1.5 each) 30 minutes of instruction per week. Acceptable for graduate credit if approved by the performance faculty, the dean of the School of Music, and the dean of the Graduate School. Does not carry credit toward a graduate degree which is a sequel to an LSU undergraduate program requiring the course.
7611, 7612 Graduate Percussion (5,5) 60 minutes of instruction per week.

**General Courses**

1001-1002 Voice Class (2,2) Open to students not majoring in music with consent of instructor. May not be taken for major credit in a vocal curriculum. Group instruction in voice production.

1017 Chamber Music (1) May be repeated for credit every semester. Vocal.

1018-1019 Diction for Singers (2,2) Required in the Bachelor of Music curriculum in voice even though the respective languages are studied. Phonetics and phonemes used in singing in different languages; 1018 includes the phonetic alphabet, English and German diction; 1019 includes Italian and French diction.

1101-1102 Piano Class (1,1) 2 hrs. lab. Required of instrumental students. Open only to students majoring in music. Beginning group instruction in piano.

1103-1104 Piano Class (1,1) 2 hrs. lab. Required of instrumental students. Open only to students majoring in music. Second-year group instruction in piano.

1105, 1106, 1107 Secondary Piano (3,3,3) 2 half-hour lessons. May not be taken for credit by students majoring in piano or vocal teaching. 1107 may be taken twice for credit. Instruction in piano for students majoring in music but not in piano.

1117 Chamber Music (1) May be repeated for credit every semester. Stage band.

1217 Chamber Music (1) May be repeated for credit every semester. Collegium musicum.

1301-1302 Violin and Viola Class (1,1) 2 hrs. combined lecture/lab. Required of students preparing to be instrumental supervisors except as noted in the instrumental curricula. Beginning group instruction in violin and viola.

1303-1304 Cello and String Bass Class (1,1) 2 hrs. combined lecture/lab. Required of students preparing to be instrumental supervisors. Beginning group instruction in cello and string bass.

1317 Chamber Music (1) May be repeated for credit every semester. Strings.

1401 Flute Class (1) 2 hrs. lab. Required of students preparing to be instrumental teachers. Beginning instruction in flute.

1402 Oboe Class (1) 2 hrs. lab. Required of students preparing to be instrumental teachers. Beginning instruction in oboe.

1403 Clarinet and Saxophone Class (1) 2 hrs. lab. Required of students preparing to be instrumental teachers. Beginning instruction in these instruments.

1404 Bassoon Class (1) 2 hrs. lab. Required of students preparing to be instrumental teachers. Beginning instruction in bassoon.

1417 Chamber Music (1) May be repeated for credit every semester. Woodwinds.

1501 Cornet, Trumpet, Alto Horn, and Baritone Class (1) 2 hrs. lab. Required of students preparing to be instrumental teachers. Beginning instruction in these instruments.

1502 French Horn Class (1) 2 hrs. lab. Required of students preparing to be instrumental teachers. Beginning instruction in French horn.

1503 Trombone and Tuba Class (1) 2 hrs. lab. Required of students preparing to be instrumental teachers. Beginning instruction in trombone and tuba.

1517 Chamber Music (1) May be repeated for credit every semester. Brass guild.

1601 Percussion Class (1) 2 hrs. lab. Required of students preparing to be instrumental teachers. Group instruction on percussion instruments.

1617 Chamber Music (1) May be repeated for credit every semester. Percussion ensemble.

1700 Recital Hour (1) Required of all students carrying 10 sem. hrs. or more who are working toward the Bachelor of Music or Bachelor of Music Education degree, including Junior Division students who intend to major in music. May be repeated for credit. Pass-fail grading. Weekly student recital and music seminar.

1701 First-Year Theory (4) 5-6 hrs. lecture and lab. For music majors. Lab assignments depend on student’s needs. Elements of form, melody, rhythm, harmony, and aural skills.

1702 First-Year Theory (4) Prereq: successful completion of Mus. 1701 or consent of faculty concerned. 5-6 hrs. lecture and lab. For music majors. Lab assignments depend on the student’s needs. Elements of form, melody, rhythm, harmony, and aural skills.

1751 Music Appreciation (3) Primarily for students not majoring in music. The art of music, with emphasis on listening skills; a nontechnical approach to understanding vocabulary and materials of music; correlation of musical literature to other disciplines in the humanities.

1752 Music Appreciation (3) Primarily for students not majoring in music. The varied facets of the musical arts: folk music, symphony, opera, ballet, vocal, and chamber music.

1753, 1754 Music History and Appreciation (2,2) For students majoring in music: open to others by consent of instructor. May not be used as a substitute for Mus. 4751, 4752. Western art music from medieval Gregorian chant to 20th-century serialization.

1780 Men’s Chorus or Women’s Chorus (1 per sem. or noncredit) May be repeated for credit.

1781 Orchestra (1 per sem. or noncredit) May be repeated for credit.
Band (1 per sem. or noncredit) May be repeated for credit.  
Klimash

A Cappella Choir (1 per sem. or noncredit) May be repeated for credit.  
Rouse

University Chorus (1 per sem. or noncredit) May be repeated for credit.  
Figg

Opera Chorus (1) May be repeated for credit. Cline

Wind Ensemble (1 per sem. or noncredit) May be repeated for credit. May not be counted as major organization credit in B.Mus. and B.Mus.Ed. curricula. Fall semester only.  
Rouse

Music Education in the Elementary School—I (3) Music fundamentals, materials, methods, and skills involved in teaching general music in the elementary school.  
Shambaugh

Music Education in the Elementary School—II (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.  
Shambaugh

Theory (2) Prereq: Mus. 1702. Harmony, melody, rhythm, form; keyboard harmony. Edmunds, Wilson

Theory Laboratory (2) Prereq: Mus. 1702 or consent of instructor. Visual-aural skills and development of aural imagery. Edmunds, Wilson

Theory (2) Prereq: Mus. 1702. A continuation of Mus. 2701. Edmunds, Wilson

Theory Laboratory (2) Prereq: Mus. 2702 or consent of instructor. Continued development of visual-aural imagery and associated skills. Edmunds, Wilson

Elementary Composition (3) Prereq: Mus. 1701 and 1702; or consent of instructor. 3 hrs. lecture; 1 hr. lab. Basic serial technique; analysis and audition of selected scores. Klaus

Intermediate Composition (3) Prereq: Mus. 2741 or consent of instructor. 3 hrs. lecture; 1 hr. lab. Continuation of 2741; basic part-writing in 20th-century idioms; analysis and audition of selected scores. Klaus

Advanced Voice Class (3) Prereq: Mus. 3011 or consent of instructor. Processes and principles of voice production; scientific approach to acoustical, physiological, and psychological problems of singing and vocal pedagogy; attention to the youthful voice. Foss

Theory Survey (2) Admission by placement examination. 4 hrs. lab. Written and aural aspects of theory. Kungle

Form and Analysis (2,2) Prereq: Mus. 2701 and 2703. Mus. 3711 is a prerequisite for 3712. Evolution of forms and textures of representative works from various periods of music history. Riley

20th-Century Compositional Techniques before World War II (2) Prereq: Mus. 2742 or consent of instructor. 2 hrs. lecture; 1 hr. lab. Composing in various forms and for various media. Constantinides

Compositional Techniques since World War II (2) Prereq: Mus. 3741 or consent of instructor. 2 hrs. lecture; 1 hr. lab. Composing in various forms for various media. Wilson

Choral Literature (2) Choral literature; selection of materials for a one-year program for choral groups. Figg

Song Literature (3,3) 3 hrs. combined lecture/lab. Survey course in song literature. Waiter

Organ Literature, History, and Design (3,3) Mus. 3757 is a 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. Spillman

Conducting (2,2) Elements of conducting and baton technique. Yestadt

Chamber Music (1) May be repeated for credit every semester. Vocal. Aslanian

Principles in Ensemble Performance (2) Open to voice, keyboard, and other instrumental majors. Development of aural concepts through score analysis; application to ensemble performance for various media. McKenzie

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. Aslanian

Chamber Music (1) May be repeated for credit every semester. Stage band. Rouse

Chamber Music (1) May be repeated for credit every semester. Collegium musicum. McKenzie

Chamber Music (1) May be repeated for credit every semester. Strings. Brys

Chamber Music (1) May be repeated for credit every semester. Woodwinds. Timm

Chamber Music (1) May be repeated for credit every semester. Brass guild. Foss

Chamber Music (1) May be repeated for credit every semester. Percussion ensemble. Raish

Organ Practicum (2,2) Prereq: consent of instructor. Techniques of service playing; techniques and materials of organ pedagogy. Spillman

The Scientific Bases of Music (2) Required of students majoring in voice; open to others as elective. Musical acoustics; anatomy and physiology of the vocal and hearing organs. Patterson

Advanced Harmony (3) Prereq: Mus. 2701 and 2703. Musical style of the 19th century; chromatic har-
4720 20th-Century Harmony (3) Prereq: Mus. 2701 and 2703. Impressionist harmony, tertian sonorities with added tones, quartal harmony, and other techniques of the pre-scholastic school. Riley

4721-4722 Modal Counterpoint (3,3) Offered in alternate years. 16th-century counterpoint. Abel

4723*-4724* 18th- and 19th-Century Counterpoint (3,3) Prereq: Mus. 2701 and 2703. Writing of the contrapuntal forms, including choral prelude, invention, suite, partita, and fugue. Abel

4730 Elementary Orchestration (2) Tonal characteristics, ranges, and scoring for the standard symphonic instrumentation. Abel

4731 Intermediate Orchestration (2) Orchestration for full orchestra including extraordinary instruments; analysis of orchestration, special problems in orchestration. Abel

4732 Band Arranging (2) Prereq: Mus. 4731 or equivalent. Band instrumentation, including both transcription from other media and original composition. Edmunds

4743* Electronic Music Composition (2) Prereq: composition in other media and consent of instructor. 2 hrs. per semester. Laboratory credit. Use of equipment in the electronic studio; compositional techniques used in construction of electronically assembled works. Wilson

4744* Advanced Composition (2) Prereq: Mus. 3742 or consent of instructor. 2 hrs. per semester. Laboratory credit. Students will be required to present performances of their music and a major work for the senior project. Writing for various media including symphony music.

4751* Survey in Music History— I (2) Required for students majoring in music; open to others with consent of instructor. Music of the Western world from ancient Greece to ca. 1700. McKenzie

4752* Survey in Music History— II (2) Required for students majoring in music; open to others with consent of instructor. Continuation of Mus. 4751; the late Baroque, classic, romantic, and modern eras, up to the present. McKenzie

4753 Folk and Traditional Music— Music History and Literature (2) Background and history of folk and traditional music; emphasis on Anglo-American folk-songs. Foss

4754 Folk and Traditional Music— Music History and Literature (2) Prereq: Mus. 4753 or consent of instructor. Extension of study of unwritten music of folk cultures; emphasis on African-American styles. Foss

4755, 4756 Hymnology and Church Music (3,3) Survey of church music; emphasis on 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. Davidson

4757, 4758 Piano Literature (3,3) Offered in alternate years. Literature for the clavier from the period preceding Bach, including standard and lesser-known works since the advent of the piano; development of instruments and distinct instrumental styles; modern trends in piano composition. Hullman

4761, 4762 The Care and Repair of Band and Orchestral Instruments (1,1) Prereq: Mus. 1301 and 1401 through 1601 or equivalent. 2 hrs. lab. For students with experience in instrumental music and a practical knowledge of the problems of instrumental upkeep. Wattam

4763-4764 Piano Methods and Materials (3,3) Prereq: Mus. 2111, 2112, 2701, 2702, or equivalent. Offered in alternate years. Materials and techniques for the piano teacher. Sher

4766 The Marching Band (2) Techniques employed in training a marching band, including scoring the music. Rouse

4767 Piano Design, Construction, and the Theory of Tuning and Temperament (2) 1 hr. lecture; 2 hrs. lab. Open only to students majoring in music. Piano and harpsichord design, construction, regulation, voicing, and tunings; knowledge important to pianists; laboratory experience in regulation, tuning, and voicing. Daigle**

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.

4780*** Men’s Chorus or Women’s Chorus (1 per sem. or noncredit) May be repeated for credit. Figg

4781*** Orchestra (1 per sem. or noncredit) May be repeated for credit. Yestadt

4782*** Band (1 per sem. or noncredit) May be repeated for credit. Rouse

4783*** A Cappella Choir (1 per sem. or noncredit) May be repeated for credit. Klimash

4784*** University Chorus (1 per sem. or noncredit) May be repeated for credit. Figg

4786 Wind Ensemble (1 per sem. or noncredit) May be repeated for credit. May not be counted as major organization credit in B.Mus. and B.Mus.Ed. curriculum. Fall semester only. Rouse

4788 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.  

4789, 4790 Musical Theatre Production (2,2) Each course may be repeated for credit. Open to any advanced musician interested in producing musical theatre. Various aspects of the lyric theatre, including 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 nonmajors. History, production, and performance of opera from 1600 to the present.  

4795-4796 History of Musical Style (3,3) Prereq: Mus. 1753, 1754, or Mus. 4751, 4752, or consent of instructor. Range of music history in the western world as seen in perspective of changing musical style; emphasis on specific characteristics of the various styles as determined from major compositions and treatises of each period.  

4797 Senior Recital (1-3) May be repeated for a maximum of 3 sem. hrs. credit.  

4798 Senior Recital (1-6) May be repeated for a maximum of 6 sem. hrs. credit.  

4799 Coaching in Applied Music (2) Prereq: Mus. 4798 and recommendation of the applied-music faculty concerned. May be repeated for credit.  

7170, 7171 Vocal Pedagogy (2,2) See EDCI 7170, 7171.  

7172 Stringed-Instrument Pedagogy (2) See EDCI 7172.  

7173 Woodwind-Instrument Pedagogy (2) See EDCI 7173.  

7174 Brass-Instrument Pedagogy (2) See EDCI 7174.  

7175 Percussion-Instrument Pedagogy (2) See EDCI 7175.  

7701-7702 Comparative Theories of Musical Practice (2,2) Important treatises dealing with theory; procedures for teaching theory.  

7703-7704 20th-Century Musical Practices (3,3)  

7711 Orchestral Analysis (3) Evolution of orchestral music as it is apparent in the instrumental grouping, orchestration, and forms of music of all periods.  

7731 Advanced Orchestration (3) Prereq: Mus. 4730 and 4731; or consent of instructor.  

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 concertos.  

7751 Ancient and Medieval Music (3) Offered in alternate years. History of music from ancient Greeks and Hebrews through the 14th century.  

7752 Music of the Renaissance (3) Offered in alternate years. Music of the 15th and 16th centuries.  

7753 Music in the Baroque Era (3) Offered in alternate years.  

7754 Music in the Classical Era (3) Offered in alternate years.  

7755 Music in the Romantic Era (3) Offered in alternate years.  

7756 Music in the Modern Era (3) Offered in alternate years.  

7757 American Music (3) Offered in alternate years. The most important phases in development of music in the U.S.  

7761 Techniques in Organization, Administration, and Preparation of School Bands, Orchestras, and Choruses (3)  

7762 Measurement and Evaluation in Music (3) Teacher-designed and standardized tests in music; study of learning theories.  

7763, 7764 Comparative Methods in Music Education (3,3) Techniques in teaching music; opportunity for functional projects; important 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.  

7771, 7772 Advanced Choral Conducting (2,2) Prereq: previous study of conducting.  

7773, 7774 Advanced Band Conducting (2,2) Prereq: previous study of conducting.  

7775, 7776 Advanced Orchestral Conducting (2,2)  

7798 Graduate Recital (5 for instruments; 3 for voice) Prereq: Mus. 4798 or equivalent.  

7799 Advanced Coaching in Applied Music (2) Prereq: Mus. 7798 or equivalent. May be taken twice for credit.  

7800 Introduction to Research in Music (3) Required of all students working toward a doctorate in music; recommended for master’s students who will write theses. Team-taught course. Research, bibliography, and source materials for each of the various areas of music.  

7891 Seminar in Musical Composition (1-3) May be repeated for credit. A total of 6 sem. hrs. of credit in Mus. 7901 and/or 7902 is applicable to the M.M. degree with concentration in composition. Participation in the New Music Workshop is part of coursework.  

7892 Seminar in Electronic Musical Composition (1-3) Prereq: Mus. 4743 or consent of instructor. May be repeated for credit. A total of 6 sem. hrs. of credit in Mus. 7901 and/or 7902 is applicable to the M.M. degree with concentration in composition. Participation in the New Music Workshop is part of coursework.
7903, 7904 Seminar in Music History (2-3,2-3) Each course may be taken 3 times for credit. Only 6 sem. hrs. are applicable to the M.A. degree; only 12 additional sem. hrs. are applicable to the Ph.D.; maximum for M.A. and Ph.D. combined is 18 sem. hrs. McKenzie

7905, 7906 Seminar in Music Education (2-6,2-6) Each course may be taken three times for credit. Only 6 sem. hrs. are applicable to the M.M.Ed. degree and only 12 additional sem. hrs. are applicable to the Ph.D.; maximum for M.M.Ed. and Ph.D. combined is 18 sem. hrs. Shambaugh

7921 Seminar in Music Theory (3) Primarily for master's candidates. May be taken twice for degree credit. In-depth exploration of subjects specifically relating to music theory. Abel

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 (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

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.

9004 Second Doctoral Lecture Recital (1-3) Pass-fail grading.

9005 Concerto with Orchestra (1) Pass-fail grading.

9006 Major Solo Part in an Oratorio or a Cantata (1) Pass-fail grading.

9007 Doctor of Musical Arts Major Role in Opera (2) May not be taken concurrently with Mus. 4788. Pass-fail grading.

9008 Doctor of Musical Arts Chamber Music Recital (2) Pass-fail grading.

9009 Research and Monograph (1-3) Pass-fail grading.

9021 Seminar in Music Theory (3) For doctoral candidates only. May be taken twice for degree credit. In-depth exploration of subjects specifically relating to music theory.

9758, 9759 Repertoire (3,3) Prereq: completion of applied music in the 7011 to 7016 series in the appropriate field or equivalent, and consent of departmental faculty concerned. Each course may be taken 3 times; however, amount of credit applicable to a degree is determined by student’s advisory committee.

9901, 9902 Doctoral Seminar in Musical Composition (1-3,1-3) May be repeated for credit but maximum amount of credit applicable to the degree is 12. Participation in the New Music Workshop is part of coursework.

9909 Seminar in Scoring for Various Media (2) Prereq: Mus. 3711, 4719, 4730, and 4731, or consent of instructor. May be repeated for credit with consent of adviser. 

9925 to 9937 (Series) Seminar in Literature and Style in Performance (3 each) Historical developments of the various performance areas with concentration on their literature, important pedagogical principles, and stylistic problems related to each medium. To be given as follows: 

9925, 9926 Voice.

9927, 9928 Piano.

9929, 9930 Organ.

9931, 9932 Strings.

9933, 9934 Woodwinds.

9935, 9936 Brass.

9937 Percussion.

9971 Seminar in Performance Practices (3) Required of all D.M.A. students concentrating in performance; open to others by consent of dean.

NUCLEAR SCIENCE CENTER

DIRECTOR: Lambremont, Professor

PROFESSOR: Iddings

ASSOCIATE PROFESSORS: Courtney, McIlhenny

ASSISTANT PROFESSORS: Knaus, Miles

Students and staff utilizing facilities of the Nuclear Science Center must, as their initial training, Nuclear Science 3411 or 4101, or must have equivalent prior training or experience.

Nuclear Science (NS)

2051 Contemporary Radiological Science (3) Prereq: one semester of chemistry or physics; or consent of department. Radioactivity in nature; synthetic radionuclides and radiation sources; radiological applications in industry, chemistry, biomedical sciences, engineering, and energy production; radiological safety. Knaus

3411 Nuclear Applications in the Physical Sciences and Engineering (3) Prereq: one semester of chemistry or physics; or consent of department. 2 hrs. lecture; 3 hrs. lab. Nuclear structure, transmutation, decay, and their applications in industry and research. Iddings

4101 Tracer Methodology for Biological Sciences (3) 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. Lambremont
4141 Radioecology (3) 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. 

3331 Radiation Hazards and Control (4) Prereq: NS 3411 or 4101 or consent of instructor. 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) Prereq: NS 3411 or 4101 or consent of department. 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.

4412 Advanced Tracer Methodology for Physical Sciences (3) Prereq: NS 3411 or equivalent. 2 hrs. lecture/demonstration; 3 hrs. lab. Production and use of radio nuclides; application of nonradioactive nuclides as tracers. 

4481 Industrial Applications of Radioisotopes (3) Prereq: NS 2051 or 3411 or consent of instructor. 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. 

4494 Nondestructive Testing (3) See ME 4013.

4527 Nuclear Reactor Theory and Design (3) Prereq: two semesters of physics or consent of department. Theories of various nuclear reactors and design of operating nuclear reactors. 

4566 Nuclear Reactor Systems (3) Prereq: NS 4527 or equivalent. Engineering aspects of reactor systems; fuel cycle, economics, mechanical and thermal design, selection of materials, and environmental impact of nuclear power plants. 

4570 Nuclear Reactor Safety (3) Prereq: NS 4527 or equivalent. Safety aspects of nuclear reactors; possible accidents, dispersal of radioactivity, and engineered safeguards.

4991, 4992 Special Problems in Nuclear Science (1-4, 1-4) Prereq: a 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) Prereq: NS 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Qualitative and quantitative aspects of tracer applications in modern biological research; combining tracer technique with other analytical methods.

7121 Radiobiology (3) Prereq: NS 4101 or equivalent, and consent of instructor. 2 hrs. lecture; 3 hrs. lab. Effects of ionizing radiation on biological systems, including machine-made radiation sources such as x-ray and ultraviolet light and their resulting interactions on molecular, cellular, and organ-system levels of biological organization.

7331 Radiation Dosimetry (3) Prereq: NS 4331 or consent of instructor. 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) Principles governing structure and properties of materials used in nuclear reactors; radiation effects, problems in selection, fabrication, and use of these materials.

7525 Reactor Laboratory (Sub-Critical) (2) Prereq: credit or registration in NS 7527. 6 hrs. lab. Courtney 

7527-7528 Reactor Engineering (3,3) Prereq: consent of department. NS 7527 is a prerequisite for NS 7528. Homogenous and heterogeneous reactors, diffusion, and transport theories for neutron flux calculations; criticality calculations; two-group and multigroup methods; transient behavior and reactor control; temperature and void effects; perturbation theory.

7530 Nuclear Shielding Analysis and Design (2) Radiation attenuation principles and physical theory in design of nuclear radiation shields, calculations of source terms, attenuation factors, heating rates, geometric transformations, and radioactive decay effects in relation to shielding.

7555 Nuclear Reactor Analysis (3) Prereq: Math 4036, 4060, and NS 4527; or consent of instructor. Numerical methods and solutions to multi-group diffusion and transport equations; Monte Carlo techniques and their application in nuclear engineering; fission reactor kinetics, feedback analysis, neutron system analysis; advanced energy systems.

7652 Radiation Effects on Nonmetals (4) Prereq: NS 3411 or 4101; and Chem. 2261, 2262, and 4491-4492. 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) Prereq: NS 3411 or 4101 or equivalent. 1 hr. lecture/demonstration; 3 hrs. lab. Nuclear transmutations, radiation detection-measurement, data reduction, and laboratory techniques.

7995 Seminar (1) Required every semester for degree candidates in nuclear engineering. Only 1 sem. hr. of credit may be counted toward degree.

8000 Thesis Research (1-9 per sem.)
DEPARTMENT OF OFFICE ADMINISTRATION

CHAIRMAN: Golen, Assistant Professor
INSTRUCTORS: Jones, Sheffield, Tittemeyer, White

Office Administration (OAdm)

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 with unpracticed material; shorthand principles.


DEPARTMENT OF PETROLEUM ENGINEERING

CHAIRMAN: Bourgoine, Professor
CAMPANILLE CHARITIES PROFESSOR OF PETROLEUM ENGINEERING: Hise
HALLIBURTON PROFESSOR OF PETROLEUM ENGINEERING: Hise
PROFESSOR: Holdren
ASSOCIATE PROFESSORS: Bernard, Whitehead
ASSISTANT PROFESSORS: Bassioni, Veaze

Petroleum Engineering (PetE)

2020 Introduction to Petroleum Engineering (3) Scientific bases of petroleum geology and chemistry, exploration, drilling, production, reservoir engineering, and refining.

3031 Petrophysics (3) Prereq: Math 1052, PetE 2020, and Phys. 2101. Steady-state flow and fluid distribution in reservoir rock as influenced by porosity, permeability, fluid saturations, and wettability; electrical, elastic, and nuclear properties.


3033 Petrophysics Laboratory (1) Prereq: credit or registration in PetE 3031. 3 hrs. lab. Accompanies PetE 3031.

3034 Phase Behavior Laboratory (1) Prereq: credit or registration in PetE 3032. 3 hrs. lab. Accompanies PetE 3032.

3035 Economic Aspects of Petroleum Production (3) Prereq: Math 1050. Introduction to mineral ownership and leasing in Louisiana; profitability analysis; risk analysis; evaluation of petroleum properties.

3100 Advanced Shorthand (3) 2 hrs. lecture; 3 hrs. lab. Continuation of OAdm 2101; emphasis on development of speed in dictation and transcription.

3101 Shorthand Transcription (3) 2 hrs. lecture; 3 hrs. lab. Continuation of OAdm 3100; emphasis on development of speed in dictation and transcription.

3400 Office Management (3) Office management and procedures.

3500 Administrative Secretarial Training (3) Prereq: OAdm 3000 and Mgt. 2071; senior standing required for students in the College of Business Administration. 2 hrs. lecture; 3 hrs. lab. Responsibilities and duties of professional secretary; problem-solving situations used to further develop shorthand, typing, machine operation, and filing skills.

3036 Introductory Well Logging (4) Prereq: EE 2920, PetE 3031, 3033, and Phys. 2102. Qualitative and quantitative formation evaluation by means of electric, acoustic, and radioactive well logs.

3990 Independent Research (1-2) May be repeated for credit for a maximum of 3 sem. hrs. Written report required. Credit 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 2200, 3400, and PetE 3032, 3034 (Che 3173 may replace PetE 3032, 3034). Rotary drilling equipment; composition and properties of drilling fluids and cement; annular and pipe flow of Newtonian and non-Newtonian fluids; optimization of jet bit hydraulics; blowout prevention.

4046 Well Design—Production (3) Prereq: PetE 4045. Analysis and design of well production systems; rod pumping, gas lift, hydraulic fracturing, surface separation, and treating equipment.

4051 Reservoir Engineering (3) Prereq: PetE 3031, 3032, 3033, and 3034 (Che 3173 may replace PetE 3032 and 3034). 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.

4053 Petroleum Engineering Aspects of Subsurface Geology (3) Prereq: PetE 3036, 4051, and Geol. 3031. Also offered as Geol. 4166. Engineering aspects of petroleum geology; interpretation of subsurface data; reservoir mapping; determination of reservoir volume.

4056 Numerical Methods in Petroleum Engineering (3) Prereq: Math 2057 and Engr. 2060. Advanced concepts in FORTRAN programming; numerical techniques used in the solution of problems in drilling, production, and reservoir engineering; numerical solutions to the partial differential equations used in reservoir performance calculations.

4057 Petroleum Production Laboratory (1) Prereq: PetE 3032 and 3034; or ChE 3173. 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.


4085 Advanced Production Engineering (3) Prereq: PetE 3032 and 3034; or ChE 3173. 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 3036. 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 and productivity.


7201 Advanced Reservoir Engineering (3) Prereq: PetE 4052 and 4056 or equivalents. 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.

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 changes; a total of 12 sem. hrs. of credit may be earned in these two courses. Topics include—but are not limited to—offshore operations, formation evaluation, field processing of natural gas, automation in petroleum exploitation, advanced petroleum exploitation, advanced petroleum economics, and reservoir heterogeneity.

7256 Special Problems in Petroleum Engineering (1-6) May be repeated for credit for a maximum of 6 sem. hrs. Comprehensive report required. 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 (1-9 per sem.)

DEPARTMENT OF PHILOSOPHY

CHAIRMAN: Henderson, Associate Professor
PROFESSOR: Bigger
ASSOCIATE PROFESSORS: Baker, Shirley, Sirridge, Smith
ASSISTANT PROFESSORS: Mazis, Sarkar, Schufreider

Philosophy offers the fundamental core of a liberal education. It deals with the basic structures, commitments, and principles underlying every area of experience and activity. The field, therefore, provides an excellent foundation for graduate study in law, literature, history, theology, or mathematics, as well as for professional work in philosophy itself.

Students concentrating in philosophy are required to take Philosophy 2010 or 4010 and 2020, 2033, 2035, and 2042
along with electives to make a total of 33 hours. Degree credit will not be allowed for more than six hours in courses numbered below 2000.

Honors courses offered in philosophy are Philosophy 2034, 2036, 2952, 2953, 2963, 2964, 2965, and 3901. A special curriculum leading to the B.A. degree with honors in philosophy is offered. Details are available from the departmental office.

Philosophy (Phil.)

1011 Introduction to Philosophy: Man and Society (3) Major ideologies and philosophical ideas underlying our modern understanding of the self, our civilization, and its values.

1021 Introduction to Philosophy: Elementary Logic (3) No special background presupposed. Formal and informal reasoning; includes 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.

1101 The Long Search: A Study of Religions (2) 13 televised lectures with organized readings and tests. Offered via PBS broadcasts. Origins, beliefs, and contemporary practices of Hinduism, Islam, Taoism, Zen Buddhism, Judaism, Christianity, and Confucianism; interaction between specific religions and the cultures in which they are practiced.

2010 Introduction to Logical Theory (3) Primarily for students intending to take additional work in philosophy or logic. Symbolic logic, with emphasis on formal methods of proof, including syllogistics, truth functions, propositional calculus, and elementary predicate calculus; philosophical assumptions underlying logic and relevance of formal logic to philosophical questions.

2018 Professional Ethics (3) Special problems of obligation and valuation related to the practice of law, medicine, politics, and education, and also business, engineering, architecture, etc.; topics include 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 the works of Aristotle, Kant, Mill, Nietzsche, and others; topics include freedom, rights, dignity, and resources for moral judgment.

2023 Philosophy of Art (3) Prereq: one course in philosophy or consent of instructor. Major aesthetic theories.

2024 Philosophy in Literature (3) Prereq: one course in philosophy or consent of instructor. 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.

2027 Eastern Religions (3) Prereq: one course in philosophy or consent of instructor. Doctrines, practices, and philosophical import of the major religions of Southern and Eastern Asia.

2028 Philosophy of Religion (3) Prereq: one course in philosophy or consent of instructor. 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 evil.

2029 Western Religions (3) Prereq: one course in philosophy or consent of instructor. Doctrines and practices of the three major religions—Judaism, Christianity, and Islam; analysis of the teachings of the Old and New Testament.

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.

2952, 2953 HONORS: Philosophical Colloquium (3,3) 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 grade-point average of at least 3.0 in all work taken. Reading, conferences, and reports under the direction of the philosophy faculty.

3901 HONORS: Directed Readings in Philosophy (3) Prereq: Phil. 2033 and 2035; or consent of instructor.

3902 HONORS: Examination Tutorial (1) Comprehensive exam in the field of problems 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 consent of instructor. Modern symbolic logic, with emphasis on formal axiomatic method and metatheory of formal calculi.
4011 Advanced Logic (3) Prereq: Phil. 4010 or consent of instructor. Advanced metatheory and the axiomatic foundations and applications of intensional logics.

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 consent of instructor. Topics from early Greek philosophy beginning with Thales and ending with the Sophists, Socrates, and the early "Socratic" dialogues of Plato; emphasis on Anaximander, Heraclitus, Parmenides, and Socrates.

4922 Plato (3) Prereq: Phil. 2033 or consent of instructor.

4924 Aristotle (3) Prereq: Phil. 2033 or consent of instructor. Topics from Aristotle's Metaphysics, Physics, De Anima, and the logical treatises.

4931 Descartes, Spinoza, and Leibniz (3) Prereq: 6 hrs. of philosophy or consent of instructor. 17th-century rationalism, with emphasis on epistemology and metaphysics.

4936 19th-Century Philosophy (3) Prereq: Phil. 2033 and 2035 or consent of instructor. 19th-century philosophy, with emphasis on German thought; readings in Fichte, Hegel, Marx, Nietzsche, Bergson, etc.

4938 Philosophical Thought in America (3) The late 19th and early 20th centuries; topics from such philosophers as Peirce, James, Royce, Dewey, Santayana, Ward, and Mead.

4941 Philosophy of Mind (3) Prereq: Phil. 2033 and 2035 or consent of instructor. 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. Major works in philosophical theology by such authors as Hartshorne, Farrer, Tillich.

4945 Political Philosophy (3) Prereq: Phil. 1011 or 2020; or consent of instructor. Freedom, obligation, authority, justice, law, the state, and revolution.

4948 Phenomenology (3) Prereq: Phil. 2035 or 4936 or consent of instructor. 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 4932. 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.

7910, 7911 Seminar (3,3) Prereq: consent of department.

7921 Seminar in the History of Philosophy (3) Kant; analysis of the Critique of Pure Reason, with attention to the "Transcendental Analytic."

7924 Seminar in the History of Philosophy (3) Whitehead; attention to The Concept of Nature and Process and Reality.

7926 Seminar in the History of Philosophy (3) Aquinas.

7991 Independent Study (3)

8000 Thesis Research (1-9 per sem.)

**PHYSICAL SCIENCE**

(See Department of Physics and Astronomy, below.)

**DEPARTMENT OF PHYSICS AND ASTRONOMY**

**CHAIRMAN:** Henry, Professor  
**BOYD PROFESSORS:** Callaway, Reynolds  
**PROFESSORS:** Bond, Goodrich, Grenier, Hamilton, Huggett, Hussey, Landolt, O’Connell, Perry, Rajagopal, Zganjar  
**ASSOCIATE PROFESSORS:** Chan, Channamgam, Draayer, Drilling, Grenchik, Haymaker, Imlay, Jones, Kimball, Kirk, Lee, Marshall, Piller, Rau, Zebouni, Zimmerman  
**ASSISTANT PROFESSORS:** Endal, Metcalf

**Prerequisites:** All prerequisites in physics courses should be rigidly observed. Courses listed to the left of the hyphens are prerequisite for courses listed to the right.

**Corequisites:** A student may not continue in a course after dropping a corequisite course prior to the last day of the midsemester examination period.
1003-1004 Introductory Physics (3,3) Prereq: Math 1012 or 1023; or Math 1021 with registration in Math 1022. 3 hrs. lecture/demonstration. For students not majoring in engineering; emphasis on technological rather than biological aspects of physics. Credit will not be given for these courses and Phys. 1201-1202, 2001-2002, or 2101-2102. Mechanics, heat, sound, light, electricity, and magnetism, with technological applications and some concepts of modern physics.

1201-1202 General Physics for Physics Majors (3,3) Prereq. (for 1201): credit or registration in Math 1050; (for 1202): credit or registration in Math 1052. 3 hrs. lecture/demonstration. Primarily for students intending to major in physics. Credit will not be given for these courses and Physics 1003-1004, 2001-2002, or 2101-2102. Fundamentals of classical physics; calculus and vector analysis introduced and used in development of subject matter.

1208-1209 General Physics Laboratory for Physics Majors (1,1) Prereq. (for 1208): credit or registration in Phys. 1201; (for 1209): credit or registration in Phys. 1202. 3 hrs. lab. Credit will not be given for these courses and Phys. 2008-2009 or 2108-2109. Labs to accompany Phys. 1201-1202.

2001-2002 General Physics (3,3) Prereq: Math 1012 or 1023. 3 hrs. lecture/demonstration. For premedical students and students in the College of Arts and Sciences. Credit will not be given for these courses and Phys. 1003-1004, 1201-1202, or 2101-2102. Mechanics, heat, sound, light, electricity, and magnetism; topics in modern physics.


2101-2102 General Physics for Technical Students (3,3) Prereq. (for 2101): credit or registration in Math 1052; (for 2102): credit in Math 1052. 3 hrs. lecture/demonstration. For students majoring in mathematics, chemistry, or some area of engineering. Credit will not be given for these courses and Physics 1003-1004, 1201-1202, or 2001-2002. Principles and applications of mechanics, heat, sound, light, electricity, and magnetism; modern physics.

2108-2109 Laboratory Work in Technical Physics (1,1) Prereq. (for 2108): credit or registration in Phys. 2101; (for 2109): credit or registration in Phys. 2102. 2 hrs. lab. Credit will not be given for these courses and Phys. 1208-1209 or 2008-2009. Labs to accompany Phys. 2101-2102.

2111 Elementary Mathematical Physics (3) Prereq: Phys. 1202 or 2102. Mathematical methods of physics; application to selected problems in physics.


2221 Mechanics of Particles and Rigid Bodies (3) Prereq: Phys. 2111 or Chem. 4581 or ME 4553; and credit or registration in Math 2065. Single particle dynamics, the harmonic oscillator, Lagrangian mechanics, central force motion, the inertia tensor, and rigid body dynamics.

2231 Electricity and Magnetism (3) Prereq: Phys. 2111 or Chem. 4581 or ME 4553: and credit or registration in Math 2065. Electricity and magnetism; static and quasi-static electromagnetic fields in vacua and in dielectric and magnetic media.

2401 Introduction to Concepts in Physics (3) Prereq: Math 1012 or 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.

4008 Physics Laboratory for Teachers (1) Prereq: Phys. 2002 and 2009. 3 hrs. lab. For teachers and students in the College of Education. Laboratory and demonstration experiments and techniques.

4051 Introduction to Atomic and Nuclear Physics for Teachers (3) Prereq: a one-year college course in general physics. For teachers and students in the College of Education. Atomic and nuclear physics.

4055 Atomic and Nuclear Physics for Engineers (3) Prereq: Phys. 1202 or 2102, and Math 2065. Atomic and nuclear physics; emphasis on atomic and nuclear structure, nuclear radiation and energy, and applications.

4112 Intermediate Mathematical Physics (3) Prereq: Phys. 2111 or Chem. 4581; and credit or registration in Math 2065. Mathematical methods of physics, with application to selected problems in physics.

4122 Mechanics of Periodic and Cyclic Motions (3) Prereq: Phys. 2221. Continuation of Phys. 2221; emphasis on oscillatory systems.

4125-4126 Thermodynamics and Statistical Mechanics (3,3) Prereq: Phys. 2111 or Chem. 4581 or ME 4553; and credit or registration in Math 2065. Basic physical concepts and methods appropriate for description of systems involving many particles; unified viewpoint of thermodynamics, statistical mechanics, and kinetic theory.


4135 Principles of Optics (3) Prereq: Phys. 2111 or Chem. 4581 or ME 4553; and credit or registration in Math 2065. Fundamental principles of physical optics and optical instruments.

4141-4142 Introduction to Quantum Mechanics (3,3) Prereq: Phys. 2111 or Chem. 4581 or ME 4553; and credit or registration in Math 2065. Elementary principles of quantum mechanics.
For hrs. repeated degree Phys. only.

4219 Advanced Modern Physics Laboratory (3) Prereq: Phys. 2209 or 4055 or 4141. 1 hr. lecture; 6 hrs. lab/computations. Lab work/computations in electricity and magnetism, optics, and atomic, nuclear, and solid state physics.

4251 Atomic Physics (3) 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) Prereq: Phys. 2209 or 4055 or 4141 or Chem. 4492. Properties of the crystalline state and the free-electron; band theories of metals, insulators, and semi-conductors.

4271 Nuclear Physics (3) 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) Prereq: Phys. 4198 or consent of instructor and department chairman. Individual research: project conducted and reported under supervision of individually selected adviser.

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 credit for a maximum of 6 sem. hrs. Individual reading and theoretical and/or experimental work on advanced problems in physics.


6121 Classical Physics for Teachers (4) Prereq: Phys. 2002 or 2102. For high school and junior college teachers; part of the M.N.S. degree program. Offered summer only. Application of conservation principles to development of classical physics.

6141 Quantum Physics of Atoms, Molecules, Solids, and Nuclei for Teachers (4) Prereq: Phys. 2002 or 2102. For high school and junior college teachers; part of the M.N.S. degree program. Offered summer only. Origins of quantum theory; application to atoms, molecules, solids, and nuclei.

6181-6182 Astronomy and Physics for Secondary School Teachers (4,4) 5 hrs. lecture; 1 hr. conference; 3 hrs. lab. Offered summer only. Solar system astronomy integrated with elementary physics.

6191 Research Participation for Teachers (3) Prereq: Phys. 2002 or 2102. Offered summer only.

6198 Laboratory Methods for Teachers (3) 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. Offered summer only. 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) Prereq: Phys. 2002 or 2102. For high school and junior college teachers; part of the M.N.S. degree program. Offered summer term, on demand. May be repeated for credit for a maximum of 6 sem. hrs.

7211-7212 Mathematical Methods of Theoretical Physics (3,3) Prereq: Phys. 4112 or consent of instructor. Advanced topics in mathematical methods of theoretical physics; mathematical foundations of quantum mechanics.

7221 Classical Mechanics (3) Study of particle mechanics and rigid body mechanics using the methods of Lagrange’s equations, Hamilton’s equations, canonical transformations, and Hamilton-Jacobi theory.

7223 Mechanics of Deformable Bodies (3) Mechanics of inviscid and Newtonian viscous fluids; elasticity of solids.

7225 Statistical Mechanics (3) Principles of classical and quantum statistics, with application to special problems.

7231-7232 Classical Electrodynamics (3,3) Problems in electrostatics and magnetostatics; Maxwell’s equations, electromagnetic waves, wave guides, and antennas; relativistic electrodynamics and radiation from moving charges.

7235 Special Relativity (3) Postulates of special relativity, relativistic mechanics, electrodynamics, radiation, radiation reaction, and general classical theory of fields.

7236 General Relativity (3) General tensor analysis; postulates of general relativity, field equations, equations of motion, interior and exterior Schwarchild solutions; cosmology.

7241-7242 Quantum Mechanics (3,3) Prereq: Phys. 4142 or consent of instructor. Basic concepts of nonrelativistic quantum mechanics, operators and matrices, intrinsic and orbital angular momenta, perturbation theory, atomic structure, second quantization, and scattering theory.

7260 Low-Temperature Physics (3) Properties of matter at temperatures near absolute zero; methods of producing low temperatures; superfluidity of liquid helium, superconductivity, magnetic effects, and adiabatic demagnetization.


7282 Cosmic Rays and Meson Physics (3)

7343 Advanced Quantum Mechanics (3) Prereq: Phys. 7242. The Lorentz group, relativistic wave equations, introduction to quantum field theory.


7373-7374 Nuclear Physics (3,3) Prereq: Phys. 4271 and 7241. 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) May be taken 3 times for credit.
Astronomy (Astr.)

1101 The Solar System (3) Credit will not be given for both this course and Astr. 1111-1112. Fundamental principles of the solar system.

1102 Stellar Astronomy (3) 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) Prereq: Math 1021 and 1022, or Math 1023; or eligibility for Math 1050. 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) Prereq: Astr. 1101 and 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.

4211 Celestial Mechanics (3) Prereq: Phys. 2221. Offered on demand. The two-body problem, orbit determination, the three- and n-body problems, and perturbations.

4221-4222 Introductory Astrophysics (3,3) Prereq: Phys. 1202 or 2102 or consent of instructor. Sun, stars, and stellar systems; results and problems of modern astrophysical research.

4251 Solar System Astrophysics (3) Prereq: Phys. 4132 or consent of instructor. Physical principles in solar system astronomy; atmosphere and interior of planets of the solar system; natural satellites, comets, meteors, and interplanetary matter.

4261 Modern Observational Techniques (3) Prereq: Astr. 4221-4222, Math 2065, and consent of instructor.
7283 Stellar Interiors (3) Prereq: Math 2065 or consent of instructor. Physical properties of stellar material; structure and evolution of stars, polytropes, opacity and energy generation, stellar models, red giants and white dwarfs, and pulsating stars.

7291 Galactic Structure (3) Prereq: consent of instructor. Structure of the Milky Way; statistical, photometric, galactic rotation, and radio-astronomical data.

7292 Stellar Motions (3) Prereq: consent of instructor.

### Physical Science (PhSc)

1001-1002 Physical Science (3,3) 3 hrs. lecture/demonstration. Not intended for students who plan to study one of the physical sciences; cannot be substituted for the basic course in any of these fields. Significant developments in astronomy, physics, chemistry, and geology.

### DEPARTMENT OF PLANT PATHOLOGY AND CROP PHYSIOLOGY

**HEAD:** W. Martin, Professor  
**OFFICE:** 302 Life Sciences Building  
**PROFESSORS:** Anzalone, Baker, Black, Holcomb, Hollis, Horn, Lindberg, Paliatseas, Rush, Stamper, Steib  
**ASSOCIATE PROFESSORS:** Blackmon, Damann, Derrick, Harger, F. Martin, Snow  
**ASSISTANT PROFESSORS:** Bethlenfalvy, Clark, Cohn, Jones

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 with a concentration in plant pathology, crop physiology, or weed science should take undergraduate courses in plant physiology, microbiology, entomology, soils, genetics, organic chemistry, physics, and calculus.

### Plant Pathology (PIPa)

3060 Introductory Plant Physiology (4) 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.  

4000 General Plant Pathology (3) 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, mycoplasm, and nematodes; abiotic causes of disease; concepts and methods of disease control using examples of diseases affecting Louisiana crops and ornamentals.

4001 Plant Disease Management and Control (3) Prereq: PIpa 4000; and 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.

4010 Diseases of Sugarcane (3) 2 hrs. lecture; 2 hrs. lab. Sugarcane—its diseases and their control; breeding of disease-resistant varieties.

4011 Forest Pathology (3) 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 Fruit, Ornamental, and Vegetable Crops (3) Prereq: PIpa 4000. 2 hrs. lecture; 3 hrs. lab. Offered in 1979-80 and alternate years. Diseases affecting fruit, ornamental, and vegetable crops; their identification, economic importance, and control. Black, Holcomb

4013 Diseases of Cereal, Forage, and Sugar Crops (3) Prereq: PIpa 4000. 2 hrs. lecture; 3 hrs. lab. Offered in 1979-80 and alternate years. Diseases affecting cereal, forage, and sugar crops; their identification, economic importance, and control. Damann, Lindberg, Rush

4020 Phytonematology (4) 2 hrs. lecture; 4 hrs. lab. Taxonomy, identification, and control of plant parasitic nematodes. Birchfield*

4070 Principles of Weed Control (4) Prereq: PIpa 3060 or consent of instructor. 3 hrs. lecture; 3 hrs. lab. Offered every fall. Principles and practices of weed control in agricultural crops; weed ecology, mechanisms of herbicide action and selectivity; characteristics and uses of important herbicides. Harger

7002 Methods in Plant Pathology (3) Prereq: PIpa 4000 or equivalent. 1 hr. lecture; 4 hrs. lab. Offered in 1980-81 and alternate years. Research methods in plant pathology, with emphasis on techniques and instrumentation used in research on diseases caused by fungi, bacteria, and viruses. Holcomb

7003 Disease Diagnosis and Control Practices (3) Prereq: consent of instructor. 3 hrs. lecture; 6 hrs. lab. Offered summer only. Primarily for Ph.D. students majoring or minoring in plant pathology or M.S. students major-
7019 Ecology and Control of Plant Nematodes (3) Prereq: IPa 4000 and 4020; or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Offered in 1979-80 and alternate years. Ecology and economic control of plant nematodes attacking crop plants of greatest importance; practical nematode control measures in Louisiana crop, garden, and turf plants.

Berggren*, Black, Whitman**

7020 Ecology and Control of Plant Nematodes (3) Prereq: IPa 4000 and 4020; or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Offered in 1979-80 and alternate years. Ecology and economic control of plant nematodes attacking crop plants of greatest importance; practical nematode control measures in Louisiana crop, garden, and turf plants.

Berggren*, Black, Whitman**

7032 Agricultural Mycology (4) 3 hrs. lecture; 3 hrs. lab. Offered in 1980-81 and alternate years. Fungi important to agriculture, including plant pathogens, mycorrhizae, and entomogenous fungi; emphasis on taxonomy, morphology, agricultural and ecological significance; lab includes collection, isolation, cultivation, and identification of specimens.

Jones Hollis

7040 Plant Virology (4) Prereq: IPa 4000 and 7063; or equivalents. 2 hrs. lecture; 4 hrs. lab. Offered in 1980-81 and alternate years. Viruses as causal agents of plant diseases; biological, chemical, and physiological properties of plant viruses; methods of transmission; host-virus and vector-virus relationship.

Derrick

7051 Advanced Topics in Plant Pathology (1-4) Prereq: consent of instructor. May be repeated for credit for a maximum of 8 sem. hrs. Offered on demand. Topics in plant pathology not covered in other courses.

7052 Seminar (1) May be taken 3 times for credit for each graduate degree. Topics to be announced prior to registration.

**Assistant Specialist, Plant Pathology, Cooperative Extension Service.

DEPARTMENT OF POLITICAL SCIENCE

CHAIRMAN: Crabb, Professor

PROFESSORS: Arango, Bolner, Richards, Sandoz, Weber

ASSOCIATE PROFESSORS: Cárdenas, Eubanks

ASSISTANT PROFESSORS: Falkowski, Grosser, Huckfeldt, Zwick

Students concentrating in political science in the College of Arts and Sciences must complete a minimum of 33 semester hours in political science courses. Of the total hours in political science, a minimum of 18 hours must be completed in courses numbered 3000 and above. Coursework must be divided as follows: 12 hrs. in one area; 6 hrs. in each of two additional areas; and 9 hrs. or more which may be distributed among any areas. These areas are: (1) American government and politics; (2) comparative government and politics; (3) international politics and law; and (4) political theory. A listing of courses grouped by areas is available from the departmental office. Poli. 2051 is required of all undergraduate majors. Poli. 1001, 3909, and 4099 cannot be used by undergraduates to satisfy area requirements, but may be counted in fulfilling the 33 hours required of majors. No course shall be accepted as meeting the requirements for more than one area.

Honors work in political science is provided through the following courses: Poli. 3000, 3896, and 3897. A special curriculum leading to the B.A. with honors in political science is offered. Details are available from the departmental office.

Political Science (Poli.)

1001 Fundamental Issues of Politics (3) Central questions at issue in politics; emphasis on their significance for the American scene.

2051 American Government (3) Required of all under-

graduate majors. Principles, structures, processes, and functions of American government; emphasis on national government.

2053 Introduction to Comparative Politics (3) For stu-
dent's interest in comparative or international politics. Concepts, methods, and problems of comparative political analysis; modern and developing political systems, with emphasis on theoretical and substantive concerns.

2056 Government of Louisiana (3) Prereq: Poli. 2051 or consent of instructor. State and local government and politics in Louisiana.

2057 Introduction to International Politics (3) 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 among nations; foreign policies of the major powers. Crabb, Falkowski

2060 Introduction to Political Theory (3) For students interested in political theory. Basic concepts and principles of analysis of normative and empirical political thought. Eubanks, Sandoz

3000 Honors Thesis (3) Culmination of student's work in political science honors program; details available from department.

3896, 3897 HONORS: Readings Course (1-3,1-3) Same as Poli. 4996, 4997, with special honors emphasis for qualified students.

3909 Contemporary Political Issues (3) For undergraduates students majoring in political science or other social sciences 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; specific topic for each semester announced before preregistration; students present papers and reports; discussion method emphasized.

4010 Introduction to Public Administration (3) Prereq: Poli. 2051. Principles and practices of administering public policy. Richards

4011 Bureaucracy, Politics, and Public Policy (3) Prereq: Poli. 2051 or 4010. Interrelationships between bureaucracy and politics in formulation of public policy and its execution; forces and forms affecting these relationships and their subsequent consequences. Richards

4015 American State Politics (3) Prereq: Poli. 2051 or consent of instructor. Government in the American states; their political patterns, structures, and public policies. Weber

4016 Local Government (3) Prereq: Poli. 2051 or consent of instructor. Form, structure, function, and problems of county, municipal, and district governments in the U.S.; emphasis on practical aspects. Huckfeldt

4017 Urban Affairs (3) Prereq: Poli. 2051 or consent of instructor. Patterns of urban growth and development; problems of urban government. Huckfeldt

4020 American Constitutional Law (3) Prereq: Poli. 2051 or consent of instructor. Law of the Constitution and place of the Supreme Court in the American political system; separation of powers, judicial review, federalism, and federal powers. Bolter

4021 The American Constitution and Civil Liberties (3) Prereq: Poli. 2051 or consent of instructor. Political relevance of major federal constitutional limitations; property rights; First Amendment freedoms; rights of criminal defendants and ethnic minorities. Bolter

4022 Jurisprudence (3) Prereq: Poli. 2051 or consent of instructor. Legal philosophies of natural law, positivism, idealism, sociological jurisprudence, and legal realism; relationships of law, morals, and political order. Bolter

4023 Judicial Politics (3) Prereq: Poli. 2051. Political role of U.S. state and federal courts from a comparative perspective; organization, staffing, financing, judicial policy-making; public perception of the judicial process. Bolter

4030 Public Opinion and Political Participation (3) Offered in alternate years. Distribution of beliefs and attitudes among the mass public; emphasis on attitude formation and change. Grosser

4031 Political Parties in the United States (3) Structure and function of political parties at local, state, and national levels; voting studies of presidential elections. Grosser

4032 Pressure Groups and Public Policy (3) Offered in alternate years. Interest-group politics; effect of voluntary organizations on political behavior. Grosser

4035 The Legislative Process (3) Prereq: Poli. 2051 or consent of instructor. Legislative politics, particularly in the U.S. Congress; role of party, constituency, and legislative institutions as they affect legislative behavior and public policy; place of Congress in the larger American political system.

4036 The American Presidency (3) Prereq: Poli. 2051 or consent of instructor. Place of the presidency in the American political system; emphasis on process of presidential selection, evolving role of the president in the system, politics of the executive apparatus of the presidency, and presidential interaction with other political institutions and actors.

4041 International Law (3) Prereq: Poli. 2057 or consent of instructor. Development and theoretical foundations of international law; law of peace, war, and neutrality; treaty law with emphasis on recognition, war crimes, law enforcement, state responsibility, and diplomatic immunities under the United Nations. Falkowski

4042 International Organization (3) Origins, development, and future of international organization; primary reference to the United Nations. Falkowski

4043 American Foreign Policy (3) "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, particularly in recent years. Crabb

4044 The Contemporary International System (3) Prereq: Poli. 2057 or consent of instructor. Significant developments, problems, and emerging 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 deter-
Curriculum and game theory; decision-making theory; integration theory; conflict and conflict-resolution theory.  

Crabb, Falkowski

4060 British Government and Politics (3) Political institutions, philosophy, and behavior of contemporary Great Britain; emphasis on relationship between British politics and culture.  

Arango

4061 French Government and Politics (3) Political institutions, philosophy, and behavior of contemporary France; emphasis on relationship between French politics and culture.  

Arango

4062 Western European Governments and Politics (3) Analysis of political institutions; culture; behavior of West Germany, Italy, Spain, the Low Countries, and Scandinavia; does not include Great Britain and France. Arango

4064 Comparative Politics of Developing Areas (3) 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 in promoting political development and social change.  

Falkowski

4065 Latin American Governments and Politics (3) Governmental and political processes of Latin America; their contributions to modern government. Cárdenas

4066 Inter-American Relations (3) U.S.-Latin American relations; political, economic, and cultural relations among the Latin-American states. Cárdenas

4070 Russia and the Soviet Empire (3) Contemporary Soviet political, social, and economic institutions and processes; Marxist-Leninist heritage, role of the Communist Party in Soviet politics; Soviet policy process and its outputs; rights of the Soviet citizen. Zwick

4071 Soviet Foreign Policy (3) Foreign policy of the Soviet Union in terms of communist ideology, traditional Russian national interest, and Russia’s interests as a world power. Zwick

4072 Government and Politics of East Central Europe (3) Political systems of East Europe under Communist regimes analyzed, with emphasis on comparison of their common problems and methods; role of these party-states within the Communist system. Zwick

4073 Contemporary Communist Movements (3) Ideologies and operations of modern major socialist and communist movements; emphasis on variation from traditional Marxist themes and the established Soviet model, particularly in left-wing movements of the non-Western world; polycentrism, Maoism, Castroism, African Socialism, and national-liberation movements. Zwick

4077 The Middle East (3) The governments and politics of the Middle East; emphasis on modern Arab nationalism, major political trends since independence, the Arab-Israeli dispute, intra-Arab relations, and the role of the region in global affairs. Crabb

4080 American Political Thought (3) Development of the American liberal-democratic tradition and dissent to that tradition. Eubanks

4081 History of Political Theory from Plato to Aquinas (3) Prereq: Poli. 2051 or consent of instructor. Ancient and medieval political thought. Sandoz

4082 History of Political Theory from Machiavelli to Burke (3) Prereq: Poli. 2051 or consent of instructor. Early modern European political thought. Sandoz

4095 Contemporary Political Theory (3) Political thought of the 19th century; emphasis on liberalism, idealism, socialism, anarchism, and Marxism. Eubanks

4096 Contemporary Political Theory (3) Political thought of the 20th century; emphasis on liberalism, modern totalitarianism, conservatism, Freudianism, existentialism, and democracy. Eubanks

4099 Scope and Methods (3) Politics and government; emphasis on behavioralism, functional analysis, systems theory, decision-making theory, communication models, conflict resolution, and normative analysis.

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; conferences, reports, and group discussions.

7900 Seminar in American Politics (3) Macro-level approach to the American political process; emphasis on major representative works within the subfields of American politics; evaluation of current levels of knowledge and contemporary trends and analysis of relationships among various elements of the American political system.

7910 Seminar in Public Administration (3) Richards

7915 Seminar in State and Local Government (3) Weber

7920 Seminar in Public Law (3) Bolner

7931 Seminar in Political Parties (3) Grosser

7935 Seminar in Legislative Politics (3) Literature on legislative institutions and processes; emphasis on the American context, particularly Congress.

7940 Seminar in International Politics (3) Crabb, Falkowski

7960 Seminar in Comparative Government (3) Arango

7962 Seminar in Research Design and Quantitative Techniques (3) Scientific requirements of research, related measurement problems, and quantitative data analysis techniques.

7965 Seminar in Latin-American Government and Politics (3) Cárdenas

7973 Seminar in Communist Studies (3) Different problem or topic considered each semester; students do individual research and report findings within the seminar framework; emphasis on use of primary data sources; no text.

7980 Seminar in American Political Thought (3) Eubanks
Political Science

7981 Seminar in Political Theory (3) Sandoz
7995 Seminar in Contemporary Political Theory (3) Eubanks
7998, 7999 Readings Course (3,3)
8000 Thesis Research (1-9 per sem.)
9000 Dissertation Research (1-9 per sem.)

PORTUGUESE
(See Department of Foreign Languages, page 284.)

DEPARTMENT OF POULTRY SCIENCE

HEAD: Watts, Professor
PROFESSOR: Johnson
ASSOCIATE PROFESSORS: Farr, Hebert
INSTRUCTOR: Satterlee

Poultry Science (PISc)

1049 Poultry Production (3) 2 hrs. lecture; 2 hrs. lab. Fundamental principles and practices of poultry production under Louisiana conditions. Johnson

3001 Apprenticeship in the Poultry Industry (3-6) Prereq: junior standing with an overall grade-point average of 2.50 on all work taken at LSU; consent of department head and industry cooperators may be repeated for credit for 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. Johnson

3900 Poultry Research (1-3) Prereq: consent of department. May be repeated for credit for a maximum of 6 sem. hrs. Pass-fail grading. A project is definitely outlined, executed, and written by each student. Feeding, breeding, management, and marketing problems. Watts

4004 Market Poultry Products (3) 2 hrs. lecture; 2 hrs. lab. Preparation of eggs and poultry for market; methods of grading, packing, processing, and storing eggs and poultry. Farr

4010 Applied Poultry Nutrition (3) Prereq: AnSc 4009. 2 hrs. lecture; 2 hrs. lab. Applied poultry nutrition covering feed requirements of poultry with practice in formulating rations; identification, nature, and uses of feed-stuffs. Hebert

4051 Poultry Biology (3) 2 hrs. lecture; 2 hrs. lab. Structure, conformation, and selection of the fowl; special consideration to egg formation and oviposition; other physiological factors of economic importance. Satterlee

4061 Commercial Broiler Production (3) 2 hrs. lecture; 2 hrs. lab. Growth of the U.S. broiler industry; application of principles of nutrition, genetics, housing, management, and marketing; various types of integrated operations and contract production; visits to nearby production and processing operations. Farr, Johnson

4072 Commercial Egg Production (3) 2 hrs. lecture; 2 hrs. lab. Growth and development of the U.S. commercial egg industry; principles of genetics, nutrition, housing, management, business, and marketing; new developments in the fields of contract, production, and integration; visits to selected commercial hatchery, egg production, and egg processing and distributing installations. Watts

7003 Vitamins in Nutrition (2) Prereq: credit or registration in Bch. 4084. History, chemistry, function, and evaluation of nutritional status, requirements for various species, assay methods, and interrelationships of vitamins. Hebert

7008 Advanced Poultry Physiology (3) Prereq: consent of instructor. Satterlee

7016 Advanced Poultry Nutrition (3) Prereq: PISc 4010 or equivalent. Applications of current nutritional concepts to the scientific feeding of poultry. Watts

7090 Advanced Laboratory Techniques in Animal Research (4) Prereq: Bch. 4084 or consent of instructor. 2 hrs. lecture; 4 hrs. lab. Chemical and physiochemical methods and techniques; modern laboratory materials and equipment used in basic research. Hebert

7091 Poultry Seminar (1) 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 fields. Watts

7094 Seminar in Nutrition (1) Same as AnSc 7094, Dary. 7094, FdSc 7094, HEc 7094. May be taken twice for credit. Watts

7900 Advanced Poultry Research (1-5) Prereq: consent of department. May be repeated for credit for a maximum of 9 sem. hrs. Research in poultry nutrition, breeding, production, and market products. Watts

8000 Thesis Research (1-9 per sem.)

DEPARTMENT OF PSYCHOLOGY

CHAIRMAN: Siegel, Professor
ALUMNI PROFESSOR: Timmons
BOYD PROFESSOR: Riopelle
PROFESSORS: Dreger, Glad, Gottfried, Hoffeld, Seay, Thompson, Waters, Young
ASSOCIATE PROFESSORS: Coon, Jensen, Lane, Pereboom, Prestholdt, Pryor, Tuma, Yang
ASSISTANT PROFESSORS: Baun, Blouin, Campbell, Mathews, Moody, Rosenkrantz, Williamson

OFFICE: 102 Clyde Ingram Hall

DEPARTMENT OF PSYCHOLOGY

CHAIRMAN: Siegel, Professor
ALUMNI PROFESSOR: Timmons
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ASSISTANT PROFESSORS: Baun, Blouin, Campbell, Mathews, Moody, Rosenkrantz, Williamson

OFFICE: 230 Peabody Hall
Students concentrating 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 6 hrs. required): Psyc. 2004, 2040, 3050, 3081, 3082, 3083, 3140, 4070. Group 2 (minimum of 6 hrs. required): Psyc. 3018 or 3020 (if not taken above), 4111, 4031, 4032, 4034, 4036, 4038. Group 3 (no hours required; maximum of 6 hrs. permitted): Psyc. 2060, 2076, 2078, 4160, 4176, 4178.

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) Prereq: Psyc. 2000 or 2060 or consent of instructor. Adjustment mechanisms in normal adults; survey presentation of broad areas of abnormal behavior and major personality theories.

2011 General Statistics (3) Prereq: Math 1021; or Math 1011 and 1012; or consent of instructor. 2 hrs. lecture; 2 hrs. lab. 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; and either Psyc. 2000 or 2060; or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Senior college standing required. Classical topics in general experimental psychology; sensation, perception, learning, and motivation.

2040 Social Psychology (3) Prereq: 3 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 consent of instructor. The psychological and social development of the child.

2078 Adolescent Psychology (3) Prereq: Psyc. 2000 or 2060 or consent of instructor. Adolescent behavior considered in terms of psychological, social, and physical development.

2676 Field Experience in Developmental Psychology (1-3) 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 maximum 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 consent of instructor. 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.

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, and 2004; or consent of instructor. Determinants and dynamics of personality; theory and research.

3082 Introduction to Abnormal Psychology (3) Prereq: Psyc. 2004 or consent of instructor. Abnormal personality and behavior disorders.


3140 Advanced Social Psychology (3) Prereq: Psyc. 2040 or consent of instructor. Current theories of socialization examined in light of existing methodologies and interdisciplinary influences.

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.

4031 Sensory and Perceptual Processes (3) Prereq: Psyc. 2000 and 2017, or consent of instructor. 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.

4034 Physiological Psychology (3) Prereq: Psyc. 2000 or 2060, and 2011; or consent of instructor. Functioning of the nervous system with respect to sensation, perception, learning, and motivation.

4036 Comparative Psychology (3) Prereq: Psyc. 2000 or consent of instructor. Behavioral development across and within species; contributions, techniques, and objectives of behavioral scientists.
4038 Emotion and Motivation (3) Prereq: Psyc. 2000 or 4034; or consent of instructor. Experimental procedures, data, and theories in emotion and motivation, with emphasis on physiological relationships.

4070 Developmental Psychology (3) Prereq: Psyc. 2000 or consent of instructor. Theories of development, contemporary issues, and research findings at successive ages of human development; psychological changes throughout the life span.

4111 Intermediate Statistics (3) Preparatory course 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 explaining and interpreting adolescent behavior and problems.

4999 Independent Reading and Research in Psychology (1-6) May be repeated for credit for a maximum of 6 sem. hrs. Open to seniors and graduate students. Student responsible for registering with a faculty member and selecting area of reading or research.

7000 Proseminar in General Psychology (1) Required of all graduate students majoring in psychology during each semester of full-time residence. Pass-fail grading. Central problems of various fields of psychology; critical evaluation of the research methodology employed.

7020 Measurement of Behavior (3) Techniques and theory of behavior measurement, with emphasis on problems of data collection.

7111 Advanced Statistics (3) Machine calculation, coding, measures of centrality and variation, regression, correlation, prediction, probability, statistical inference, chi-square, t and F distributions, simple analysis of variance, multiple prediction, reliability, and validity of measurements.

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 The Measurement of Intelligence (3) Prereq: consent of instructor.

7171 Seminar in Child Clinical-Developmental Psychology (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.

7187 Seminar in Community Psychology (3) Theories, contemporary issues, and research related to understanding community psychology as a method of inquiry and intervention.

7640, 7641 Practicum in Social-Industrial Psychology (1-6, 1-6) Prereq: consent of instructor. May be repeated for credit; maximum of 9 sem. hrs. may be earned in this series. Supervised experience in social-industrial psychology.

7670, 7671 Practicum in Developmental Psychology (1-6, 1-6) Prereq: consent of instructor. May be repeated for credit; maximum of 9 sem. hrs. may be earned in this series. Supervised experience in developmental psychology.

7686, 7687 Practicum in Community Psychology (1-3, 1-3) Prereq: consent of instructor. May be repeated for credit; maximum of 12 sem. hrs. may be earned in this series. First-year graduate students concentrating in clinical psychology ordinarily take 1 sem. hr.; 2nd and 3rd year students usually take 2 seminars of 3 hrs. each. Design and conduct of psychological consultation in community development.

7688, 7689 Practicum in Psychodiagnostics and Psychotherapy (1-3, 1-3) Prereq: consent of instructor. May be repeated for credit; maximum of 12 sem. hrs. may be earned in this series. First-year graduate students concentrating in clinical psychology ordinarily take 1 sem. hr.; otherwise, registration limited to 3rd or 4th year students at the rate of 3 hrs. per sem. for two or more semesters. Supervised experience in personality assessment; individual and group psychotherapy.

7925 Survey of Projective Techniques (3) Prereq: Psyc. 3081 and 7080; or equivalents. Administration and interpretation of word association, sentence completion, figure drawing, Rorschach, and Thematic Apperception Tests for assessing normal and abnormal personalities.

7926 Advanced Personality Diagnosis (3) Prereq: Psyc. 7925 or equivalent. Administration, scoring, and interpretation of personality tests, especially the Rorschach; experience in directive and nondirective interviewing.

7938, 7939 Seminar in Experimental Psychology (3, 3) Each course may be taken twice for credit. Topics vary from semester to semester; may include discrimination learning, avoidance learning, verbal behavior, animal behavior, and brain stimulation and behavior.

7943 Group Dynamics and Human Relations (3) Theory, methods, and principles for understanding leadership and behavior in groups; effects of attraction, effectiveness, orientation, ability and persuasiveness, transfer and development of leadership potential, control and coerciveness, status and esteem, interaction probability, stress and homogeneity.
Quantitative Methods (QM)

2000 Statistical Methods and Models— I (3) Prereq: Math 1031, working knowledge of computer programming, and concurrent enrollment in Math 1035. Credit will not be given for both this course and QM 3014. 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 1035 and QM 2000. Methods of operations research; decision theory, elementary classical optimization techniques, linear programming, critical path models, and other relevant topics.

3000 Statistical Methods and Models—II (3) Prereq: Math 1035 and QM 2000. Continuation of QM 2000; emphasis on 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 Foundations 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. 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 maximum of 4 sem. hrs. Student is responsible for registering with a faculty member and selecting an area of reading and/or research.

4000 Introduction to Statistical Theory (3) Prereq: proficiency in calculus and basic statistical methods; and consent of instructor. Concepts of probability distributions and statistical inference; theoretical foundations for estimating and testing hypotheses about means, proportions, and variances; chi-square and F tests; emphasis on theory rather than application.

4010 Basic Forecasting Models (3) Prereq: Math 1035 and QM 2000. Single-equation multiple regression and time series modeling procedures for business and economic forecasting; problems of using time series data in regression models; time series modeling, including classical decomposition procedures and exponential smoothing; extensive use of computer programs for regression and time series modeling and forecasting.

4011 Sample Survey Methods (3) Prereq: Math 1035 and QM 2000. Methodology of 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: QM 2000. 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: Math 1035 and QM 2000. Decisions under uncertainty; formulation of subjective probability distributions; use of sampling information in decision making; introduction to Bayesian inference.

4020 Fundamentals of Operations Research—I (3) Prereq: QM 2001. Management science, with emphasis on theory as well as applications; theoretical foundations of linear programming; extensions of linear programming including integer and mixed-integer algorithms; Markov processes; queuing models; simulation models; applications of operations research to complex management systems; computer models used.

4021 Fundamentals of Operations Research—II (3) Prereq: QM 4020. Continuation of QM 4020; classical nonlinear optimization of unconstrained functions; Lagrange functions and Kuhn-Tucker conditions with practical applications; dynamic programming and other relevant topics.

4031 Applied Linear Models (3) Prereq: QM 3000. 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.

4095 Fundamentals of Quantitative Methods for the Social Sciences (3) Prereq: a basic course in statistics and consent of instructor. Not open to students in the College of Business Administration. Methods of operations research; emphasis on administrative applications in the social sciences; includes decision models, linear models, inventory models, critical path analysis, and simulation processes.

5014 Managerial Statistics (3) Prereq: QM 3002 or equivalent; and knowledge of a programming language. Credit will not be given for both this course and QM 2000. 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: QM 4000 or equivalent; and consent of instructor. Continuation of QM 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.

7001 Survey of Operations Research—I (3) Prereq: proficiency in basic statistical methods, calculus, linear algebra, and computer programming. Complex management problems; decision theory, classical optimization models, linear programming, duality and post-optimality analyses; critical path analysis; use of computer to solve large-scale problems; primary emphasis on applications, although some theory considered.

7002 Survey of Operations Research—II (3) Prereq: QM 7001. Continuation of QM 7001; extensions of classical optimization techniques; extensions of linear programming; dynamic optimization models; stochastic models, queuing models, simulation, and other relevant topics.

7003 Theory of Linear Programming (3) Prereq: QM 7001. Mathematical theory of linear systems, optimization, geometry and algebra of linear programming, construction of linear programming algorithms, degeneracy, duality, decomposition, integer programming, chance-constrained programming, goal programming; emphasis on mathematical theory of linear models rather than applications.

7008 Mathematical Programming (3) Prereq: consent of instructor and general knowledge of mathematics roughly comparable to a B.S. degree in mathematics. Basic properties of solutions and algorithms for solving constrained and unconstrained optimization problems; emphasis on both theory and applications.

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.

7020 Theory of Stochastic Processes (3) Prereq: QM 4000 or equivalent background. Joint, marginal, and con-
7021 Sample Survey Methods and Theory (3) Prereq: QM 4000 and 4011; or consent of instructor. Theory and 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 both theoretical foundations and applications.

7022 Multivariate Data Analysis (3) Prereq: QM 4000 and 7024; or equivalent background. A broad range of multivariate methods, including principal components, canonical correlation, factor analysis, discriminant analysis, classification procedures; includes both theory and applications.

7024 Advanced Statistical Analysis for Research— I (3) Prereq: proficiency in calculus, linear algebra, basic statistical methods, and computer programming. Methods of statistical inference; statistical estimation; 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: QM 7024 or equivalent. Continuation of QM 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: QM 4010 or 7024 or equivalent background in regression analysis. Advanced topics in forecasting; time series analysis with 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. Intended as a variable-topic course to be offered periodically as needed. Special topics in statistics and quantitative methods.

7900 Contemporary Issues in Statistics and Management Science (3) Prereq: advanced Ph.D. study and consent of instructor. Philosophical foundations of science and their implications for contemporary management science; extensive readings and discussion.

8000 Thesis Research (1-9 per sem.)

8900 Predissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-9 per sem.)

ROMANCE LANGUAGES
(See Department of Foreign Languages, page 287.)

RUSSIAN
(See Department of Foreign Languages, page 284.)

RUSSIAN AREA STUDIES (INTERDEPARTMENTAL PROGRAM)

ASSOCIATE PROFESSORS: Poponjac,1 Roider 2
ASSISTANT PROFESSORS: Bialy,1 Kaszkurewicz,1 Owen,2 Zwick3

Students concentrating in Russian area studies must complete 30 semester hours, including Economics 4020, which is required. The remaining 27 hours must be distributed among courses listed below in three other areas—political science, history, and language—but a minimum of 15 hours must be taken in one area and at least 6 hours are required in the other two. Please note that History 1001 and 1003 are prerequisite for advanced history courses; that Political Science 2051 and 2053 are prerequisite for some advanced political science courses; and that Economics 2030 or 2010 and 2020 are prerequisite for Economics 4020. 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.

Economics

4020 Comparative Economic Systems (3)

4029 The History of Eastern Europe, 1700-1914 (3) Roider

4030 The History of Eastern Europe, 1914-Present (3) Roider

4031 History of the Balkans, 1453-1878 (3) Roider

4032 History of the Balkans, 1879-Present (3) Roider

4033 History of Russia to 1861 (3) Owen

1Department of Foreign Languages.
2Department of History.
3Department of Political Science.
The following courses are designed primarily for students in other colleges or schools of the University and for persons employed in social welfare, teaching, and related positions. Full information concerning the School of Social Welfare, along with a complete listing of courses, is given in the School of Social Welfare Bulletin.

**Social Welfare (SW)**

**2000 Introduction to Social Work (3)** The field of social welfare and the profession of social work; historical survey, description of social welfare 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 consent of instructor. Changing concepts of social welfare; analysis of issues, policies, and proposals relating to meeting economic and developmental needs.

**3002 The Child and the Community (3)** Common and particular needs of children in the community; social welfare agencies and 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 in successful treatment of delinquent children; how communities are organized and mobilized to give competent help to troubled youth and to prevent start and spread of juvenile problems.

**3008 Workshop: Services to Families and Children in Trouble (3)** Helping families and children meet needs and problems; meaning and effects of limited income, separation, unmarried parenthood, mental or physical illness,
delinquency, and disturbed family relationships; methods and resources for strengthening family life and helping family members to help themselves.

3010 Fundamentals of Supervision (3) Prereq: experience in social welfare work and in supervision; or consent of instructor. Basic principles of supervision, including teaching and learning process, methods of developing and improving skill, and techniques in supervision.

DEPARTMENT OF SOCIOLOGY

CHAIRMAN: Jenkins, Professor
PROFESSORS: Howard, Jones
ASSOCIATE PROFESSORS: Andreassen, Durant, Falk, Grimes, Perez, Purtle
ASSISTANT PROFESSORS: Bankston, Cunningham, Deseran, Green, Groth, Haas, Hansen, Ohlendorf
INSTRUCTOR: Kenyon

Students in the College of Arts and Sciences concentrating in sociology are required to complete a minimum of 31 semester hours in this field, including Sociology 2001, 2201, 2211, and 3101. A grade of "C" or higher must be earned in each of those courses. Of the total hours required in sociology, a minimum of 15 must be taken at the 3000 level or above. At least one course must be selected from each of the five major content areas: social organization (Socl. 2351, 4301, 4311, 4321, 4331, 4341, 4351, 4361); social institutions (Socl. 2411, 4401, 4411, 4421, 4431, 4441, 4451, 4461); social issues (Socl. 2501, 3501, 3505, 4501, 4511, 4521, 4531, 4551, 4561); social interaction (Socl. 3601, 3605, 4601, 4611, 4621); and population and ecology (Socl. 2721, 2741, 4701, 4711). Mathematics 1011 or 1021 and Philosophy 102 are required. All sociology majors are required to take the Undergraduate Program Examination in sociology administered by Educational Testing Service, Princeton, New Jersey, as a condition for graduation. The examination is given by the department. Students are strongly advised to schedule all College of Arts and Sciences and departmental lower-level requirements in their first two years. Students not concentrating in sociology may take any course in the department, provided they meet the prerequisites or obtain consent of the instructor concerned.

A special program leading to the B.A. degree with 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 on page 90.

Sociology (Socl.)

1005 Social Life in the United States (3) Open only to foreign 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) Topics vary from semester to semester.

2201 Introduction to Statistical Analysis (4) 3 hrs. lecture; 2 hrs. lab. Completion of Math 1011 or 1021 is strongly recommended before taking this course. Also offered as ExSc 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 equivalents. Scientific methods and their application in sociological research, including problem selection, research design, measurement, data sources, and evaluation of data.

2351 Rural Sociology (3) Primarily for students in the College of Agriculture: may not be taken by students who have credit for or are enrolled in Socl. 4351. Principles of sociology and their application to rural life.

3011 Community Services and the Aged (3) The aged population; their service needs; available resources and services in the community; ways to assist the aged in obtaining services; implications for the future; emphasis on the social welfare system.

4003 Penology (3) Development and operation of the penitentiary in society; dilemma of punishment versus rehabilitation; problems inherent in the operation of adult prison units.
3505 Poverty in the United States (3) Prereq: Socl. 2001 or 2501 or equivalent. Definition of poverty, its meaning, measurement, causes, correlates, and consequences; strategies for its amelioration and elimination.

3601 Social Interaction (3) Prereq: Socl. 2001 or equivalent. Human behavior as social interaction.

3605 Collective Behavior (3) Prereq: Socl. 2001 or equivalent. Sociological analysis of noninstitutionalized group behaviors; crowds, publics, panics, fads, hostile outbursts, and social movements.

3901 Directed Reading and Research in Sociology (1-3) Prereq: Socl. 2001 or equivalent. May be repeated for credit for a maximum of 3 sem. hrs. Student registers with a faculty member before formal registration to select the area of reading or research. Topic must not substitute for regularly offered courses unless reading goes beyond a standard course's offerings.

3905 Senior Thesis Research (3) Prereq: Socl. 3901; open to seniors who are candidates for a bachelor's degree with honors in sociology. Supervised research and preparation of a senior thesis.

3911 Research Practicum in Rural Sociology (1-3) Prereq: Socl. 2211, 2351 and 3101. May be repeated for credit for a maximum of 3 sem. hrs. Student registers with a faculty member and in consultation selects a research problem. Supervised research experience in rural sociology, including design, execution, and reporting.

4091 Selected Topics in Sociology (1-3) Prereq: Socl. 2001 or equivalent. May be repeated for credit for a maximum of 3 sem. hrs. Topics vary from semester to semester.

4111 Development of Social Thought (3) Prereq: Socl. 2001 or equivalent. Early social thought contributing to classical and contemporary sociology.

4211 Intermediate Research Methods (3) Prereq: Socl. 2211 or equivalent. Also offered as Psyc. 4017. Selected techniques and procedures in sociological research; alternative research designs, measurement, sampling procedures, techniques of 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 their environment.

4321 The Community (3) Prereq: Socl. 2001 or equivalent. Classical and contemporary perspectives on the community; emphasis on theoretical and methodological issues associated with community studies.

4331 Social Stratification (3) Prereq: Socl. 2001 or equivalent. Class and rank structures 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 and Hist. 1003 or 2021; or equivalents. Major theoretical and empirical problems in the study of social change.

4351 Rural Social Organization (3) Prereq: Socl. 2001 or 2351 or equivalent. Social organization in rural societies; groups, organizations, institutions, and communities.

4361 Latin American Societies (3) Prereq: Socl. 2001 or equivalent. Overview of Latin American societies; emphasis on social structure; social 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; religion 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.

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.

4561 Sociology of Force and Violence (3) Prereq: Socl. 2001 or equivalent. Sociological treatment of violence and force; efforts at channelling and restraining violence and force; theories of war and peace.
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; emphasis on determinants and consequences of demographic trends.

4702 Population Laboratory (1) Prereq: Socl. 2201 and concurrent registration in Socl. 4701. 2 hrs. lab. Optional lab course to accompany Socl. 4701; especially recommended for sociology majors desiring greater quantitative skills or wishing to pursue advanced studies in sociology. Development of skills involved in obtaining, analyzing, and presenting population data.

4711 Human Ecology (3) Prereq: Socl. 2001 or equivalent. Also offered as Anth. 4063. 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 (especially Marx, Weber, and Durkheim) and early American (e.g., Mead and Park) sociologists.

7131 Seminar: Contemporary Sociological Theory (3) Prereq: Socl. 7121 or consent of instructor. Current theoretical perspectives in sociology ranging from structural-functionalism to ethnomethodology.

7211 Seminar: Methods of Social Investigation (3) Prereq: ExSt 7001 or consent of instructor. Research methods in the social sciences, including interplay of theory and methods in research, formulation of research problems, research 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 consent of instructor. Assumptions central to scientific study of society; sociology and language, meaning and objectivity in sociology, technical and philosophical orientations in sociology.

7231 Seminar: Measurement Issues in Sociology (1) Prereq: Socl. 7211 or consent of instructor. Measurement issues in sociological research; levels, basic approaches, sources of invalidity and error.

7241 Seminar: Topics in Research Design (1) Prereq: Socl. 7211 and consent of instructor. May be repeated for credit for a maximum of 4 sem. hrs. if content varies. Specialized areas in sociological research design; current topics include experimental and quasi-experimental designs, survey research, evaluation research, ethnomethods, content analysis, secondary analysis, and comparative and historical analysis.

7251 Seminar: Topics in Research Techniques (1) Prereq: Socl. 7211 or consent of instructor. May be repeated for credit for a maximum of 4 sem. hrs. if content varies. Specialized areas in sociological research techniques; current topics include systematic observation, sampling, attitude measurement, social indicators, data analysis techniques, demographic analysis, and causal analysis.

7351 Seminar: Topics in Rural Sociology (3) Prereq: consent of instructor. May be repeated for credit for a maximum of 9 sem. hrs. if content varies. Specialized areas in rural sociology; current topics include history and development of rural sociology, structure of agriculture, development and social change, and rural social organization.

7391 Seminar: Topics in Social Institutions (3) Prereq: consent of instructor. May be repeated for credit for a maximum of 12 sem. hrs. if content varies. Specialized areas in social organization; current topics include complex organizations, formal organizations, the community, social stratification, and Latin American societies.

7491 Seminar: Topics in Social Organization (3) Prereq: consent of instructor. May be repeated for credit for a maximum of 12 sem. hrs. if content varies. Specialized areas in social institutions; current topics include the family, political sociology, sociology of education, sociology of medicine, and criminology.

7591 Seminar: Topics in Social Issues (3) Prereq: consent of instructor. May be repeated for credit for a maximum of 9 sem. hrs. if content varies. Specialized areas in social issues; current topics include race and ethnic relations, deviance, the aged, and sex roles.

7691 Seminar: Topics in Social Interaction (3) Prereq: consent of instructor. May be repeated for credit for a maximum of 9 sem. hrs. if content varies. Specialized areas in social interaction; current topics include social interaction perspectives, personality and social structure, individuals in organizations, and social psychological determinants of health and illness.

7791 Seminar: Topics in Population and Ecology (3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. if content varies. Specialized areas in population and ecology; current topics include population composition and dynamics and population and ecology of rural areas.

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 (1-9 per sem.)

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 (1-9 per sem.)
SPANISH
(See Department of Foreign Languages, page 285.)

DEPARTMENT OF SPEECH

CHAIRMAN: Pennybacker, Professor
OFFICE: 217 Music and Dramatic Arts Building

PROFESSORS: Bradford, Doty, Gilmore, Merritt, Peterson, Ragsdale

ASSOCIATE PROFESSORS: Harbin, HopKins, Jetty, Mixon, Patton

ASSISTANT PROFESSORS: Burton, Cooper, Cottrell, Dixit, Fields, Hudson, Mangan, Renshaw, Tandberg, Tani

INSTRUCTORS: Anderson, Garay, Hamilton, Travis, Vance

Requirements for Undergraduate Students Concentrating in Speech

Students concentrating in speech must:
1. take Speech 1050 and 1061;
2. take at least 12 semester hours in speech courses numbered above 3000;
3. take a minimum of 30 semester hours in speech subjects chosen from at least three of the following six fields: public speaking, discussion, and debate; interpretation; speech and hearing correction; drama; phonetics and voice science; radio and television; communication theory; and
4. consult one of the undergraduate advisers in speech (Merritt, Ragsdale, or HopKins), or any other faculty member assisting them, with regard to the above items and related matters.

Requirements for Students Concentrating in Speech Pathology and Audiology

Students enrolled in the Department of Speech with concentration in speech pathology and audiology will have their progress and qualifications reviewed at various stages in their training program by a committee of three faculty members.

The first review will occur while the students are enrolled in Speech 4079 at which time each student must pass a speech proficiency examination. Speech proficiency also must be demonstrated prior to enrollment in Speech 4683.

The second review will occur following completion of the following five courses: Speech 2081, 4079, 4150, 4152, and 4153. No student with an overall average of less than 2.50 will be considered for admission into the program. Only the 24 students* having the highest combined ranks based on overall grade-point average and average in the five courses listed above will be accepted. The 24 students accepted will be permitted to enroll in Speech 4080, 4181, and 4683.

The third review will occur following completion of Speech 4080, 4181, and 4683 with minimum grades of “B.” At this time, personal and professional characteristics considered important for clinical success will also be evaluated.

The fourth review will precede admission to the graduate program. Admission to the graduate program will be based on grade-point averages, scores on the Graduate Record Examination, 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 Type B or A certificate as a Speech, Language, and 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 and Hearing Association.**

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 of Speech 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 complete gamut of disorders is handled, including articulation, stuttering, cleft palate, voice disorders, aphasia, cerebral palsy, children’s language disorders, and hearing disorders. Students specializing 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 Cerebral Palsy Center of Greater Baton Rouge, and the East Baton Rouge Parish public schools.

Those requesting clinical services should contact the Speech and Hearing Clinic, Music and Dramatic Arts Building.

*Restriction on the number of undergraduate students admitted to the program (24) is necessitated by limitations of faculty and space.
**Undergraduates can meet the requirements for the Type C certificate (a temporary three-year certificate, renewable for an additional two years), during which five years the individual must complete the master’s degree or equivalent in order to qualify for a Type B certificate and continue in a public school position. All students should be counseled by an adviser in speech pathology and audiology regarding the appropriate programs in the Colleges of Arts and Sciences or Education.
1020 Introduction to Theatre (3) An honors course. Sph. 1021, is also available. Introduction to theatre as an art form and to dramatic structure, forms, and styles.

1021 HONORS: Introduction to Theatre (3) Same as Sph. 1020, with special honors emphasis for qualified students. Dramatic structure, forms, and styles; emphasis on contemporary drama, artists, and theatre practice.

1050 Speech Fundamentals: Voice and Articulation (3) Not a remedial course. Recommended for those interested in the study or teaching of language. Credit will not be given for both this course and Sph. 1055. Voice and speech production, emphasizing development of student’s vocal skills; the speech sciences.

1051 Spoken American English (3) Prereq: consent of instructor or foreign student adviser. Weekly individual work in the Speech Laboratory. Theoretical and practical treatment of pronunciation of American English for students of other languages; phonology, stress, intonation, and rhythm through drills, exercises, public speaking.

1055 Introduction to Phonetic Transcription (1) Credit will not be given for both this course and Sph. 1050. The International Phonetic Alphabet; training in discrimination and broad transcription of the sounds of American English through lectures, discussions, and exercises.

1061 Speech Fundamentals (3) Credit will not be given for both this course and Sph. 1060. An honors course, Sph. 1062, is also available. Fundamentals of speech—selection of subjects and materials, style, structure, oral and physical aspects of delivery; understanding of and practice in communicative speaking.

1062 HONORS: Speech Fundamentals (3) Same as Sph. 1061, with special honors emphasis for qualified students (students with ACT scores which qualify them for Engl. 1003 and students with a 3.00 cumulative grade-point average).

1063 Speech Communication for Business and the Professions (3) For students in the professional colleges, particularly the College of Business Administration. Instructional and report presentation; promotional and sales talks; policy speeches; speeches for special occasions; use of visual aids in explanation and demonstration; planning and conducting meetings.

2022 Introduction to Play Production (3) Prereq: concurrent registration in Sph. 2026. Louisiana Players Guild membership and attendance at regular Thursday night meetings required. Lab work in connection with Department of Speech and Louisiana Players Guild productions. Acting, directing, staging, lighting, costuming, and other aspects of producing a play.

2023 Stage Makeup (1) Fundamentals of straight and character makeup; application of laws governing line, color, light, and shade to makeup problems; opportunity for practical experience in makeup through various productions.

2024 Introduction to Stagecraft and Stage Lighting (3) Prereq: Sph. 2022 or equivalent. 4 hrs. lab. Methods and procedure in planning, construction, and painting of stage control equipment; analysis of technical production organization; participation in technical work of the Louisiana Players Guild productions.

2025 Fundamentals of Acting (3) Practical experience in workshop or major university productions required. Principles involved in forming a workable theory of acting; application of these principles through development of technical skill.

2026 Introduction to Play Production: Theatre Practice (1) Prereq: concurrent registration in Sph. 2022. 2 hrs. lab. Practical experience in theatre through work in the costume or stage shops or through stage-managing plays in the University or Workshop Theatres.

2040 Interpretative Reading (3) Reading literature aloud intelligently, with naturalness and individuality.

2060 Public Speaking (3) Credit will not be given for both this course and Sph. 1061. Introductory public speaking; delivery of carefully prepared speeches; audience analysis, collection of materials, and outlining.

2063 Argumentation and Debate (3) Prereq: Sph. 1061 or 2060. Principles of argumentation and debate, including analysis, briefing, evidence, reasoning, and refutation; debating on vital questions.

2064 Discussion and Conference Speaking (3) Aspects and problems of group leadership; actual group discussion and the problems of communication in human relations.

2065 Parliamentary Law (1) Intensive drill in standard parliamentary practices by which self-governing groups determine their course of action; basic philosophy underlying parliamentary procedures.

2070 Introduction to Broadcast Media (3) Organization, structure, and function of electronic media including history, regulation, social significance, and responsibilities.

2072 Introduction to Film (3) Nature and function of film as a mode of communication; emphasis on film theory and criticism, and on historical and technological development of the film industry; selected films screened and studied on a regular basis.

2073 Radio Production (3) 2 hrs. lecture; 3 hrs. lab. Principles of radio production and performance skills; participation in individual and group projects provides practical application of instruction in studio-equipment operation, writing, and announcing skills.

2080 Beginning Speech Correction (3) Prereq: Sph. 1050. For elementary school teachers. May not be taken for credit by students concentrating in speech pathology and audiology; such students should enroll in Sph. 2081. Common speech defects; treatment of defects that can be handled in the classroom or with a minimum amount of individual attention; recognition of defects that should be referred to experts.
2081 Overview of Speech Pathology and Audiology (3) Prereq: Spch. 1050. Required initial course for undergraduates concentrating in speech pathology and audiology. Observations in the 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. Mangan

2862 HONORS: Contemporary Public Address (3) Uses, types, and effectiveness of public address in contemporary society; limitations on free speech, influence of mass communications on public address, and contemporary rhetorical practices in politics, education, religion, business, and minority and pressure groups. Peterson

3025 Advanced Acting (3) Prereq: Spch. 2025. Emphasis on characterization and scene work. Peterson

4012 Problems in the Use of Language: Symbolic and Communicative Behavior (3) Misunderstandings in interpersonal relationships, with emphasis on more effective communication. Renshaw

4027 Playwriting (3) Theory and craft of dramatic writing and exploration of the playwright’s resources; writing plays for experimental production in the Louisiana Players Guild workshop program. Renshaw

4072 Television Production and Directing (3) Prereq: Spch. 2070 or equivalent and consent of instructor. 2 hrs. lecture; 3 hrs. lab. Programming principles in television; procedures in coordinating basic elements of setting, lighting, and microphone and camera usage in production of various program types; studio and control-room operations for individual and group performance. Pennybacker

4079 Introduction to Communicative Disorders (3) Prereq: Spch. 2081 or consent of instructor. Basic theoretical, evaluative, and remedial procedures in communicative disorders for those concentrating in the area. Barton

4080 Disorders of Articulation (3) Prereq: Spch. 4079, 4150, 4152, and 4153; or consent of instructor. Must be taken concurrently with Spch. 4683. Grade of "B" or better in this course required for admission to advanced courses in speech pathology and audiology. Articulatory development; etiology, evaluation, and treatment of articulatory disorders. Hudson

4113 Advanced Discussion (3) For teachers and directors of discussion, people in industry, and other advanced students. Renshaw

4114 Contemporary Theories of Communication (3) Survey of current methods and theories of human communication and critical review of research literature; emphasis on behavioral antecedents and consequences of messages and their variations, and on ways messages interact with communicators to produce behavioral outcomes. Raglin

4120, 4121 Drama for the Actor, Director, and Playwright (3, 3) Analysis of selected modern plays from the viewpoint of dramatic structure, acting possibilities, and directing problems. Bradford

4122 Stage Costuming (3) Basic principles of design and clothing construction; history of clothing as related to stage costume. Mixon

4123 Advanced Stage Costuming (3) Prereq: Spch. 1020 or 4120 or 4121. Advanced costume design and construction problems related to different theatrical styles and historical periods. Mixon

4124 Scenic Design (3) Basic principles of scenic design for the theatre; emphasis on form, style, color, and lighting; students produce sketches, renderings, and models. Mixon

4125 Problems in Dramatic Production (3) Prereq: Spch. 1020, 2022, and 2025; or consent of instructor. Principles of play selection and directing, casting, rehearsal; directing plays in the Workshop Theatre in connection with productions of the Louisiana Players Guild. Doty

4126 History of the Theatre (3) Prereq: Spch. 1020, 2022, 4120, 4121, or 4125. Historical development of the theatre from the Greeks to 1650. Mixon

4127 Styles of Acting (3) Prereq: Spch. 2025 and 3025. Fundamental theories and techniques of acting, with emphasis on examination and practice of acting styles required by plays of the Greek, neoclassical, Elizabethan, and modern periods. Mixon

4128 History of the Theatre—I (3) Historical development of the theatre from 1650 to 1870. Mixon

4129 History of the Theatre—II (3) Historical development of the theatre from 1870 to the present. Mixon

4130 The Development of Dramatic Art (3) Dramatic forms and their production styles from the time of Aeschylus to the advent of Ibsen. Renshaw

4140 Interpretation of Literature (3) Poetic theory applied to oral presentation of poetry. Merritt

4141 Interpretation of Literature (3) Oral presentation of narrative and dramatic forms; techniques of adaptation and oral book reviewing. Merritt

4145 Readers’ Theatre (3) Prereq: Spch. 4140 and 4141; or consent of instructor. 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. Raglin

4150 Phonology (3) Prereq: Spch. 1050 or 1055 or consent of instructor. Articulatory phonetics; close transcription of English utterances; principles of phonemics; generative phonology. Hopkins, Raglin

4152 Physiological Basis of Speech and Hearing (3) Structure, action, and control features of the speech and hearing mechanism. Raglin

4153 Acoustics of Speech and Hearing (3) Production, transmission, and perception of acoustics signals in speech communication; acoustic phonetics and psychoacoustics. Raglin

4160 Persuasive Communication (3) Prereq: Spch. 1061, 2060, 2063, or consent of instructor. Persuasive speaking; nature of persuasion in its many forms as it occurs in our society. Raglin

4164 Advanced Argumentation (3) Prereq: Spch. 2063 or 4160 or consent of instructor. For students with elementary training in argumentation and debate. Theory and application of argumentation in different types of speaking situations; recent trends in argumentation theory; argumentation in practice. Raglin
4165 History and Criticism of American Public Address (3) Prereq: Sphc. 2060 or 2063 or 4160. American public address from colonial times to the present; speeches of outstanding American statesmen, lawyers, and clergy; men, considering especially sources of their effectiveness.

4166 History and Criticism of British Public Address (3) Prereq: Sphc. 1061, 2060, 2063, or 4160. British public address from the 18th century to the present; speeches and speaking careers of outstanding British statesmen and lawyers from Pitt to Churchill. Peter son

4170 Television and Radio Writing (3) Form and substance of various program types; writing basic forms of program continuity, promotional and public service announcements, and documentary and dramatic programs for television and radio.

4171 Broadcast Management (3) Prereq: Sphc. 2070 and 2073; or consent of instructor. Problems of managing a radio and/or television station; general management, programming, sales; engineering matters related to management.

4172 History of Film (3) Prereq: Sphc. 2072 or consent of instructor. Development of film as a mode of communication and an artistic form from 1895 to the present; classic films screened and studied.

4173 Advanced Television Production and Directing (3) Prereq: Sphc. 2070 and 4072, or equivalents; and consent of instructor. 1 hr. lecture; 4 hrs. lab. Planning, developing, and producing original television productions; studio and control-room work.

4174 Radio and Television in Society (3) History of the broadcasting industry, its present structure, relationship of the industry to government and society, and growth of educational broadcasting; use of radio and television by the average citizen.

4181 Introduction to Audiology (3) Prereq: Sphc. 4079, 4150, 4152, and 4153; or consent of instructor. Elementary acoustics of hearing; anatomy of the ear; causes and detection of hearing impairment; hearing testing and conservation as related to the speech and hearing therapist.

4183 Hearing Rehabilitation (3) Prereq: Sphc. 4181 or consent of instructor. Rehabilitative principles and procedures for the hearing-impaired child and adult, including speech reading and auditory training; emphasis on practical application of theories.

4184 Language Development and Language Disorders (3) Prereq: Sphc. 4080 or consent of instructor. Language acquisition and behavior, language and cognitive development, verbal learning, and structural properties of speech; emphasis on theories of language development in the "normal" child including sensory, motor, mental, social, emotional, speech, and language skills; deaf, mentally retarded, and emotionally disturbed child also considered.

4185 Stuttering and Allied Disorders (3) Prereq: Sphc. 4080 or consent of instructor. Stuttering and allied disorders; emphasis on symptomatology, testing, rehabilitation, and prevention.

4187* Hearing Testing (3) Prereq: Sphc. 4183 or consent of instructor. Special problems in hearing testing.

4188* Language Disorders of Children (3) Prereq: Sphc. 4184 or equivalent course with consent of instructor. Methods of differential diagnosis and remediation of the major language disorders of children; differentiating deafness from mental retardation, aphasia, and emotional disorders.

4683 Clinical Practice—Therapeutic Techniques (1-4) Prereq: previous or concurrent enrollment in the course dealing with the specific disorder in which practice is to be taken. Must be taken concurrently with Sphc. 4080. May be repeated for a maximum of 6 sem. hrs. credit. Practicum in specific disorders (articulation, initial language, stuttering, initial hearing, initial voice).

4684 Advanced Clinical Practice—Therapeutic Techniques (1-4) Prereq: previous or concurrent enrollment in the course dealing with the specific disorder in which practice is to be taken. May be repeated for a maximum of 6 sem. hrs. credit. On- and off-campus practicum in specific disorders (advanced language, advanced speech, and deafness).

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.

5060 Business Communication—II (1) See Mgt. 5073.

7881* Diagnosis and Appraisal of Communicative Disorders (3) Prereq: consent of instructor. Instruments and procedures used in diagnosing speech and language disorders.

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 credit for a maximum of 6 sem. hrs. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7911 Modern Trends in Speech Communication (3)

7912 Design and Measurement in Speech Research (3) Prereq: consent of instructor. Measurement, set theory, statistics, and design in speech and hearing.

7913 Seminar: Contemporary Theories of Speech Communication (3) Prereq: Sphc. 4114 or consent of instructor. May be taken twice for credit when topics vary. In-depth criticism, interpretation, and validation of specific theories in speech communication; topics vary from semester to semester with emphasis on different theoretical perspective each time.

7915 Seminar: Research in Communication Theory (3) Prereq: Sphc. 4114 or consent of instructor. Research literature on advanced topics in communication theory, including interaction processes characterizing speech communication; students design, perform, and report original research on speech-communication variable or variables.
7916 Independent Research: Communication Theory and Research (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

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.

7924 Seminar: Evolution of Dramatic Theory (3) Major concepts of dramatic theory and practice in classical, medieval, and Renaissance periods. Harbin


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; topics may include: American theatre in the 19th century, role of the theatrical director from the 18th century to the present, history of theatrical architecture.

7929 Independent Research: Theatre (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. 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) Merritt

7942 Independent Research: Interpretation (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7952 Seminar in Linguistic Theory (3) Problems in analysis of language, emphasis on phonology and semantics. Ragsdale

7953 Instrumental Research in Speech Science (3) Prereq: Sph. 4153 or consent of instructor.

7954 Experimental Phonetics (3) Prereq: Sph. 7953 or consent of instructor. Motor and articulatory phonetics, including palatography, acoustic phonetics, and certain aspects of signal detection and perception.

7955 English for Speakers of Other Languages: Methods and Materials (3) Special problems of teaching English to speakers of other languages, both overseas and in the U.S.; contrastive analysis, preparation of materials, oral-aural training, information sources, etc.; work with foreign students. Cooper

7956 Independent Research: Phonetics and Linguistics (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7957 Independent Research: Speech Science (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7961 Seminar: Evolution of Rhetorical Theory, Classical Period (3) Mixon

7962 Seminar: Rhetorical Criticism (3) Prereq: consent of instructor. Types of speech criticism, criteria, and measures of effectiveness of public address. Peterson

7963 Seminar on Southern Oratory (3) Prereq: Sph. 4165 and 7962. Oratory of the south from about 1860 to the present; speaking of several 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 around 1529 to the present; critical discussion of major works; works by Campbell, Blair, Whately, and Kenneth Burke. Ragsdale

7965 Independent Research: Rhetoric and Public Address (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7966 Problems in Rhetorical Theory, Criticism, and History (3) Prereq: at least 12 hours (four courses) in public address. May be repeated for credit for a maximum of 6 sem. hrs. Selected problem which goes beyond present advanced course offerings in public address; topic to be announced.

7971 Independent Research: Radio, Television, and Film (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7980* Speech and Language Disorders of Neurological Origin (3) Prereq: Sph. 4080 or consent of instructor. Fundamentals of neurology, major neuropathologies of speech and language, with emphasis on their symptoms, associated problems, and management.

7981* Cerebral Palsy (3) Prereq: Sph. 7980 or consent of instructor. Speech, language, and associated problems in children having central-nervous-system disorders; diagnosis and therapy.

7982* Advanced Diagnosis and Appraisal of Communicative Disorders (3) Prereq: Sph. 7881 and consent of instructor. Continuation of Sph. 7881; emphasis on organic disorders.

7983 Seminar in Communicative Disorders: Diagnosis (3) Prereq: consent of instructor. May be repeated for credit. Selected topics pertaining to diagnosis of communicative disorders.

7984 Seminar in Communicative Disorders: Management (3) Prereq: consent of instructor. May be repeated for credit. Selected topics pertaining to management of communicative disorders.

7985 Adult Audiology (3) Prereq: Sph. 4187 or equivalent. Auditory disorders of adults, their medical management and rehabilitation; assessment and maximization of communicative ability in the hearing-impaired adult.
7986 Independent Research: Speech Pathology (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7987 Independent Research: Audiology (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. For advanced graduate students who wish to pursue research on special problems exclusive of thesis or dissertation.

7988* Advanced Hearing Measurement (3) Prereq: Sphch. 4187 or consent of instructor. Special audiological testing procedures, including Central Lesion Test, Impedance Audiometry, Evoked Response Audiometry, Identification Audiometry, Electrodermal Response, and tests of cochlear and retrocochlear pathology. Jett

7989* Voice Disorders (3) Prereq: Sphch. 4080 or consent of instructor. Diagnosis and treatment of various voice disorders including aphonia, dysphonia, and laryngeal tome speech. Hudson

7990* Orofacial Anomalies (3) Prereq: Sphch. 4080 or consent of instructor. Orofacial anatomy, physiology, and embryology; etiology and classification of orofacial cleft; surgical, dental, speech, hearing, and psycho-social concomitants and their management. Gilmore

7991* Hearing Aids and Hearing-Aid Evaluation (3) Prereq: Sphch. 4187 or consent of instructor. The development of hearing aids; their use in rehabilitation of hearing-impaired children and adults. Jett

7992* Rehabilitation of the Adult Aphasic (3) Prereq: Sphch. 7980 or consent of instructor. Neurological bases of aphasia and related disorders; appropriate therapeutic methodologies. Gilmore

7993 Hearing Science (3) Prereq: Sphch. 7953 or equivalent. Fundamentals of auditory transmission and processing from the outer ear to the cortical area; psychophysical phenomena germane to human audition.

7994 Industrial Audiology (3) Theory and practice of industrial and military hearing conservation programs; noise-induced hearing loss, noise measurement and analysis, establishment of damage-risk criteria, and federal guidelines for minimal standards; community noise problems.

7995 Educational Audiology (3) Prereq: Sphch. 4183. Core course in the preparation of the educational audiologist; research and clinical literature regarding the educational, social, and psychological concomitants of auditory disorders found among children in the public schools.

7996 Pediatric Audiology (3) Prereq: Sphch. 4183 or equivalent. Identification, measurement, and management of hearing impairment in infants and young children; childhood deafness, its causes, its audiological diagnosis, relationship of auditory manifestations to pathology, and relationship of audiologic data to expectations for habituation.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

UNIVERSITY

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 “University Critique of Alcohol and Alcohol Abuse” (1976), “University Critique of Mass Media Entertainment and Modern Literary Forms” (1977), and “University Critique of Options for the Future” (1980). 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.

UNIVERSITY LABORATORY SCHOOL

PRINCIPAL: Fox, Associate Professor
ASSOCIATE PROFESSORS: Daigle, Garon
ASSISTANT PROFESSORS: Germany, Guillot, M. Hair, S. Hair, Jones, Jordan, Mosley, Raulins, Shelby, Teague, Travis, Wooff
INSTRUCTORS: Ater, Baranco, Choate, Dampier, Davis, Evans, Fabre, Furr, Garner, Guillory, Harris, Healy, Hilton, Hurst, Lentz, Mackey, Minchew, Thompson, Tucker

The University Laboratory School, an integral part of the College of Education, is maintained for observation, research, and pre-service field experiences in grades 1 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 procedures and viewpoints.
DEAN: Besch, Professor
ASSOCIATE DEAN: Tasker, Professor
ASSISTANT DEAN: Kerr, Professor

The following 5000-level courses are utilized by students in the professional program. 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. Courses in the professional curriculum are designated as "Veterinary Medicine" (VMed) courses rather than departmental courses because of the integration of disciplines.

The following courses at the 7000 level and above are utilized by all options in the veterinary medical sciences graduate program.

Veterinary Medicine (VMed)

5100 Veterinary Medicine Unit—I (0) Fall semester enrollment block for students entering first year of the professional curriculum.

5101 Veterinary Biochemistry (3) 64 contact hours. Also offered as Bch. 4089. Physiological chemistry emphasizing cell metabolism and tissue and organ chemistry pertinent to applied comparative medicine; vital reactions with structural components of cells; interdependence of specialized cells in health and disease.

5122 Biometrics (2) 32 contact hours. Concepts and methods of statistics applied to problems related to health, morbidity, mortality, and frequency of disease in conjunction with estimations and tests of significance.

5131 Basic and Clinical Veterinary Anatomy—I (6) 192 contact hours. Teaching faculty includes members of the Departments of Veterinary Anatomy and Fine Structure and Veterinary Science. Basic structure and clinical application of the anatomy of the head and of the locomotor, cardiovascular, and pulmonary systems of domestic animals.

5132 Developmental and Microscopic Veterinary Anatomy—I (4) 112 contact hours. Basic cytology, early embryonic development, and tissue types of veterinary species; development and microscopic organology of integumentary, cardiovascular, pulmonary, and lymphatic systems.

5133 Physiology of Domestic Animals—I (5) 112 contact hours. Normal functions of the reticuloendothelial system; fundamental hematologic and immunologic mechanisms; cardiovascular dynamics; relation of pulmonary physiology to inhalation anesthesia; renal dynamics; body water compartmentalization; electrolyte and acid-base balances; shock and replacement therapy.

5141 Basic and Clinical Veterinary Anatomy—II (4) 128 contact hours. Teaching faculty includes members of the Departments of Veterinary Anatomy and Veterinary Clinical Sciences. Basic structure and clinical applications of the anatomy of the digestive, urogenital, and lymphatic systems of domestic animals.

5142 Developmental and Microscopic Veterinary Anatomy—II (3) 80 contact hours. Continuation of VMed 5132; development and microscopic organology of digestive, endocrine, and urogenital systems.

5143 Physiology of Domestic Animals—II (5) 112 contact hours. Normal functions of monogastric and ruminant digestive systems; biochemistry of fermentation and/or digestion with nutritional considerations including hepatology; endocrinological studies emphasizing interrelationships of endocrine organs and their hormones on the target cell, tissues or organs, and nonendocrine relationships; reproductive studies emphasizing neurohumoral control of male and female reproduction and gonadal and general reproductive organ changes.

5144 Veterinary Neurophysiology (2) 48 contact hours. Physiology of the neuron, synapses, and selected neuroendocrine relationships; spinal functions and reflexes; special senses; proprioceptor mechanisms; central motor activity regulation and other central nervous system functions; electroencephalography; visceral efferent nervous system; somatic motor and sensory systems; bases for neurological examinations.

5145 Veterinary Neuroanatomy (2) 48 contact hours. Anatomy of the nervous system of domestic mammals; internal organization of the brain and spinal cord; clinical localization of central nervous system lesions.

5146 Introduction to Veterinary Clinical Sciences (1) 32 contact hours. Principles of physical examination and diagnostic procedures; function and operation of a veterinary clinic; practice options.

5200 Veterinary Medicine Unit—II (0) Fall semester enrollment block for students entering second year of the professional curriculum.

5201 Comparative Nutrition (2) 32 contact hours. Nutritional needs of food- and fiber-producing animals, companion animals, and poultry; nutritional demands of the young, aged, and diseased in the various animal species.

5211 Host Response to Injury—I (5) 144 contact hours. Comparative aspects of disease mechanisms produced by physical, chemical, biological, hereditary, and ecological factors; alterations such as degenerative processes, inflammation, pigments, immunologic mechanisms, tumorgenesis, toxicologic factors, and necrosis; systematic approach to disease processes common to all animal species.

5212 Biologic Causes of Disease—I (5) 144 contact hours. Comparative morphology, physiology, and taxonomy of helminths, arthropods, protozoa, fungi, bacteria, rickettsia, chlamydia, and viruses.

5213 Host Response to Drug and Chemical Action—I (3) 80 contact hours. Brief history of veterinary pharma-
ogy and toxicology; principles of metrology and posology; fundamentals of modern prescription writing, and veterinary food and drug regulations; pharmacodynamics and toxicodynamics of drugs and poisons important to animal and human health related to therapeutics in veterinary medicine.

5214 Colloquium on Advances in Veterinary Medicine (1) 32 contact hours. Pass-fail grading. New developments and research in veterinary medicine; progress and projects of current clinical specialties; present and future programs in basic and clinical sciences.

5215 Ecology and Epidemiology of Animal Diseases (3) 48 contact hours. Basic principles and methods of ecology and epidemiology dealing with health and disease from the flock, herd, community, and population standpoint; relationships and responsibilities of the veterinarian to community health.

5221 Host Response to Injury—II (5) 144 contact hours. Continuation of VMed 5211.

5222 Biologic Causes of Disease—II (5) 144 contact hours. Continuation of VMed 5212; aggressive mechanisms of microorganisms and parasites as well as defense mechanisms of the host; host-parasite relationships; mechanisms and factors influencing effectiveness of chemotherapeutic and antiparasitic compounds; microbial sensitivity determinations and microbial resistance to drugs.

5223 Host Response to Drug and Chemical Action—II (3) 48 contact hours. Continuation of VMed 5213; phytotoxins and plant-related poisons; identification and ecology of poisonous plants indigenous to Louisiana and the surrounding regions.

5225 Fundamentals of Medical Radiations (2) 48 contact hours. Fundamental principles of radiation and its association with biomedical science, principles of roentgenology, radiation safety, and environmental problems; principles of nuclear medicine and effects of radiation on animal systems.

5226 Principles of Food Quality Control (2) 48 contact hours. Effects of diseases of domesticated animals on safety and quality of foods of animal origin; food quality control, regulatory methods related to official inspection procedures, and consumer protection.

5227 Laboratory Medicine (2) 48 contact hours. Procedures, techniques, use, and interpretation of tests significant to the diagnosis, prognosis, and treatment of disease; definition of techniques such as chromosome analysis, exfoliative cytology, immunofluorescence, pregnancy tests, skin tests, serology, and organ function evaluation of the digestive, hepatic, urinary, hemic, and nervous systems.

5228 Fundamentals of Surgery (2) 32 contact hours. Principles and techniques of surgical procedures, including anesthesia and pre- and post-operative patient management.

5300 Veterinary Medicine Unit—III (0) Fall semester enrollment block for students entering third year of the professional curriculum.


5311 Diseases of Food Animals—I (9) 256 contact hours. Principles of diagnosis, treatment, and control of diseases of cattle, sheep, and swine by correlation of subject matter from participating departments.

5312 Diseases of Horses (6) 160 contact hours. Principles of diagnosis, treatment, and control of diseases of horses by correlation of subject matter from participating departments.

5313 Diseases of Food Animals—II (4) 96 contact hours. Continuation of VMed 5311.

5321 Fundamentals of Clinics—II (1) 32 contact hours. Pass-fail grading. Continuation of VMed 5310.

5322 Diseases of Companion Animals—I (2) 56 contact hours. Principles of diagnosis, treatment, and control of diseases of dogs and cats by correlation of subject matter from participating departments.

5323 Diseases of Companion Animals—II (9) 224 contact hours. Continuation of VMed 5322.

5324 Diseases of Laboratory, Exotic, and Marine Animals (5) 112 contact hours. Principles of diagnosis, treatment, and control of diseases of laboratory, exotic, zoo, and marine animals by correlation of subject matter from participating departments.

5325 Diseases of Avian Species (3) 64 contact hours. Principles of diagnosis, treatment, and control of diseases of avian species by correlation of subject matter from participating departments; all aspects of avian species diseases, including surgery.

5400 Veterinary Medicine Unit—IV (0) Summer term and fall semester enrollment block for students entering fourth year of the professional curriculum.

5451 Diagnostic Microbiology and Parasitology (5) 200 contact hours. Coordinated with VMed 5452, 5454, and other 4th-year courses in the veterinary medicine curriculum; applied aspects of clinical microbiology and parasitology emphasized through diagnostic service assignments in areas of clinical bacteriology, clinical mycology, clinical parasitology, clinical virology, and clinical immunology and serology.

5452 Diagnostic Pathology (5) 200 contact hours. Necropsies of both avian and mammalian species; applied aspect of diagnosis; study of current cases and prepared material which stress definition of disease mechanisms and factors needed to make accurate diagnosis.

5453 Clinical Services (Clinical Pathology and Practice Management) (5) 200 contact hours. Application of procedures, methods, and techniques in clinical pathology; federal and state regulations concerning animal diseases, procedures for applying or enforcing them, and legal aspects of the professional and business activities of a practicing veterinarian.

5454 Radiology (5) 200 contact hours. Applications of procedures, methods, and techniques in veterinary radiography and radiology.

5455 Laboratory, Zoo, Exotic, and Marine Animals (5) 200 contact hours. Laboratory, zoo, exotic, and marine animal care and management; disease-control procedures...
applied to various animal groups within the school, on the campus, and within the state studied and evaluated.

5456 Small Animal Medicine (S) 200 contact hours. Application of diagnostic, treatment, and control methods for small animal diseases; animal hospital and practice management procedures and methods.

5457 Small Animal Surgery (S) 200 contact hours. Application of surgical procedures and techniques in small animals; study of surgical cases presented to the small animal clinic.

5458 Equine Medicine and Surgery (S) 200 contact hours. Application of diagnostic, treatment, and control methods for equine diseases; application of surgical procedures, methods and techniques in horses; herd health management; includes studies of medical and surgical cases presented to the small animal clinic.

5459 Ruminant and Swine Medicine and Surgery (S) 200 contact hours. Application of diagnostic, treatment, and control methods for ruminant and swine diseases; application of surgical procedures, methods, and techniques in ruminants and swine; includes studies of medical and surgical cases presented to the large animal clinic.

5460 Preventive Medicine (S) 200 contact hours. Principles of epidemiology and ecology applied to health management programs; emphasis on food and fiber animal medicine.

5461 Elective (1-5) 40 to 200 contact hours. Students have the option of repeating part or all of one or more VMed 5451 through 5460 in which they have a special interest.

Department of Epidemiology and Community Health

HEAD: Hubbert, Professor
ASSOCIATE PROFESSORS: Bech-Nielsen, Hagstad, Hugh-Jones, Shane

Epidemiology and Community Health (ECH)

7301-7302 Principles of Methods of Epidemiology and Disease Control—I, II (4,4) Prereq: consent of instructor. ECH 7301 is a prerequisite for ECH 7302. 3 hrs. lecture; 3 hrs. lab. Use of ecologic and epidemiologic concepts in study of diseases in populations; introduction to epidemiologic methods with laboratory exercises emphasizing problem-solving; application of epidemiologic principles to disease control, planning, administration, and evaluation of disease-control programs.

7303 Applied Veterinary Preventive Medicine (S) Prereq: ECH 7301, 7302, and consent of instructor. 3 hrs. lecture; 6 hrs. lab. Application of principles of epidemiology and disease control to planning, administration, and evaluation of veterinary preventive medicine practice.

7304 Clinical Epidemiology in Companion Animal Practice (3) Prereq: consent of instructor. Application of epidemiologic principles and disease control methods in companion animal practice; problem-oriented case studies to emphasize relation of patient and client to community.

7305 Disease in Free-Living Terrestrial Populations (3) Prereq: consent of instructor. Ecology and epidemiology of infectious and noninfectious disease in wild populations of terrestrial vertebrates; application of epidemiologic principles to disease control in free-living populations.

7306 Veterinary Medicine and Community Health (3) 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.

Department of Veterinary Anatomy and Fine Structure

HEAD: Titkemeyer, Professor
PROFESSORS: Abdelbaki, Hillmann
ASSOCIATE PROFESSORS: Duffield, Myers
ASSISTANT PROFESSORS: Al-Bagdadi, Haldiman, Henry, Henk

OFFICE: 2510 Veterinary Medicine Building
Veterinary Anatomy (VAN)

7101 Advanced Veterinary Gross Anatomy (1-3) Prereq: consent of instructor. Students may take any or all of the following four areas of morphology: (a) neuroanatomy, (b) applied anatomy, (c) spanchnology, or (d) locomotor system.

7102 Advanced Microscopic Anatomy (1-3) Prereq: D.V.M. degree or sound background in histology. May be repeated for credit if different systems are selected. Comparative microscopic anatomy of organ systems of domestic animals.

7103 Advanced Developmental Anatomy (4) Prereq: Zool. 3156 or equivalent; and consent of instructor. 2 hrs. lecture; 4 hrs. lab. Organ system origin and development in selected domestic animals.

7104 Correlative Neuroanatomy (3) Prereq: graduate standing and consent of instructor. 2 hrs. lecture; 2 hrs. lab. Neuroanatomy of selected domestic and laboratory animals.

7105 Ultrastructural Cytology (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Fine structure of animal cells and cell products; possible relationships of ultrastructure to function; diverse interpretation of chemical-physical reaction.

Department of Veterinary Clinical Sciences

HEAD: Lingard, Professor
PROFESSORS: Archbald, Bivin, Carter, Dixon, Root
ASSOCIATE PROFESSORS: Haynes, Hoskins, Hulse, Luther, Watters
ASSISTANT PROFESSORS: Breitschwerdt, Hollett, Hribernik, Lindsay, J. J. McClure, J. R. McClure, McGrath, Nafe, Pavletic, Richardson, Shires, Stoloff, Turnwald
INSTRUCTORS: French, Gaunt

This department has responsibility for an instructional program in the diagnosis, treatment, and control of animal diseases. Faculty of this department contribute a major share of the instruction in Years III and IV.

Department of Veterinary Microbiology and Parasitology

HEAD: Dommert, Professor
PROFESSORS: Barta, Stewart, Swann
ASSOCIATE PROFESSORS: Amborski, Cox, Fulton, Issel, Klei, Malone

Veterinary Microbiology and Parasitology (VMP)

7410 Veterinary Virology (4) Prereq: introductory course in virology or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Molecular biology, fine structure, isolation, cultivation, identification, pathogenesis, and epidemiology of viruses of veterinary importance.

7412 Veterinary Immunobiology (4) Prereq: introductory course in immunology or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Immune and hypersensitivity reactions in animal body and in cell cultures.

7414 Veterinary Mycology (4) Prereq: consent of instructor. 2 hrs. lecture; 4 hrs. lab. Fungal agents causing cutaneous, subcutaneous, intermediate, and systemic mycoses of domestic animals.

7416 Veterinary Helminthology (4) Prereq: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Taxonomy, morphology, physiology, and the immunological, pathological, physiological, and ecological aspects of the host-parasite relationships of helminth parasites of animals.

7418 Veterinary Protozoology (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Taxonomy, morphology, physiology, and immunological, pathological, physiological, and ecological aspects of the host-parasite relationships of protozoan parasites of animals.

7420 Chemotherapy and Control of Animal Parasites (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Properties, administration, clinical effects, and government regulation pertaining to drugs, vaccines, and management procedures used for the control of protozoan, helminth, and arthropod parasites of animals.

7422 Pathogenic Veterinary Bacteriology (4) Prereq: introductory bacteriology and basic immunology. 3 hrs. lecture; 2 hrs. lab. Bacteria affecting animals and related host responses.

7424 Diseases of Marine and Aquatic Animals (3) Prereq: basic microbiology, parasitology, and pathology. 2 hrs. lecture; 2 hrs. lab. Biologic agents causing diseases in marine and aquatic animals; identification of infectious agents and pathogenesis of diseases.

7426 Antimicrobial and Chemotherapeutic Agents (3) Prereq: introductory microbiology and biochemistry. 2 hrs. lecture; 2 hrs. lab. Mechanism of action; structure/function of antimicrobial and chemotherapeutic agents.

7428 Veterinary Immunocytochemistry (4) Prereq: introductory course in immunology or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Immunocytochemical properties of products of immunologically competent cells, e.g., immunoglobulins, lymphokines, components of the complement system, conglutinin, etc.
Veterinary Pathology (VP)

The D.V.M. degree is a prerequisite for the following courses.

7501 Cellular Pathology (4) Prereq: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Basic mechanisms of disease; emphasis on light microscopy, histochemistry, and electron microscopy evaluations.

7502 Advanced Veterinary Pathology—I (5) Prereq: consent of instructor. 2 hrs. lecture; 6 hrs. lab. Study of digestive, integument, urinary, and hepatic mechanisms of disease using electron and light microscopy; pathogenesis of specific diseases stressed.

7503 Advanced Veterinary Pathology—II (5) Prereq: consent of instructor. 2 hrs. lecture; 6 hrs. lab. Study of diseases of the respiratory, musculoskeletal, nervous, lymphoreticular, and cardiovascular systems using electron and light microscopy; pathogenesis of specific diseases.

7504 Necropsy Techniques (1-4) Prereq: consent of instructor. Necropsy of animals submitted to the department; case work-up to include light microscopy of animal tissues, serum biochimic, and hematologic evaluations necessary for an accurate diagnosis; completion of gross and microscopic descriptions.

7505 Advanced Clinical Pathology (4) Prereq: consent of instructor. 2 hrs. lecture; 4 hrs. lab. Hematology, urinalysis, serum biochimic data, cytology; advanced evaluation of body fluids with emphasis on diagnosis; techniques of hematology, urinalysis, serum profile testing, exfoliative cytology, and genetic analysis.

7506 Diseases of Wildlife (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Study of infectious, metabolic, and toxic diseases and disease agents using microbiologic and histopathologic techniques; epidemiologic aspects of the various diseases of wild animals.

7507 Avian Histopathology (2) Prereq: consent of instructor. 1 hr. lecture; 2 hrs. lab. Histopathologic aspects of metabolic, toxic, and infectious diseases of avian species.

Department of Veterinary Physiology, Pharmacology, and Toxicology

HEAD: Morrissette, Professor
PROFESSORS: Crawford, Short
ASSOCIATE PROFESSORS: Beadle, Ingraham, Lee, Nicholson
ASSISTANT PROFESSORS: Flory, Kappel, Strain

Veterinary Physiology, Pharmacology, and Toxicology (VPT)

2001 Introduction to Pharmacology (3) Prereq: Chem. 1201 and 1202; and either Biol. 1001 or Zool. 1001. Basic concepts of pharmacology; absorption, distribution, mechanism of action, and excretion of drugs; classification of therapeutic compounds on their mechanism and sites of action in mammalian hosts; classical therapeutic applications.

7602 Veterinary Pharmacology and Toxicology—I (3) Prereq: invertebrate and vertebrate physiology and biochemistry or consent of instructor. Comparative medical study of pharmacology; emphasis on pharmacodynamic and toxicodynamic principles and therapeutic utility of major classes of drugs.

7603 Veterinary Pharmacology and Toxicology—II (3) Prereq: VPT 7602 and consent of instructor. Continuation of VPT 7602; emphasis on the mechanism of action of drugs and toxins in domesticated species; includes principles of therapeutic uses of drugs and treatment of toxicities.

7604 Advanced Pharmacology (3) Prereq: VPT 7602 and 7603; or consent of instructor. Principles governing the pharmacodynamics of drugs and other xenobiotic chemicals in the animal body; emphasis on the comparative aspects of actions and disposition of drugs and economic poisons.

7605 Circulatory Transport and Control (3) Prereq: Zool. 4160 or equivalent or consent of instructor. 3 hrs. lecture/demonstration. Biophysical approach to structure and function of the circulatory system in health and disease; includes fluid dynamics, solute transport, regional hemodynamics, neurohumoral controls, and analysis of circulatory function in specific cardiovascular disease conditions.

7606 Principles of Electrophysiology (3) Prereq: Math 1050; Zool. 1001 or equivalent; and consent of instructor. 2 hrs. lecture; 3 hrs. lab. Circuit analysis of electrical analogues of biological systems, linear cable properties of cylindrical and spherical cells, excitation and conduction in excitable cells; includes transport across excitable and natural membranes.

7607 Advanced Respiratory Physiology (3) Prereq: Zool. 4160 or equivalent or consent of instructor. 2 hrs.
DEPARTMENT OF VETERINARY SCIENCE

VETERINARY SCIENCE (VetS)

3001 Sanitation and First Aid (3) Anatomy and physiology; hygiene and sanitation, feeding, shelter, and other factors important in prevention and control of diseases and parasites of domestic animals.

3002 Practical Work with Livestock (1) 3 hrs. lab. Dehorning, castration, branding, methods of restraint, and methods for control of parasites.

4004 Poultry Sanitation, Diseases, and Parasites (3) 

SCHOOL OF VOCATIONAL EDUCATION

DIRECTOR: Curtis, Professor
ASSISTANT DIRECTOR: Smith, Associate Professor

Extension Education (ExEd)

3010 Internship in Cooperative Extension Service (6) Offered summer only. Open to selected students completing their junior year who are considering a career with the Cooperative Extension Service. Consists of a 7-week period of study, observation, and practicum in a parish Cooperative Extension Service Office plus a 2-week period of classes in the Department of Extension Education. Registration with special permission only. McFatter

4010 Cooperative Extension Work (3) Cooperative extension work; its history, objectives, organization, relationships, and teaching processes. Williams

4011 Communications in Extension Education (3) Synthesis and application of concepts and principles of communication in the extension educational program. McFatter
4025 Principles of Adult Education (3) Nature, scope, and importance of adult education; social and psychological factors affecting adult motivation and learning; methods and techniques for providing adult learning experiences.  

4030 Program Development (3) Synthesis and application of relevant concepts relating educational planning, planned change, and social change to development of effective extension education programs.  


4032 Leadership and Organization (3) Application of relevant concepts and principles from leadership theory, group dynamics, social organization, and organizational administration to problems of leading and organizing extension education programs.  

4036 Evaluation and Research Methods (3) Prereq: a basic graduate-level statistics course. Concepts and principles of evaluation and research applied to problems in extension education.  

Department of Industrial and Technical Education  

HEAD: McMurry, Professor  
ASSOCIATE PROFESSORS: Harrell, Kuetemeyer  
ASSISTANT PROFESSORS: Hannaman, Hoover, Trott, Wiggle, Younger  

Industrial Education (InEd)  

1001 Industrial Engines—Maintenance and Repair (3) 6 hrs. lab. Design, construction, operation, and maintenance procedures of industrial engines, including electrical, cooling, lubricating, and fuel systems.  

1010 General Woodworking (3) 6 hrs. lab. Use and care of hand tools and application of machines in manufacturing wood products; machine safety; nomenclature.  

1011 Materials and Methods of Residential and Light Commercial Construction (3) Prereq: InEd 1010. Also offered as Cons. 1011. 6 hrs. lab. Principles of building construction; implications of mass production; use and properties of new materials.  

1021 General Metals (3) 6 hrs. lab. Technical knowledge and skills required in the areas of sheet metal, metal spinning, founding, forging, heat treatment, bench metal, and machine tool work.  

2012 Woodworking Technology (3) 6 hrs. lab. Advanced machine tool operations, job procedures, design and finishing.  

2022 Advanced Metals (3) Prereq: InEd 1021. 6 hrs. lab. Founding, forging, heat treatment, and machine tool work.  

2023 Advanced Sheet-Metal Work (3) 6 hrs. lab. Pattern drafting and construction of fittings used in industrial sheet-metal work.  

2024 Welding Technology (3) Also offered as Cons. 2024. 6 hrs. lab. Application of arc and oxyacetylene processes including cutting and fusion, pressure, diffusion and brazing welding; welding technology related to metalurgy, symbols, joint design, hard surfacing, and testing and inspection.  

2030 General Electricity (3) 6 hrs. lab. Fundamental principles of electricity, including direct and alternating currents.  

2031 Basic Electronics (3) 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) 1 hr. lecture; 4 hrs. lab. Blueprint readings of the mechanical and building trades; freehand shop sketching and materials takeoff.  

2041 Industrial Crafts (3) 6 hrs. lab. Techniques of art metalwork, plastics, and leather-craft.  

2042 Industrial Arts for Elementary Teachers (3) 1 hr. lecture; 4 hrs. lab. Use and care of hand tools; knowledge of materials used in construction of craft projects in the elementary grades; emphasis on demonstration methods of teaching.  

2045 Fundamentals of Air Conditioning and Refrigeration (3) 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.
2051 Occupational Safety (3) Identification and appraisal of accident-producing conditions and practices; evaluation of accident problems in plant facilities, materials handling, machine safeguarding, hand tools, and occupational health.

2052 Introduction to Industrial Education (3) Purpose, objectives, and development of industrial education.

3043 Industrial Arts for Elementary Teachers (3) 1 hr. lecture; 4 hrs. lab. Organization and construction of handcrafts activity units and methods of correlating with subject matter of elementary grades.

3055 Occupational Analysis Techniques (3) Essential elements of an occupation or activity identified for purposes of job classification and instruction.

3056 Course Development (3) Preparation, use, and evaluation of course materials for class and laboratory purposes.

3057 Methods of Teaching Industrial Subjects (3) Application of recognized methods of teaching in the field of industrial education.

3058 Shop Organization and Management (3) Planning, organizing, and managing industrial arts laboratories.

3059 Occupational Guidance Principles (3) Occupational guidance as applied to the field of vocational education.

3060 Testing in Industrial Education (3) Preparation and use of tests as a means of evaluating students in industrial education.

3061 Industrial Supervisory Practice (3) The supervisor as a key person in the industrial organization; duties, responsibilities, and successful supervisory practices.

3062 Principles of Industrial Training (3) Functions of a training department, duties and responsibilities of a director, and teaching methods used to develop goals of teamwork and production in business and industry.

3063 Industrial Maintenance Practices (3) 2 hrs. lecture; 2 hrs. lab. Functions of maintenance departments or divisions; duties and responsibilities of maintenance supervisors aimed toward efficient production for industry.

3064 Industrial Safety Management (3) Prereq: InEd 2051 or consent of instructor. Management practices and principles applied to loss prevention and control; surveys of existing loss prevention programs, certification, professional ethics, and varied functions of the safety professional.

3069 Observation and Student Teaching (8) Prereq: senior standing and at least a 2.20 average. Open only to students preparing to teach industrial education.

3065 Occupational Safety and Health Standards, Codes, and Regulations (3) Safety and health standards, codes, and regulations applicable to employees in private and public institutions and industries under the Williams-Steiger Act of 1970.

4070 Teaching: Construction Industries (3) An activity-oriented, conceptually-based teacher education curriculum, incorporating methods and materials of The World of Construction as developed by the Industrial Arts Curriculum Project.

4080 Teaching: Manufacturing Industries (3) An activity-oriented, conceptually-based teacher education curriculum, incorporating methods and materials of The World of Manufacturing as developed by the Industrial Arts Curriculum Project.

4099 Advanced Problems in Industrial Education (1-3) May be repeated for credit for a maximum of 6 sem. hrs. Individual and group problems in the field of industrial education.

7060 History of Industrial Education (3)

7081 Principles of Vocational Trade and Industrial Education (3)

7082 Conference Methods (3)

7083 Programmed Instruction (3) Principles of programmed instruction; emphasis on methods and application of instruction and development of materials.

7084 Administration and Supervision of Industrial Education (3)

7085 School Plant Maintenance Management (3) For school administrators. Organization, planning, and operation of an efficient maintenance program for a school plant or plants.

7086 Curriculum Construction in Industrial Education (3)

7087 Survey Techniques in Industrial Education (3)

7088 Administration of Adult Vocational Education Programs (3) The role of adult education in vocational training; emphasis on determining needs, initiating, financing, and administering programs under state and federal legislation.

8000 Thesis Research (1-9 per sem.)

Vocational Trade and Industrial Education (VTIE)

Approved trade experience is prerequisite to registration for all courses in vocational trade and industrial education. The courses will be offered as demand justifies.

2070 Introduction to Vocational Trade and Industrial Education (3)

2071 Safety Practices and Industrial Hygiene (3)

2072 Principles of Teaching Vocational Trade and Industrial Education (3)

2073 Preparation of Instructional Materials (3)
**Department of Vocational Agricultural Education**

**Vocational Agricultural Education (VAEd)**

2070 Introduction to Agricultural Education (1) History, objectives, and organization of vocational agriculture in secondary schools.

3017 Methods of Teaching Vocational Agriculture (3) Fundamental principles underlying classroom instruction, management, and problems of teaching, with differentiation for vocational agriculture.

3018 The All-Day Class Program (3) Selection and organization of vocational agriculture teaching units; procedures in building the individual farm participation program.

3019 Out-of-School Youth and Adult Classes in Vocational Agriculture (2) Organization, subject matter, and methods in youth and adult classes in vocational agriculture.

3020 Observation and Apprentice Teaching (8) Prereq: senior standing and at least a 2.50 average. Open only to students preparing to teach vocational agriculture. Field fee. Each student is required to spend 9 full weeks in the field at an approved department of vocational agriculture in the state.

3095 Supervised Occupational Experience Programs (6) 2 hrs. lecture; 8 hrs. per week in an approved nonfarm agricultural business and/or high school vocational agriculture department for a minimum of 12 weeks. Open to juniors who are preparing to teach vocational agriculture in high school. Planning, implementing, and supervising occupational experience programs.

4016 Organization and Management of Agricultural Mechanics Programs (2) Prereq. (for vocational agricultural education majors): AgM 2059; nonmajors by consent of instructor. 4 hrs. lab. Teaching methods, planning, organizing, and managing the agricultural mechanics portion of the high school vocational agriculture program.

7000 Scientific Methods in Vocational Education (3) Overview of practical arts and vocational education in programs below the baccalaureate level; relationships of these programs to career education, general education, and society.

7006 Current Problems and Issues in Vocational Education (1-3) May be repeated for credit for a maximum of 6 sem. hrs. Current problems and issues affecting all aspects of vocational education; organizing instruction to meet vocational needs of individuals, including gifted and dis-
advantaged; class organization, program coordination, cooperative education, supervised work experiences, shop organization, scheduling, current research, state and national legislation, trends, and curriculum development.

7301 Orientation to the World of Work (3) See EDHD 7301.

7332 Educational and Occupational Information (3) Also offered as EDHD 7332. Sources, classification, and analysis of educational, occupational, and social information; occupational trends, local occupational surveys, and use of occupational information by teachers, guidance counselors, and others.

7334 Vocational Counseling (3) See EDHD 7334.

7392 Advanced Vocational Counseling (3) See EDHD 7392.

7398 Field Experiences in Vocational Counseling (3) See EDHD 7398.

7420 Supervision in Vocational Education (3) Principles and problems of supervision of vocational teaching at local and state levels; development of techniques for the improvement of instruction and the enhancement of qualities necessary for leadership in vocational education.

7500 Organization and Administration of Vocational Education (3) Theory and practices of organization, leadership, and administration for the development of skills needed for effective vocational education leadership.

7800 Curriculum Development in Vocational Education (3) Curriculum development processes in vocational education; emphasis on factors influencing curriculum development; purposes and trends in American education at different levels; curricular patterns in vocational education; problems of balance, scope, organizations, sequence, selection, and articulation.

7900 Practicum for the Vocational Educator (3-9) Designed to give the prospective vocational educator on-the-job experience under the guidance of successful practicing vocational educators in various educational settings; experiences to be supervised by School of Vocational Education personnel. Programs may include administration, supervision, coordination, curriculum, guidance, college teaching, or teaching in specialty area in secondary school or a vocational technical school.

Department of Vocational Home Economics Education

PROFESSOR: Leonard
ASSOCIATE PROFESSORS: Holt, Sylvest

Vocational Home Economics Education (VHEE)

2001 Introduction to Home Economics Education (3) 2 hrs. lecture; 2 hrs. lab. History, philosophy, and purposes of home economics education; formal and informal home economics programs explored through interviews, observations, and participation.

3001 Methods in Home Economics Education (3) 2 hrs. lecture; 2 one-hour labs on consecutive days. Open only to juniors and seniors majoring in vocational home economics education with an overall 2.20 gpa. Methods and organization of educational programs in home economics; emphasis on secondary-school programs in home economics.

3003 Student Teaching in Home Economics Education (8) Prereq: VHEE 3001 or 4004. Transfer students must have attended LSU one semester before enrolling. Transfer credit for student teaching is not accepted. 2.20 gpa required before registering. Participation in a secondary school program for 9 weeks in a selected home economics department.

4001 Curriculum and Evaluation in Home Economics (3) Prereq: VHEE 3001 or 4004. Curriculum development and evaluation processes in home economics education; construction and use of teaching-learning aids, media, home economics youth organizations, and purposes and techniques of evaluation.

4002 Adult and Occupational Education in Home Economics Programs (3) 2 hrs. lecture; 2 hrs. lab. Open to seniors in home economics education and experienced home economics teachers. Working with adults and youth in vocational, occupational, and other education programs.

8000 Thesis Research (1-9 per sem.)
WILDLIFE
(See School of Forestry and Wildlife Management, page 289.)

DEPARTMENT OF ZOOLOGY AND PHYSIOLOGY

CHAIRMAN: Corkum, Professor
PROFESSORS: Harman, Lee, Meier, Rossman, Werner, Woodring
ASSOCIATE PROFESSORS: Dietz, Fitzsimons, French, Stickle, Weidner
ASSISTANT PROFESSORS: Byrd, Caprio, Collins, Fleeger, Hafner, Homberger, Lance, Remsen
INSTRUCTOR: Doucette

Office: 202 Life Sciences Building

Undergraduate Concentration: Students choosing zoology as their field of concentration for the B.S. degree must complete a minimum of 30 semester hours in the department, including Zoology 1001, 1002, 2152, and 2153. Zoology 2154 is strongly recommended, as is the selection of one 4000-level course from each of the following areas: systematics-ecology, physiology, and microscopic morphology. Students must earn at least seven semester hours in a minimum of two 4000-level courses with accompanying laboratories. One year each of organic chemistry and basic physics with laboratory is required. Calculus is strongly recommended.

Marine Zoology: The department offers coursework in the field of marine zoology at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi, through a cooperative arrangement with that institution. The laboratory is in service throughout the year and is available for field trips by classes interested in marine zoology and individual research workers. Students wishing to take courses at the laboratory 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; Mathematics 1050; 3 sem. hrs. from Computer Science 1241, 1251, or Experimental Statistics 4001; 7 sem. hrs. from Botany 1002, 4052, or Geology 1001, 1005, 1601.

Museum of Zoology: The museum, which is part of the University’s Museum of Natural Science, is maintained for assembling and housing collections of animals to aid in the teaching of biological subjects and to provide the basis for an organized program of research by graduate students and faculty. These collections consist of a large and growing series of all vertebrate groups and some invertebrates. A special effort is made to accumulate material to permit comprehensive studies of zoogeography, speciation, taxonomy, and faunal relationships. Specimens are cataloged and systematically arranged. Qualified persons are permitted to study the collections.

Graduate Degrees: The department offers courses leading to the Master of Science degree with a major in zoology or physiology and to the Doctor of Philosophy degree with a major in zoology (concentration in general, invertebrate, or vertebrate) or physiology.

Graduate students who choose to minor in this department must obtain written consent from the chairman of the department.

Biology (Biol.)*

1001, 1002 General Biology (3,3) Biol. 1001 and 1003 may not be taken for credit by students who have had Zool. 1001 or 1002. Biol. 1002 and 1004 may not be taken for credit by students who have had Boty. 1001 or 1002. Students concentrating in zoology must take Zool. 1001 and 1002, not Biol. 1001, 1002, 1003, 1004. Basic principles of biology.

1003, 1004 General Biology Laboratory (1,1) Prereq: credit or registration in Biol. 1001, 1002. Students concentrating in zoology must take Zool. 1001 and 1002, not Biol. 1001, 1002, 1003, 1004. 2 hrs. lab. Lab to accompany Biol. 1001, 1002.

Zoology (Zool.)

1001 Introductory Zoology (4) 3 hrs. lecture; 3 hrs. lab. Credit will not be given for both this course and Biol. 1001 and 1003. Students concentrating in zoology must take Zool. 1001 and 1002, not Biol. 1001, 1002, 1003, 1004.

1002 Introductory Zoology (4) 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) Same as Zool. 1002, with special honors emphasis for qualified students.

2152 Comparative Anatomy of the Vertebrates (4) Prereq: 8 sem. hrs. of introductory zoology. 2 hrs. lecture; 6 hrs. lab. Homberger

2153 Principles of Genetics (3) Prereq: 6 sem. hrs. of
biology or consent of instructor. For students concentrating in biology, medicine, agriculture, liberal arts, or general education. Fundamental laws of heredity as applied to both plants and animals. French, Lee

2154 Principles of Genetics Laboratory (2) Prereq: credit or registration in Zool. 2153. 1 hr. lecture; 3 hrs. lab. Lab to accompany Zool. 2153. French, Lee

2157 Elementary Physiology (3) 2 hrs. lecture; 3 hrs. lab. Required of students majoring in home economics. May not be taken for credit by students who have had Zool. 2157; students concentrating in zoology, or pre-medical students. Dietz

2160 Human Physiology (3) May not be taken for credit by students who have had Zool. 2157; students concentrating in zoology, or pre-medical students. Elements of human physiology: controls and functions of the various organ systems. Dietz

3000 Cell Biology (3) Prereq: 12 sem. hrs. of zoology and one year of chemistry.

3156 Vertebrate Embryology (4) Prereq: 11 sem. hrs. of zoology; 3 hrs. lecture; 3 hrs. lab.

3950, 3951 Research for Honor Students in Zoology (2-4, 2-4) Prereq: 15 hrs. of zoology with a 3.00 average. 1 hr. conference; 3, 6, or 9 hrs. lab. May not be counted as a 3000-level course with laboratory.

4104 History (4) Prereq: 12 sem. hrs. of zoology or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Werner

4105 Parasitology (4) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab. Field service fee. Corkum

4121 Physiological Genetics (4) Prereq: Zool. 2153 and 2154; or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Laboratory based primarily on Drosophila and Neurospora. French

4140 Animal Evolution (3) Prereq: Zool. 2153. Principles and processes in evolution of species and higher categories; emphasis on vertebrates. Rossman

4141 Mammalogy (3) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 3 hrs. lab. Hafner

4142 Ornithology (3) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 3 hrs. lab. Field service fee. Renssen

4145 Ichthyology (3) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 3 hrs. lab. Field service fee. Biology of fishes; emphasis on evolution, classification, and ecology. Fitzsimons

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. Taxonomy and natural history of amphibians and reptiles. Rossman

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. Harman

4152 Protozoology (4) Prereq: 12 sem. hrs. of zoology or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Cytological, ecological, and physiological phenomena of the protozoa. Weidner

4153 Animal Ecology (3) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 3 hrs. lab. Field service fee. Environmental factors influencing distribution of animals. Fleeger

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. Harman

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. Woodring

4157 Cellular Physiology (4) Prereq: 12 sem. hrs. of zoology; and organic chemistry. 3 hrs. lecture; 3 hrs. lab. Physiological systems in cells and tissues. Dietz

4158 Endocrinology (3) Prereq: 12 sem. hrs. of zoology. Meier

4160 Mammalian Physiology (4) Prereq: 12 sem. hrs. of zoology; and organic chemistry. 3 hrs. lecture; 3 hrs. lab. Principles of mammalian systems physiology, with emphasis on the human.

4162 Marine Communities (4) Prereq: Zool. 4145 or 4154 or consent of instructor. 3 hrs. lecture; 3 hrs. lab and field work. Stickle

4190 History of Biology (2) See Entm. 4009.

4647 Marine Vertebrate Zoology (6) Prereq: 16 sem. hrs. of zoology including comparative anatomy. Offered summer only. Six weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi.

4673 Marine Invertebrate Zoology (6) Prereq: 16 sem. hrs. of zoology. Offered summer only. Six weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi. Biology of the marine representatives of all phyla from Protozoa through the protocorudates. Corkum

7105 Helminthology (4) Prereq: Zool. 4105 or 4154 or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Development and host/parasite relationship of representative parasitic worms. Corkum

7109 Advanced Ornithology (3) Prereq: Zool. 4142 or consent of instructor. Renssen

7118 Ethology (4) Prereq: consent of instructor. 2 hrs. lecture; 6 hrs. lab. and field work. Evolutionary basis of animal behavior. Fitzsimons

7120 Marine Ecology (3) Prereq: consent of instructor. 2 hrs. lecture; 3 hrs. lab. and field work. Also offered as MrSc 7317. Physical, chemical, and biological environ-
mental 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.  

7147 Selected Topics in General Zoology (3) Prereq: consent of instructor. May be taken twice for credit when topics differ. Detailed treatment of special areas of zoology; topics offered in successive semesters based on recent advances in the field, current needs of graduate students, and availability of appropriate faculty. 

7148 Selected Topics in Animal Ecology (3) Prereq: consent of instructor. May be taken twice for credit when topics differ. Detailed treatment of special areas of ecology; topics offered in successive semesters based on recent advances in the field, current needs of graduate students, and availability of appropriate faculty. 

7152 Advanced Vertebrate Anatomy (4) Prereq: Zool. 2152. 2 hrs. lecture; 6 hrs. lab. Hornberger 

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. Lee 

7154 Advanced Genetics Laboratory (3) Prereq: Zool. 2154 and consent of instructor. 1 hr. lecture; 6 hrs. lab. Experiments with Drosophila melanogaster to study genetic and cytological variations due to deficiencies, duplications, inversions, rings, translocations, transpositions, compound chromosomes, and Y derivatives; both 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. Lee 

7156 Experimental Embryology (4) Prereq: Zool. 2156 or equivalent. 3 hrs. lecture; 3 hrs. lab. Byrd 

7157 Selected Topics in General Physiology (3) Prereq: consent of instructor. May be taken twice for credit when topics differ. Detailed treatment of special areas of physiology; topics offered in successive semesters based on recent advances in the field, current needs of graduate students, and availability of appropriate faculty. 

7158 Selected Topics in Comparative Physiology (3) Prereq: consent of instructor. May be taken twice for credit when topics differ. Detailed treatment of special areas of physiology; topics offered in successive semesters based on recent advances in the field, current needs of graduate students, and availability of appropriate faculty. 

7160 Histochemistry and Cytochemistry (4) Prereq: 3 sem. hrs. of biochemistry or consent of instructor. 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. Meier 

7177 Neurosensory Physiology (4) Prereq: Zool. 4155 or 4157 or 4160. 2 hrs. lecture; 6 hrs. lab. Physiology of nerve and sensory receptors; emphasis on vertebrate systems and independent laboratory investigation. Caprio 

7648 Museum Field Expedition (6) Prereq: consent of instructor. One semester in the field under direction of the Museum of Zoology staff. Fitzsimons, Rossman 

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 nonbiological materials; theory, operation, and application of the instruments. 

7702 Transmission Electron Microscopy Laboratory: Biological Materials (3) Prereq: credit or registration in Zool. 7701 or consent of instructor. 9 hrs. lab. Same as Boty. 7702, Mbio. 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 Zool. 7701 or consent of instructor. 6 hrs. lab. Same as Boty. 7703, 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, 7925 Seminar in Invertebrate Zoology (1,1) Each course may be repeated for credit. 

7926 Seminar in Zoology Zoology (1) May be repeated for credit. 

7928, 7929 Seminar in Embryology and Developmental Biology (1,1) Each course 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, 7943 Seminar in Morphology (1,1) Each course may be repeated for credit. 

7944, 7945 Seminar in Cell Biology (1,1) Each course may be repeated for credit. 

8000 Thesis Research (1-9 per sem.) 

8900 Research (2-8) Prereq: consent of instructor. 1 hr. conference; 3 hrs. lab. per sem. hour. May be repeated for credit for a maximum of 8 sem. hrs. 

9000 Dissertation Research (1-9 per sem.)
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1986

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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 July.
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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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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

*Section 1-2.2.a., Bylaws and Regulations of the Board of Supervisors.
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*This listing was up-to-date and as nearly correct as possible at the time of publication of this catalog.
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NICHOLAS CANADAY, JR., Professor of English. Ph.D., University of Florida.

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JAMES D. CARTER, Professor of Veterinary Ophthalmology; Veterinary Ophthalmologist (Department of Veterinary Clinical Sciences). D.V.M., University of Missouri; Diplomate, American College of Veterinary Ophthalmology.

JANE R. CARTER, Associate Professor of Library Science; Dean, Graduate School of Library Science. Ph.D., University of Maryland.

FRANK K. CARTLEDGE, Associate Professor of Chemistry. Ph.D., Iowa State University.

DALE R. CARVER, Professor of Civil Engineering. Ph.D., University of Illinois.

BURTIS G. CASLER, Associate Professor of Mathematics. Ph.D., University of Wisconsin—Madison.

TOM R. CAVANAUGH, Professor of Art. M.F.A., University of Illinois.

ROBERT H. CHABRECK, Professor of Forestry and Wildlife Management. Ph.D., LSU.

BARBARA C. CHAMBERS, Assistant Professor of Social Welfare. M.S.W., LSU.

DOYLE CHAMBERS, Professor of Animal Science; Vice-Chancellor for Research and Director, Agricultural Experiment Station (Center for Agricultural Sciences and Rural Development). Ph.D., Oklahoma State University.

JIMMY L. CHAMBERS, Assistant Professor of Forestry and Wildlife Management. Ph.D., University of Missouri.

LAI-HIM CHAN, Associate Professor of Physics and Astronomy. Ph.D., Harvard University.

JOHN E. CHANDLER, Assistant Professor of Dairy Science. Ph.D., Virginia Polytechnic Institute.

SIMON H. CHANG, Associate Professor of Biochemistry. Ph.D., Oklahoma State University.

GANESAR CHANMUGAM, Associate Professor of Physics and Astronomy. Ph.D., Brandeis University.

JOAN B. CHAPIN, Associate Professor of Entomology. Ph.D., LSU.

RUSSELL L. CHAPMAN, Associate Professor of Botany; Associate Dean, College of Arts and Sciences. Ph.D., University of California at Davis.

ROLAND E. CHARDON, Associate Professor of Geography and Anthropology. Ph.D., University of Minnesota.

EARL H. CHEEK, JR., Associate Professor of Education (Department of Curriculum and Instruction). Ph.D., Florida State University.

MARThA C. CHEEK, Assistant Professor of Education (Department of Curriculum and Instruction). Ph.D., Florida State University.

NENG HSIN CHEN, Instructor in Mathematics. M.S., National Taiwan University.

REX L. CHEN, Assistant Professor in Office of Sea Grant Development. Ph.D., University of Wisconsin—Madison.

DONALD M. CHIARULLI, Instructor in Computer Science. M.S., Virginia Polytechnic Institute.

DOO YOUNG CHU, Associate Professor of Veterinary Pathology. D.V.M., Seoul National University (Korea); Ph.D., Kansas State University.

JACK C. CHO, Associate Professor of Electrical Engineering. Ph.D., Iowa State University.

JAMES F. CHOLATE, JR., Instructor in Education (University Lab School). Ph.D., LSU.

ELVIN T. CHOONG, Professor of Forestry and Wildlife Management. Ph.D., Syracuse University.

EDWIN R. CHUBBUCK, Professor of Civil Engineering. Ph.D., Iowa State University.

ROBERT E. CHUMBLEY, III, Associate Professor of Foreign Languages. Ph.D., Yale University.

WOO-SIK CHUNG, Assistant Professor of Social Welfare. M.S.W., St. Louis University.

GABIE E. CHURCH, Instructor in Experimental Statistics. M.A., Stat., LSU.

ALMA BETH CLARK, Professor of Home Economics. Ph.D., Cornell University.

CHRISTOPHER A. CLARK, Assistant Professor of Plant Pathology and Crop Physiology. Ph.D., Cornell University.

STEPHEN J. CLARKE, Assistant Professor of Sugar Science (Audubon Sugar Institute). Ph.D., University of London.

WILLIAM M. CLARKE, Associate Professor of Foreign Languages. Ph.D., University of North Carolina at Chapel Hill.

RONALD E. CLARY, Assistant Professor of Aerospace Studies. M.A., Central Michigan University.

EVERETT E. CLINE, Assistant Professor of Music. M.A., University of Missouri at Kansas City.

DAN F. CLOWER, Professor of Entomology. Ph.D., Cornell University.

DIANNE E. CMICHEL, Assistant Professor of Health, Physical, and Recreation Education. Ph.D., Ohio State University.

BILLY J. COCHRAN, Professor of Agricultural Engineering. Ph.D., Oklahoma State University.

FRANCES L. COGLE, Assistant Professor of Home Economics. Ph.D., Florida State University.
SIDNEY L. COHEN, Associate Professor of History. Ph.D., Yale University.

MARC A. COHN, Assistant Professor of Plant Pathology and Crop Physiology. Ph.D., Cornell University.

CHARLES R. COLBERT, Professor of Architecture. M.S. Arch., Columbia University.

JAMES M. COLEMAN, Professor of Marine Sciences; Director, Coastal Studies Institute. Ph.D., LSU.

HERON S. COLLINS, Professor of Mathematics. Ph.D., Tulane University.

RICHARD L. COLLINS, Assistant Professor of Zoology and Physiology. Ph.D., University of California at Berkeley.

ANTHONY W. CONFER, Associate Professor of Veterinary Pathology. D.V.M., Oklahoma State University; Ph.D., University of Missouri; Diplomate, American College of Veterinary Pathology.

JOHN V. CONNER, Assistant Professor of Forestry and Wildlife Management. Ph.D., Tulane University.


JEANETTE M. CONNERS, Instructor in Mathematics. M.A., University of Missouri—Columbia.

RICHARD W. CONNERS, Assistant Professor of Electrical Engineering. Ph.D., University of Missouri—Columbia.

MAX Z. CONRAD, Professor of Landscape Architecture. M.L.A., Harvard University.

ROYSELL J. CONSTANTIN, Professor of Horticulture. Ph.D., LSU.

C. DINOS CONSTANTINIDES, Professor of Music. Ph.D., Michigan State University.

ROBERT W. COOK, Professor of Military Science; Assistant Commandant of Cadets. M.S., Shippensburg State College.

RUAL L. COOK, Associate Professor of Social Welfare. M.S.W., LSU.

HELEN M. COOKSTON, Professor of Education (Department of Curriculum and Instruction); Director, Teaching Training, Ed.D., University of Alabama.

ROBERT C. COON, Associate Professor of Psychology. Ph.D., Vanderbilt University.

STEPHEN L. COOPER, Assistant Professor of Speech. Ph.D., LSU.

WILLIAM J. COOPER, JR., Professor of History. Ph.D., Johns Hopkins University.

DAVID M. CORDELL, Instructor in Finance. M.B.A., University of Texas at Austin.

CRAIG M. CORDES, Associate Professor of Mathematics; Vice-Chairman for Instruction, Department of Mathematics. Ph.D., University of Maryland.

JAMES B. CORDNER, Professor of Chemical Engineering. Ph.D., University of Washington.

CAROLYN G. CORKUM, Associate Professor of Medical Technology. M.S., University of Alabama.

KENNETH C. CORKUM, Professor of Zoology and Physiology; Chairman, Department of Zoology and Physiology. Ph.D., LSU.

ARMANDO B. CORRIPIO, Associate Professor of Chemical Engineering. Ph.D., LSU.

FLOYD L. CORTY, Professor of Agricultural Economics and Agribusiness. Ph.D., Cornell University.

MARY M. COTTRELL, Assistant Professor of Speech. Ph.D., University of Utah.

ROBERT W. COURTER, Associate Professor of Mechanical Engineering; Assistant to the Dean, College of Engineering. Ph.D., University of Texas at Austin.

JOHN C. COURTNEY, Associate Professor of Nuclear Engineering (Nuclear Science Center). D.Engr., Catholic University of America.

BEVERLY J. COVINGTON, Alumni Professor of Civil Engineering; Chairman, Department of Construction. Ph.D., Northwestern University (III.).

J. BAINARD COWAN, Assistant Professor of English. Ph.D., Yale University.

CAROLE A. COX, Assistant Professor of Education (Department of Curriculum and Instruction). Ph.D., University of Minnesota.

HOLLIS U. COX, Associate Professor of Veterinary Bacteriology (Department of Veterinary Microbiology and Parasitology). D.V.M., Oklahoma State University; Ph.D., LSU; Diplomate, American College of Veterinary Microbiologists.

RICHARD W. COX, Associate Professor of Art. Ph.D., University of Wisconsin—Madison.

CECIL V. CRABB, JR., Professor of Political Science; Chairman, Department of Political Science. Ph.D., Johns Hopkins University.

EMMA JO CRAIN, Assistant Professor of Education (Department of Human Development); Coordinator of Field Experiences, College of Education. Ph.D., University of Alabama.

CARL N. CRANE, Assistant Professor of Social Welfare. M.S.W., LSU.

DAVID T. CRARY, Professor of Finance; Chairman, Department of Finance. Ph.D., Ohio State University.

M. PATRICK CRAWFORD, Professor of Veterinary Physiology and Biochemistry; Veterinary Medical Engineer (Department of Veterinary Physiology, Pharmacology, and Toxicology). D.V.M., Iowa State University; Ph.D., University of Mississippi.

MICHAEL L. CRESPO, Associate Professor of Art. M.F.A., City University of New York (Queens College).

BRENDA B. CRITTENDEN, Instructor in Accounting. M.B.A., Auburn University.

CORNELIUS A. CRONIN, Instructor in English. M.A., Emory University.

GARY A. CRUMP, Associate Professor of History. Ph.D., University of Illinois.

REBECCA W. CRUMP, Associate Professor of English. Ph.D., University of Texas at Austin.

DAVID H. CULBERT, Associate Professor of History. Ph.D., Northwestern University (III.).

W. PATTON CULBERTSON, JR., Associate Professor of Economics. Ph.D., University of Texas at Austin.

DUDLEY D. CULLEY, JR., Professor of Forestry and Wildlife Management. Ph.D., Mississippi State University.

VIC A. CUNDY, Assistant Professor of Mechanical Engineering. Ph.D., University of Wyoming.

ORVILLE R. CUNNINGHAM, Assistant Professor of Sociology; Assistant Professor of Rural Sociology. Ph.D., Virginia Polytechnic Institute.

CHARLIE M. CURTIS, Professor of Vocational Agricultural Education; Associate Dean, College of Agriculture; Director, School of Vocational Education; Head, Department of Vocational Agricultural Education. Ph.D., LSU.

DOUGLAS W. CURTIS, Associate Professor of Mathematics. Ph.D., Iowa State University.

NORMA S. CUTTER, Assistant Professor of Music. M.M., LSU.

VERNON E. DAILE, Associate Professor of Education; Assistant Principal, University Lab School. Ed.D., LSU.

HERMAN E. DALY, Professor of Economics. Ph.D., Vanderbilt University.
WILLIAM H. DALY, Professor of Chemistry. Ph.D., Polytechnic Institute of Brooklyn.

KENNETH E. DAMANN, JR., Associate Professor of Plant Pathology and Crop Physiology. Ph.D., Michigan State University.

JEAN G. DAMPIER, Instructor in Education (University Lab School). M.A., LSU.

LAWRENCE R. DANIEL, Jr., Professor of Mechanical Engineering. Ph.D., Michigan State University.


ELVIN J. DANTIN, Professor of Civil Engineering; Director, Louisiana Water Resources Research Institute. Ph.D., Stanford University.

OLIN K. DART, Jr., Professor of Civil Engineering. Ph.D., Texas A&M University.

BARRY M. DASTE, Associate Professor of Social Welfare; Coordinator of Internships. M.S.W., LSU.

MICHAEL F. DAUGHERTY, Associate Professor of Art. M.F.A., University of Tennessee.

JERRY F. DAVIDSON, Assistant Professor of Music. M.S.M., Union Theological Seminary.

JOHN L. DAVIDSON, Alumni Professor of Finance. M.B.A., LSU; J.D., University of North Carolina at Chapel Hill.

WILLIAM V. DAVIDSON, Associate Professor of Geography and Anthropology. Ph.D., University of Wisconsin—Milwaukee.

DONALD F. DAVIS, Instructor in Education (University Lab School). M.Ed., Southern University.

DOROTHY S. DAVIS, Instructor in Mathematics. M.S., LSU.

SUSAN H. DAWSON, Professor of Social Welfare. M.A., University of Chicago.

DONAL F. DAY, Assistant Professor of Sugar Science (Audubon Sugar Institute). Ph.D., McGill University (Canada).

JOHN W. DAY, Jr., Associate Professor of Marine Sciences; Associate Professor in Office of Sea Grant Development. Ph.D., University of North Carolina at Chapel Hill.

M. CLYDE DAY, Jr., Professor of Chemistry. Ph.D., Iowa State University.

FREDERICK A. de ARMAS, Professor of Foreign Languages: Acting Chairman, Department of Foreign Languages. Ph.D., University of North Carolina at Chapel Hill.

FRANCIS A. de CARO, Associate Professor of English. Ph.D., Indiana University.

CARMEN M. del RIO, Assistant Professor of Foreign Languages. M.A., University of Texas at Austin.

DAN R. DENSON, Assistant Professor of Health, Physical, and Recreation Education. Ed.D., University of Tennessee.

KENNETH S. DERRICK, Associate Professor of Plant Pathology and Crop Physiology. Ph.D., Texas A&M University.

FORREST A. DESERAN, Assistant Professor of Sociology. Ph.D., Colorado State University.

M. THOMAS DETRIE, Assistant Professor of Art. M.F.A., Louisiana Tech University.

WALTER A. DEUTSCH, Assistant Professor of Biochemistry. Ph.D., Texas A&M University.

STEPHEN P. DEVERE, Assistant Professor of Marketing. Ph.D., University of Nebraska.


ROBERT J. DEVVIN, Associate Professor of Education (Department of Human Development). Ph.D., Pennsylvania State University.

LOURDES L. DEYA, Instructor in Education (Department of Administrative and Foundational Services); Instructor in Library Science. M.S., LSU.

JULES A. d’HEMECOURT, IV, Assistant Professor of Journalism. J.D., LSU; M.S., Columbia University.

MARY A. DICKEY, Instructor in Botany. M.A.C.T., University of Tennessee.

ROWENA R. DICKEY, Associate Professor of Music. M.M., Eastman School of Music (University of Rochester).

JOEL K. DIETRICH, Assistant Professor of Architecture. M.Arch., University of Wisconsin—Milwaukee.

THOMAS H. DIETZ, Associate Professor of Zoology and Physiology. Ph.D., Oregon State University.

IRENE S. DI MAIO, Instructor in Foreign Languages. Ph.D., LSU.

THOMAS J. DI NAPOLI, Assistant Professor of Foreign Languages. Ph.D., University of Texas at Austin.

WILLIAM S. DI PIERO, Assistant Professor of English. M.A., San Francisco State College.

PAUL D. DIRKSMEYER, Professor of Music. M.A., University of Missouri—Columbia.

R. PRAKASH DIXIT, Assistant Professor of Speech. Ph.D., University of Texas at Austin.

JOE M. DIXON, Professor of Veterinary Science; Professor of Veterinary Clinical Medicine; Veterinary Clinician. D.V.M., Oklahoma State University.

A. ROLAND DOMMERT, Professor of Veterinary Microbiology; Head, Department of Veterinary Microbiology and Parasitology; D.V.M., Texas A&M University; Ph.D., LSU; Diplomate, American College of Veterinary Microbiologists.

JAMES R. DORROH, Professor of Mathematics. Ph.D., University of Texas at Austin.

GRESDNA A. DOTY, Professor of Speech. Ph.D., Indiana University.

ALBERT J. DOUCETTE, Jr., Instructor in Zoology and Physiology. M.S., LSU.

ELIZABETH C. DOUGHERTY, Instructor in Mathematics; Coordinator, Academic Skills Enhancement Program; Mathematics. M.A., LSU.

CONNIE W. DOUGLAS, Instructor in English. M.A., University of New Orleans.

JERRY P. DRAAYER, Associate Professor of Physics and Astronomy. Ph.D., Iowa State University.

PEGGY S. DRAUGHN, Assistant Professor of Home Economics. Ph.D., Florida State University.

RALPH M. DREGER, Professor of Psychology. Ph.D., University of Southern California.

JOHN S. DRILLING, Associate Professor of Physics and Astronomy. Ph.D., Case Western Reserve University.

DENNIS W. DUFFIELD, Associate Professor of Veterinary Anatomy and Fine Structure. D.V.M., University of Illinois; Ph.D., University of Missouri.

PAUL DUFOUR, Professor of Art. B.F.A., Yale University.

DAVID L. DUHON, Instructor in Management. M.B.A., LSU.

SYBIL J. DUNBAR, Instructor in English. M.A., LSU.

EDWARD P. DUNIGAN, Professor of Agronomy. Ph.D., University of Arizona.

THOMAS J. DURANT, Jr., Associate Professor of Sociology. Ph.D., University of Wisconsin—Madison.

JACKOLYN W. DURRETT, Assistant Professor of Social Welfare. M.S.W., LSU.

DANIEL W. EARLE, Jr., Professor of Landscape Architecture. Ph.D., LSU.
ROBERT J. EDLING, Associate Professor of Agricultural Engineering. Ph.D., University of Kentucky.


JOHN F. EDMUNDS, Associate Professor of Music. M.M.Ed., Florida State University.

DAN W. EDWARDS, Associate Professor of Social Welfare. Ph.D., Florida State University.

JAY D. EDWARDS, Assistant Professor of Geography and Anthropology. Ph.D., Tulane University.

LAWRENCE A. EDWARDS, Associate Professor of Social Welfare. M.S.W., University of North Carolina at Chapel Hill.

J. NORMAN EFFEISON, Professor of Agricultural Economics and Agribusiness. Chancellor, Center for Agricultural Sciences and Rural Development. Ph.D., Cornell University.

NORMAN C. ELFER, Assistant Professor of Mechanical Engineering. Ph.D., University of Southern California.


ANDREW S. ENDAL, Assistant Professor of Physics and Astronomy. Ph.D., University of Florida.

FRED R. ENDSLEY, Associate Professor of Marketing. Ph.D., LSU.

CAROL L. ENGBRETSON, Professor of Home Economics. Ph.D., Michigan State University.

FREDERICK M. ENRIGHT, Associate Professor of Veterinary Pathology. Associate Professor of Veterinary Science. D.V.M., Oklahoma State University. Ph.D., University of California at Davis.

BARBARA H. ESTERMANN, Instructor in English. M.A., Arizona State University.

CECIL L. EUBANKS, Associate Professor of Political Science. Ph.D., University of Michigan.

EDWIN M. EVANS, Instructor in Education (University Lab School). M.S., LSU.

WILLIAM W. EVANS, JR., Associate Professor of English. Ph.D., University of Florida.

WARREN O. EYSTER, Assistant Professor of English. M.A., Longwood College.

RAYMOND C. FABEC, Assistant Professor of Mathematics. Ph.D., University of Colorado.

ALVIN J. FABRE, JR., Instructor in Education (University Lab School). Ph.D., LSU.

JANE E. FAILE, Instructor in English. M.A., University of South Carolina.

ANWAR FAILY, Assistant Professor of Education (Department of Administrative and Foundational Services). Ph.D., University of Mississippi.

KENNETH S. FALK, Associate Professor of Foreign Languages. Ph.D., Harvard University.

WILLIAM W. FALK, Associate Professor of Sociology. Associate Professor of Rural Sociology. Ph.D., Texas A&M University.

LAWRENCE FALKOWSKI, Assistant Professor of Political Science. Ph.D., Rutgers University.

HELEN E. FANT, Professor of Health, Physical, and Recreation Education. Ph.D., LSU.

STEPHEN C. FABER, Associate Professor of Economics. Ph.D., Vanderbilt University.

RICHARD C. FARMER, Professor of Chemical Engineering. Ph.D., Georgia Institute of Technology.

STEPHEN A. FARMER, Assistant Professor of History. Ph.D., Stanford University.

A. JAMES FARR, Associate Professor of Poultry Science. Ph.D., Mississippi State University.

BARTON R. FARTHING, Professor of Experimental Statistics. Ph.D., North Carolina State University at Raleigh.

MARIAN F. FATOUT, Associate Professor of Social Welfare. D.S.W., University of Southern California.

SAM E. FEAGLEY, Assistant Professor of Agronomy. Ph.D., University of Missouri.

JAMES S. FEATHERSTON, Associate Professor of Journalism. M.S., East Texas State University.

ROBERT S. FELTON, Professor of Finance. D.B.A., Indiana University.

GEORGE R. FERGUSON, III, Associate Professor of Civil Engineering. Director of Placement, College of Engineering. M.S., LSU.

RAY E. FERRELL, JR., Professor of Geology; Chairman, Department of Geology. Director, School of Geoscience. Ph.D., University of Illinois.

LONNIE L. FIELDER, JR., Professor of Agricultural Economics and Agribusiness. Ph.D., Iowa State University.

KENT T. FIELDS, Assistant Professor of Accounting. Ph.D., Texas A&M University.

THOMAS A. FIELDS, Assistant Professor of Speech. Ph.D., University of Texas at Austin.

JOSEPH W. FIGG, JR., Assistant Professor of Music. M.S., University of Illinois.

JOHN M. FINLAY, Instructor in English. M.A., University of Alabama.

JAMES W. FIRNBERG, Professor of Education (Department of Administrative and Foundational Services). Coordinator, Office of Institutional Research (LSU System). Ed.D., LSU.

JOHN I. FISCHER, Associate Professor of English. Ph.D., University of Florida.

NIKOLAUS H. FISCHER, Professor of Chemistry. D.Nat.Sci., University of Tübingen (West Germany).

JON E. FISHER, Instructor in Journalism; Manager, Student Media Services. M.A.J., LSU.

J. MICHAEL FITZSIMONS, Associate Professor of Zoology and Physiology; Associate Curator, Museum of Zoology. Ph.D., University of Michigan.

ROBERT A. FLAMMANG, Professor of Economics. Ph.D., University of Iowa.

JOHN W. FLEEGER, Assistant Professor of Zoology and Physiology. Ph.D., University of South Carolina.

SUZANNE D. FLEMING, Assistant Professor of Criminal Justice. Ph.D., University of Pennsylvania.

F. MARION FLETCHER, Professor of Management. Ph.D., University of Pennsylvania.

BRUCE FLINT, Professor of Extension Education. Ph.D., University of Wisconsin—Madison.

WAYNE FLORY, Assistant Professor of Veterinary Physiology, Pharmacology, and Toxicology; Assistant Professor of Veterinary Science. Ph.D., University of Texas at Austin.

DANIEL M. FOGEL, Assistant Professor of English. Ph.D., Cornell University.

PETER J. FOOG, Professor of Forestry and Wildlife Management. Ph.D., LSU.

JAMES F. FONTENOT, Professor of Horticulture. Ph.D., University of Missouri.

THEODORE B. FORD, Professor of Marine Sciences; Associate Director, Office of Sea Grant Development. Ph.D., University of Illinois.

GEORGE D. FOSS, JR., Professor of Music. M.A., American University.
GARY O. FOWLER, Instructor in Mathematics. Ph.D., University of Oregon.

JANET F. FOWLER, Assistant Professor of Quantitative Methods. Ph.D., University of Oregon.

JAMES N. FOX, Associate Professor of Education; Principal, University Lab School. Ed.D., University of Florida.

DONALD E. FRANKE, Professor of Animal Science. Ph.D., Texas A&M University.

DENNIS D. FRENCH, Instructor in Veterinary Clinical Medicine; Veterinary Clinician. D.V.M., University of Minnesota.

WILBUR L. FRENCH, Associate Professor of Zoology and Physiology. Ph.D., University of Illinois.

MICHAEL Y. FRENLACH, Assistant Professor of Chemical Engineering. Ph.D., Hebrew University (Israel).

DUDLEY B. ERICKE, Associate Professor of Agricultural Economics and Agribusiness; Executive Assistant to the President (LSU System). M.S., LSU.

J. B. FYRE, JR., Professor of Dairy Science; Head, Department of Dairy Science. Ph.D., Iowa State University.

CHARLES F. FRYLING, JR., Associate Professor of Landscape Architecture. M.L.A., Harvard University.

ROBERT W. FULTON, Associate Professor of Veterinary Virology (Department of Veterinary Microbiology and Parasitology and Department of Veterinary Science). D.V.M., Oklahoma State University; Ph.D., University of Missouri; Diplomate, American College of Veterinary Microbiologists.

GERALD P. FURR, Instructor in Education (University Lab School). M.A., University of Northern Colorado.

JAMES R. FUXA, Assistant Professor of Entomology. Ph.D., North Carolina State University.

RICHARD P. GAGE, Instructor in English. M.A., Queens College.

DIETER A. GALLER, Professor of Foreign Languages. Ph.D., University of Münster (West Germany).

DAVID M. GALTTON, Assistant Professor of Dairy Science. Ph.D., Ohio State University.

ROBERT P. GAMBRELL, Associate Professor of Marine Sciences; Associate Professor in Office of Sea Grant Development; Associate Professor in Laboratory for Wetland Soils and Sediments. Ph.D., North Carolina State University at Raleigh.

RICHARD D. GANDOUR, Assistant Professor of Chemistry. Ph.D., Rice University.

MARY S. GARAY, Instructor in English. M.A., Texas Christian University.


WALTER L. GARNER, JR., Instructor in Education (University Lab School). M.Ed., LSU.

HARRY L. GARNHAM, Associate Professor of Landscape Architecture. M.L.A., Harvard University.

PENNY C. GARNHAM, Assistant Professor of Architecture. M.L.A., Texas A&M University.

JACK W. GARON, Associate Professor of Education (University Lab School). Ed.D., LSU.

CHARLOTTE W. GARRETT, Instructor in English. M.A., LSU.

LYNN GARRETT, Assistant Professor of English; Assistant to the Chairman of Freshman English; Administrative Coordinator, Academic Skills Enhancement Program; English. M.A., Northeast Louisiana University.

SIDNEY R. GARRETT, Professor of Art. M.A., LSU.

GENE G. GARZA, Instructor in Mathematics. Ph.D., University of Georgia.

EDWARD W. GASSIE, Professor of Extension Education; Head, Department of Extension and International Education. Ph.D., LSU.

PATRICIA S. GAUNT, Instructor in Small Animal Medicine and Surgery (Department of Veterinary Clinical Sciences); Veterinary Clinician. D.V.M., LSU.

WAYNE M. GAUTHIER, Assistant Professor of Agricultural Economics and Agribusiness. Ph.D., Oklahoma State University.

JOHN E. GAY, Associate Professor of Health, Physical, and Recreation Education. Ed.D., West Virginia University.

BOBBY GERMANY, Assistant Professor of Education (University Lab School). M.Mus.Ed., LSU.

JAMES H. GHOSTON, Professor of Dairy Science. Ph.D., University of Missouri.

TERRY L. GIBSON, Assistant Professor of Social Welfare. M.S.W., Florida State University.

JACK G. GILBERT, Professor of English; Coordinator of Foreign Studies, Department of Extramural Teaching. Ph.D., University of Texas at Austin.

D. FRANK GILMAN, Associate Professor of Agronomy. Ph.D., Texas A&M University.

STUART I. GILMORE, Professor of Speech. Ph.D., University of Wisconsin.

G. STEVE GIPSON, Instructor in Civil Engineering. M.S., LSU.

VIRGINIA B. GLAD, Professor of Psychology. Ph.D., University of Chicago.

DANIEL A. GLASER, Assistant Professor of Social Welfare. M.S.W., Tulane University.

LESLIE L. GLASgow, Professor of Forestry and Wildlife Management; Assistant Director, School of Forestry and Wildlife Management. Ph.D., Texas A&M University.

EDMUND J. GLENNY, Associate Professor of Architecture. M.Arch., Yale University.

SHARON I. GOAD, Assistant Professor of Geography and Anthropology. Ph.D., University of Georgia.

ROBERT A. GODEKE, Associate Professor of Animal Science. Ph.D., University of Missouri.

LARON E. GOLDEN, Professor of Agronomy. Ph.D., LSU.

STEVEN P. GOLSEN, Assistant Professor of Office Administration; Chairman, Department of Office Administration. Ph.D., Arizona State University.

MARY L. GOOD, Boyd Professor, Division of Engineering Research. Ph.D., University of Arkansas.

ROY G. GOODRICH, Professor of Physics and Astronomy. Ph.D., University of California at Riverside.

VIJAYA K. A. GOPU, Assistant Professor of Civil Engineering. Ph.D., Colorado State University.

JAMES G. GOSSELINK, Professor of Marine Sciences; Chairman, Department of Marine Sciences. Ph.D., Rutgers University.

NATHAN W. GOTTFRIED, Professor of Psychology; Director, Developmental Psychology Center; Adjunct Professor of Pediatrics (LSU School of Medicine). Ph.D., Ohio State University.

RONALD H. GOUGH, Associate Professor of Dairy Science. Ph.D., LSU.

RICHARD A. GOYER, Associate Professor of Entomology. Ph.D., University of Wisconsin—Madison.

RICHARD A. GRAFF, Assistant Professor of Mathematics. Ph.D., Princeton University.

MARY A. GRANDEAN, Instructor in English. M.A., Bowling Green State University.

JERRY B. GRAVES, Professor of Entomology; Head, Department of Entomology. Ph.D., LSU.
EDMUND R. GRAY, Professor of Management; Chairman, Department of Management. Ph. D., University of California at Los Angeles.
PEARL A. GREEN, Assistant Professor of Sociology. Ph. D., Southern Illinois University at Carbondale.
J. BERTON GREMLION, Professor of Education (Department of Administrative and Foundational Services). Ph. D., LSU.
RAYMOND T. GRENCHEK, Associate Professor of Physics and Astronomy. Ph. D., Indiana University.
CHARLES E. GRENIER, Associate Professor of Social Welfare. Ph. D., LSU.
CLAUDE G. GRENIER, Professor of Physics and Astronomy. D. Sc., University of Paris, Sorbonne (France).
ERNEST L. GRIFFIN, Professor of Mathematics. Ph. D., University of Chicago.
MICHAEL D. GRIMES, Associate Professor of Sociology. Ph. D., University of Texas at Austin.
ROBERT M. GRODNER, Professor of Food Science. Ph. D., LSU.
PAUL E. GROSSER, Assistant Professor of Political Science. Ph. D., Pennsylvania State University.
PHILIP G. GROTH, Assistant Professor of Sociology. Ph. D., University of Wisconsin—Madison.
FRANK R. GROVES, JR., Professor of Chemical Engineering. Ph. D., University of Wisconsin—Madison.
FABIAN GUDAS, Professor of English. Ph. D., University of Chicago.
LEO J. GUEDEY, Associate Professor of Agricultural Economics and Agribusiness. Ph. D., Oregon State University.
JACK E. GUERRY, Professor of Music. Ph. D., Michigan State University.
MELODY M. GUICHET, Assistant Professor of Art. M.F.A., Temple University.
JANICE B. GUILLOY, Instructor in Education (University Lab School). Ed. S., LSU.
DEWEY J. GUILLOT, JR., Assistant Professor of Education (University Lab School). M.Ed., LSU.

DAVID F. HAAS, Assistant Professor of Sociology. Ph. D., University of Wisconsin—Madison.
MARK S. HAFNER, Assistant Professor of Zoology and Physiology. Curator of Mammals, Museum of Zoology. Ph. D., University of California at Berkeley.
HARRY V. HAGSTAD, Associate Professor of Epidemiology and Community Health. D. V. M., Cornell University; Diplomate, American College of Veterinary Preventive Medicine.
JOSEPH F. HAIR, JR., Associate Professor of Marketing; Chairman, Department of Marketing. Ph. D., University of Florida.
MARY L. HAIR, Assistant Professor of Education (University Lab School). Ph. D., LSU.
SARA H. HAIR, Assistant Professor of Education (University Lab School). M.A., Columbia University.
JERROLD T. HALDMAN, Assistant Professor of Veterinary Anatomy and Fine Structure. Ph. D., Kansas State University.
BRIAN J. HALES, Associate Professor of Chemistry. Ph. D., University of Minnesota.
CLARENCE E. HALL, Professor of Engineering Graphics (Department of Industrial Engineering). Ph. D., East Texas State University.
EVELYN G. HALL, Assistant Professor of Health, Physical, and Recreation Education. Ed. D., University of Virginia.

MILTON H. HALLMAN, Professor of Music. D.M., Florida State University.
LEE T. HAMILTON, Instructor in English. M.A., North Texas State University.
ROBERT B. HAMILTON, Associate Professor of Forestry and Wildlife Management. Ph. D., University of California at Berkeley.
WILLIAM O. HAMILTON, III, Professor of Physics and Astronomy. Ph. D., Stanford University.
ABNER M. HAMMOND, JR., Professor of Entomology. Ph. D., LSU.
DONALD W. HAMMONS, Assistant Professor of Education (Department of Curriculum and Instruction); Head, Department of Correspondence Study. Ed. D., LSU.
CYNTHIA M. HANCHEY, Instructor in Computer Science. M.B.A., LSU.
R. HOWARD HANCHEY, Professor of Horticulture; Dean, College of Agriculture. Ph. D., Ohio State University.
LYNN M. HANNAMAN, Assistant Professor of Industrial and Technical Education. Ed. D., University of Northern Colorado.
JEFFREY S. HANOR, Professor of Geology. Ph. D., Harvard University.
THOMAS HANSBROUGH, Professor of Forestry and Wildlife Management; Director, School of Forestry and Wildlife Management. Ph. D., LSU.
GARY L. HANSEN, Assistant Professor of Sociology. Ph. D., Iowa State University.
BILL J. HARBIN, Associate Professor of Speech. Ph. D., Indiana University.
ANN HARDING, Assistant Professor of Art. M.F.A., University of Cincinnati.
JAMES D. HARDY, JR., Professor of History. Ph. D., University of Pennsylvania.
THOMAS R. HARGER, Associate Professor of Plant Pathology and Crop Physiology. Ph. D., University of Kentucky.
CAROLYN H. HARGRAVE, Professor of Quantitative Methods. Ph. D., University of Texas at Austin.
IVAN L. HARLESS, III, Assistant Professor of Health, Physical, and Recreation Education; Swimming Pool Manager; Women’s Swim Coach. Ed. D., LSU.
CHARLES A. HARLOW, Professor of Electrical Engineering. Ph. D., University of Texas at Austin.
WALTER J. HARMAN, Professor of Zoology and Physiology. Ph. D., University of Illinois.
JON W. HARNED, Instructor in English. Ph. D., University of Virginia.
ALVIN C. HARPER, Professor of Agricultural Economics and Agribusiness; Vice-President for Administration and Facility Planning (LSU System). Ph. D., Purdue University.
LEONARD W. HARRELL, Associate Professor of Industrial and Technical Education. M.S., LSU.
HARVEY S. HARRIS, Professor of Art. M.F.A., Yale University.
JOHN R. HARRIS, Assistant Professor of Civil Engineering. M.S., Iowa State University.
MARY B. HARRIS, Instructor in Education (University Lab School). M.A., Middlebury College.
O. JEFF HARRIS, JR., Professor of Management. Ph. D., University of Texas at Austin.
DOUGLAS P. HARRISON, Professor of Chemical Engineering. Ph. D., University of Texas at Austin.
E. EARNEST HARRISON, Professor of Music. M.M., Eastman School of Music (University of Rochester).
MARY C. HARRISON, Associate Professor of Marketing. Ph.D., North Texas State University.

GEORGE F. HART, Professor of Geology. Ph.D., University of Sheffield (England).

LEWIS T. HART, Professor of Veterinary Science. Ph.D., LSU.

BART P. HARTMAN, Associate Professor of Accounting. D.B.A., University of Kentucky.

HELENE Q. HARTMANN, Assistant Professor of Social Welfare. M.S., Columbia University.

BOBBY G. HARVILLE, Associate Professor of Agronomy. Ph.D., University of Tennessee.

WILLIAM K. HATHAWAY, Assistant Professor of English. M.F.A., University of Iowa.

WALLACE N. HAUCK, Instructor in Laboratory Animal Medicine; Veterinary Clinician. D.V.M., Washington State University.

MARY G. HAUER, Associate Professor of Books and Libraries; Chairman, Department of Books and Libraries. Ph.D., LSU.

ROBERT M. HAUSEY, Assistant Professor of Art. M.F.A., University of Pennsylvania.

RICHARD W. HAYMAKER, Associate Professor of Physics and Astronomy. Ph.D., University of California at Berkeley.

JACK N. HAYNES, Associate Professor of Landscape Architecture; Assistant Dean, College of Design. M.L.A., University of Michigan.

PETER F. HAYNES, Associate Professor of Veterinary Surgery; Veterinary Surgeon; Chief, Large Animal Clinic (Department of Veterinary Clinical Sciences). D.V.M., Colorado State University; Diplomate, American College of Veterinary Surgeons.

MABEL A. HEALY, Instructor in Education (University Lab School). M.A., LSU.

ELSIE S. HEBERT, Associate Professor of Journalism; Director, Journalism Extension Service. Ph.D., University of Texas at Austin.

JOHN A. HEBERT, JR., Associate Professor of Poultry Science. Ph.D., LSU.

ROBERT W. HECK, Alumni Professor of Architecture; Acting Director, School of Architecture. M.S. Arch., Columbia University.

F. GLEN HEMBRY, Professor of Animal Science. Ph.D., University of Missouri.

EDWARD H. HENDERSON, Associate Professor of Philosophy; Chairman, Department of Philosophy. Ph.D., Tulane University.

JERRY W. HENDERSON, Instructor in English. M.A., University of Miami.

JOHN B. HENDERSON, Assistant Professor of History. Ph.D., University of California at Berkeley.

MERLIN T. HENDERSON, Alumni Professor of Agronomy. Ph.D., University of Minnesota.

WILLIAM G. HENK, Assistant Professor of Veterinary Anatomy and Fine Structure; Chief, Electron Microscopy Laboratory. Ph.D., University of Georgia.

NIKKI J. HENNEKE, Assistant Professor of Interior Design (School of Architecture). M.Arch., University of Oregon.


ROBERT W. HENRY, Assistant Professor of Veterinary Anatomy and Fine Structure. D.V.M., Ph.D., Ohio State University.

RONALD J. W. HENRY, Professor of Physics and Astronomy; Chairman, Department of Physics and Astronomy. Ph.D., Queens University of Belfast (Ireland).

JOHN N. HENSHAW, Assistant Professor of Agronomy. Ph.D., Texas A&M University.

CHRISTOPHER A. HENTZ, Assistant Professor of Art. M.F.A., Cranbrook Academy of Art; M.S., Indiana State University.

TEME P. HERNANDEZ, Professor of Horticulture. Ph.D., University of Wisconsin—Madison.

W. BRUCE HERRIN, Associate Professor of Social Welfare; Assistant Dean, School of Social Welfare. M.A., Indiana University.

C. WOODBRIDGE HICKCOX, Assistant Professor of Geology. Ph.D., Rice University.

RONALD G. HICKS, Professor of Journalism; Director, School of Journalism. Ph.D., LSU.

JOHN L. HILBURN, Professor of Electrical Engineering. Ph.D., Auburn University.

JOHN A. HILDEBRANT, Associate Professor of Mathematics; Vice-Chairman for Administration, Department of Mathematics. Ph.D., University of Tennessee.

GLADYS J. HILDRETH, Associate Professor of Home Economics. Ph.D., Michigan State University.

CARL A. HILL, Associate Professor of Health, Physical, and Recreation Education. Ed.D., University of Arkansas.

JOHN M. HILL, Assistant Professor of Environmental Engineering (Division of Engineering Research). M.S., American University.


ROY F. HILL, Instructor in Health, Physical, and Recreation Education. M.S., University of Colorado.

SAM B. HILLIARD, Professor of Geography and Anthropology. Ph.D., University of Wisconsin—Madison.

DANIEL J. HILLMANN, Professor of Veterinary Anatomy and Fine Structure; Biomedical Communicator. D.V.M., Ph.D., Iowa State University.

EDITH B. HILTON, Instructor in Education (University Lab School). M.Ed., LSU.

STANLEY E. HILTON, Associate Professor of History. Ph.D., University of Texas at Austin.

H. GRADY HINES, JR., Associate Professor of Social Welfare. M.S.W., LSU.

S. JAMES HINTZE, Associate Professor of Foreign Languages. Ph.D., Karl Franzens Universität (Austria).

BILL R. HISE, Halliburton Professor of Petroleum Engineering. M.S., University of Oklahoma.

BOU-LOONG HO, Associate Professor of Electrical Engineering. Ph.D., Iowa State University.

BERT J. HOFF, Associate Professor of Agronomy. Ph.D., University of Arizona.

DONALD R. HOFFFEND, Professor of Psychology. Ph.D., University of Wisconsin—Madison.

J. WILLIAM HOFFFEND, Associate Professor of Mathematics. Ph.D., Harvard University.

PAUL E. HOFFMANN, Associate Professor of History. Ph.D., University of Florida.

GORDON E. HOLCOMB, Professor of Plant Pathology and Crop Physiology. Ph.D., University of Wisconsin—Madison.

WILLIAM R. HOLDEN, Professor of Petroleum Engineering. Ph.D., University of Texas at Austin.

JACK F. HOLGATE, Assistant Professor of Journalism. M.A., Norfolk State College.

MICHAEL L. HOLLAND, Assistant Professor of Accounting. Ph.D., University of Georgia.

R. BRUCE HOLLETT, Assistant Professor of Veterinary Clinical Medicine; Veterinary Clinician. D.V.M., University of Georgia; M.S., Purdue University.
JOHN P. HOLLIS, Professor of Plant Pathology and Crop Physiology. Ph.D., University of Nebraska.

BARBARA A. HOLT, Associate Professor of Vocational Home Economics Education. Ph.D., Cornell University.

ROBERT B. HOLTMAN, Professor of History. Ph.D., University of Wisconsin—Madison.

DOMINIQUE G. HOMBERGER, Assistant Professor of Zoology and Physiology. Ph.D., University of Zurich (Switzerland).

JAMES G. HOOTON, Assistant Professor of Mathematics. Ph.D., State University of New York at Buffalo.

ARTHUR M. HOOVER, Assistant Professor of Industrial and Technical Education. M.Ed., Sam Houston State University.

MARY F. HOPKINS, Associate Professor of Speech; Assistant Dean, Graduate School. Ph.D., LSU.

NORMAN L. HORN, Professor of Plant Pathology and Crop Physiology. Ph.D., LSU.

THOMAS W. HOSE, Associate Professor of Education (Department of Human Development). Ph.D., State University of New York at Buffalo.

FRED H. HOSKINS, Professor of Food Science. Ph.D., LSU.

JOHNNY D. HOSKINS, Associate Professor of Veterinary Clinical Medicine; Veterinary Clinician. D.V.M., Oklahoma State University; Ph.D., Iowa State University; Diplomate, American College of Veterinary Internal Medicine.

DANIEL G. HOTARD, Assistant Professor of Industrial Engineering. Ph.D., Mississippi State University.

KENDALL N. HOUK, Professor of Chemistry. Ph.D., Harvard University.

JERRY L. HOUSEHOLDER, Associate Professor of Construction. Ph.D., Georgia Institute of Technology.

PERRY H. HOWARD, Professor of Sociology. Ph.D., LSU.

PAULA M. HOWAT, Associate Professor of Home Economics. Ph.D., Virginia Polytechnic Institute.

NORMAN HOWDEN, III, Assistant Professor of Library Science. Ph.D., Case Western Reserve University.

DOROTHY C. HOWELL, Associate Professor of Home Economics. M.S., LSU.

ROY M. HOWSEN, Instructor in Economics. M.A., University of Arkansas.

THOMAS N. HRIBERNIK, Assistant Professor of Veterinary Clinical Medicine; Veterinary Clinician. D.V.M., University of Missouri; Diplomate, American College of Veterinary Internal Medicine.

SHIH-ANG HSU, Professor of Marine Sciences; Professor in Coastal Studies Institute. Ph.D., University of Texas at Austin.

SHIH-CHANG HU, Associate Professor of Forestry and Wildlife Management. Ph.D., LSU.

WILLIAM T. HUBBERT, Professor of Epidemiology and Community Health; Head, Department of Epidemiology and Community Health. D.V.M., Ph.D., University of California; Diplomate, American College of Veterinary Preventive Medicine.

R. ROBERT HUCKFELDT, Assistant Professor of Political Science. Ph.D., Washington University.

WAYNE H. HUDNALL, Assistant Professor of Agronomy. Ph.D., University of Hawaii.

AMELIA HUDSON, Assistant Professor of Speech. Ph.D., Florida State University.

JAMES F. HUDSON, Professor of Agricultural Economics and Agribusiness. Ph.D., Iowa State University.

DONALD C. HUFFMAN, Professor of Agricultural Economics and Agribusiness. Ph.D., Ohio State University.

RICHARD W. HUGGERT, Professor of Physics and Astronomy. Ph.D., Indiana University.

MARTIN E. HUGH-JONES, Associate Professor of Epidemiology and Community Health. Ph.D., Cambridge University (England).

OSCAR K. HUH, Associate Professor in Coastal Studies Institute. Ph.D., Pennsylvania State University.

DONALD A. HULSE, Associate Professor of Veterinary Surgery; Veterinary Surgeon (Department of Veterinary Clinical Sciences). D.V.M., Texas A&M University; Diplomate, American College of Veterinary Surgeons.

PAUL E. HUMES, Professor of Animal Science. Ph.D., Oregon State University.

LYMAN R. HUNTER, Assistant Professor of Education (Department of Human Development). Ph.D., University of Texas at Austin.

VIVIAN W. HURST, Instructor in Education (University Lab School). M.S., LSU.

BARBARA B. HURT, Instructor in Mathematics. M.S., LSU.

R. GREGORY HUSSEY, Professor of Physics and Astronomy; Associate Dean, College of Chemistry and Physics. Ph.D., LSU.

DANIEL H. HWANG, Assistant Professor of Home Economics. Ph.D., Colorado State University.

CORNELIUS J. HYDE, III, Assistant Professor of Finance. J.D., Tulane University; M.S., LSU.

EMILIO A. ICAZA, Assistant Professor of Experimental Statistics; Computer Analyst. Ph.D., LSU.

FRANK A. IDDINGS, Professor of Nuclear Science. Ph.D., University of Oklahoma.

RICHARD L. IMLAY, Associate Professor of Physics and Astronomy. Ph.D., Princeton University.

RODNEY H. INGRAHAM, Associate Professor of Veterinary Physiology, Pharmacology, and Toxicology; Associate Professor of Veterinary Science. D.V.M., University of California at Davis; Ph.D., Iowa State University.

CHARLES J. ISSEL, Associate Professor of Veterinary Virology (Department of Veterinary Science and Department of Veterinary Microbiology andParasitology). D.V.M., University of California at Davis; Ph.D., University of Wisconsin—Madison; Diplomate, American College of Veterinary Microbiologists.

TOM W. JACKSON, Professor of Aerospace Studies; Commandant of Cadets. M.S., George Washington University.

QUENTIN A. L. JENKINS, Professor of Sociology; Chairman, Department of Sociology. Coordinator, Rural Sociology Research. Ph.D., Iowa State University.

SUZANNE M. JENSEN, Associate Professor of Psychology; Psychologist, Student Health Services. Ph.D., University of Bonn (West Germany).

ALBERT J. JETTY, Associate Professor of Speech. Ph.D., Michigan State University.


KIM L. JOHNS, Assistant Professor of Foreign Languages. Ph.D., University of North Carolina at Chapel Hill.

ADRAIN E. JOHNSON, JR., Professor of Chemical Engineering. Ph.D., University of Florida.

DAVID B. JOHNSON, Professor of Economics; Director, Division of Research (College of Business Administration). Ph.D., University of Virginia.

DAVID E. JOHNSON, Professor of Electrical Engineering. Ph.D., Auburn University.

JOHNNY R. JOHNSON, Professor of Electrical Engineering. Ph.D., Auburn University.

SETH J. JOHNSON, Assistant Professor of Entomology. Ph.D., Texas A&M University.
WILLIAM A. JOHNSON, Professor of Poultry Science. Ph.D., University of Minnesota.

CHARLES T. JONES, Assistant Professor of Journalism. M.A., University of Alabama.

E. YVONNE JONES, Instructor in Mathematics. M.S., LSU.

E. ROGER JONES, Jr., Assistant Professor of Industrial Engineering. M.S., LSU.

J. BUSH JONES, Associate Professor of Computer Science. Ph.D., Southern Methodist University.

J. PRESTON JONES, Professor of Agronomy; Head, Department of Agronomy. Ph.D., University of Arizona.

JACK E. JONES, Professor of Agronomy. Ph.D., LSU.

JOHN P. JONES, Assistant Professor of Plant Pathology and Crop Physiology. Ph.D., University of Georgia.

JOSEPH H. JONES, Jr., Professor of Sociology; Professor of Extension Education; Program Analyst. Ph.D., University of Kentucky.

LAMAR B. JONES, Professor of Economics; Associate Dean, College of Business Administration. Ph.D., University of Texas at Austin.

LLOYD G. JONES, Professor of Horticulture. Ph.D., Purdue University.

MARGARET B. JONES, Instructor in Office Administration. M.Ed., LSU.

MARY S. JONES, Assistant Professor of Education (University Lab School). M.Ed., LSU.

W. VERNON JONES, Associate Professor of Physics and Astronomy. Ph.D., LSU.

DIANE B. JORDAN, Assistant Professor of Education (University Lab School). M.Ed., LSU.

JOHN E. JORDAN, Professor of Education (Department of Human Development). IRSEN Secretariat. Ph.D., Michigan State University.

ROSAN JORDAN, Assistant Professor of English. Ph.D., Indiana University.

PAUL M. JULICH, Professor of Electrical Engineering. Ph.D., Auburn University.

ARTHUR H. KAPLE, Associate Professor of Architecture. M.A., University of Minnesota.

LEONARD C. KAPPEL, Assistant Professor of Veterinary Physiology, Pharmacology, and Toxicology. Ph.D., University of Missouri.

TAMARA KASZKUREWICZ, Assistant Professor of Foreign Languages. M.A., University of Wilno (Poland).

RAPHAEL G. KAZMANN, Professor of Civil Engineering; Associate Director, Louisiana Water Resources Research Institute. B.S., Carnegie-Mellon University.

BANWARI L. KEDIA, Associate Professor of Management. Ph.D., Case Western Reserve University.

JAMES E. KEISLER, Professor of Mathematics. Ph.D., University of Michigan.

ERNEST A. KEITH, Assistant Professor of Dairy Science. Ph.D., Purdue University.

NANCY K. KEITH, Assistant Professor of Experimental Statistics. Ph.D., Purdue University.

ELEANOR A. KELLEY, Professor of Home Economics. Ph.D., Michigan State University.

GARY G. KELLY, Instructor in Civil Engineering. M.S., Ohio State University.

JOAN L. KELLY, Instructor in English. M.A., Ohio State University.

J. GERALD KENNEDY, Associate Professor of English. Ph.D., Duke University.


KIRKLYN M. KERR, Professor of Veterinary Science; Head, Department of Veterinary Science; Assistant Dean, School of Veterinary Medicine. D.V.M., Ohio State University; Ph.D., Texas A&M University; Diplomate, American College of Veterinary Pathologists.

RICHARD H. KESEL, Associate Professor of Geography and Anthropology. Ph.D., University of Maryland.

NEIL R. KESTNER, Professor of Chemistry; Chairman, Department of Chemistry. Ph.D., Yale University.

RASHID A. KHALID, Associate Professor in Laboratory for Wetland Soils and Sediments. Ph.D., University of Hawaii.

SIAMAK KHORRAM, Associate Professor of Geography and Anthropology. Ph.D., University of California at Davis.

LEONARD L. KILORE, Jr., Professor of Education (Department of Curriculum and Instruction). Ed.D., George Peabody College for Teachers.

JOHN C. KIMBALL, Associate Professor of Physics and Astronomy. Ph.D., University of Chicago.

OSCAR K. KIMBLER, Campanile Charities Professor of Petroleum Engineering. Ph.D., University of Texas at Austin.

RALPH A. KINNEY, Professor of Electrical Engineering; Director of Instruction, College of Engineering. Ph.D., University of Florida.

HARRY L. KIRBY, Jr., Associate Professor of Foreign Languages. Ph.D., University of Illinois at Urbana-Champaign.

PAUL N. KIRK, Associate Professor of Physics and Astronomy. Ph.D., Massachusetts Institute of Technology.

KENNETH F. KITCHELL, Jr., Assistant Professor of Foreign Languages. M.A., Loyola University of Chicago.

KENNETH B. KLAUS, Alumni Professor of Music. Ph.D., University of Iowa.

THOMAS R. KLEI, Associate Professor of Parasitology (Department of Veterinary Microbiology and Parasitology and Department of Veterinary Science). Ph.D., Wayne State University.

VICTOR A. KLIMASH, Associate Professor of Music. D.M., Florida State University.

RONALD M. KNAUS, Assistant Professor of Nuclear Science. Ph.D., Oregon State University.

JUDY K. KNIPMEYER, Instructor in English. M.A., LSU.


ROBERT J. KOCH, Professor of Mathematics. Ph.D., Tulane University.

JOHN B. KOEHL, Instructor in Mathematics. M.A., Sam Houston State University.

PAUL E. KOENIG, Professor of Chemistry; Assistant Vice-Chancellor for Academic Affairs. Ph.D., University of Iowa.

KENNETH L. KOONCE, Professor of Experimental Statistics. Ph.D., North Carolina State University at Raleigh.

JOE W. KOTRULIK, Assistant Professor of Vocational Agricultural Education. Ph.D., Texas A&M University.

DONALD H. KRAFT, Associate Professor of Computer Science. Ph.D., Purdue University.

VINCENT F. KUITEMEYER, Associate Professor of Industrial and Technical Education. Ed.D., Texas A&M University.

SANDRA KUNGLE, Assistant Professor of Music. D.M.A., University of Colorado.

HUI-HSUNG KUO, Associate Professor of Mathematics. Ph.D., Cornell University.
DONALD H. KUPFER, Professor of Geology. Ph.D., Yale University.
KENNETH F. KUZENSKI, Assistant Professor of Social Welfare. M.S.W., LSU.
DANIEL G. KYLE, Associate Professor of Accounting. Ph.D., University of Arkansas.
JEFFERY L. LAFAGE, Assistant Professor of Entomology. Ph.D., University of Arizona.
JOSEPH A. LA MARCA, Assistant Professor of Aerospace Studies. M.A., University of Northern Colorado; B.M.A., University of Wyoming.
EDWARD N. LAMBRENT, Professor of Nuclear Science; Director, Nuclear Science Center. Ph.D., Ohio State University.
VALENTINE A. LANCE, Assistant Professor of Zoology and Physiology. Ph.D., University of Hong Kong.
ARLO U. LANDOLT, Professor of Physics and Astronomy. Ph.D., Indiana University.
PAUL E. LANDRY, Instructor in Medical Technology. M.S., LSU.
IRVING M. LANE, Associate Professor of Psychology. Ph.D., Michigan State University.
WILLIAM R. LANE, Assistant Professor of Finance. Ph.D., University of North Carolina at Chapel Hill.
PHILIP B. LARimore, Jr., Assistant Professor of Geography and Anthropology; Cartographer. M.S., University of Virginia.
JOHN M. LARKIN, Associate Professor of Microbiology. Ph.D., Washington State University.
ALWORTH D. LARSON, Professor of Microbiology. Ph.D., University of Iowa.
JERRY M. LAW, Professor of Agricultural Economics and Agribusiness. Ph.D., University of Minnesota.
JIMMIE D. LAWSON, Professor of Mathematics. Ph.D., University of Tennessee.
ROBERT F. LAX, Associate Professor of Mathematics. Ph.D., Massachusetts Institute of Technology.
CAROL M. LAZZARO, Assistant Professor of Foreign Languages. Ph.D., University of Pennsylvania.
TERRY L. LEAP, Assistant Professor of Management. Ph.D., University of Iowa.
ALLEN F. LEE, Associate Professor of Veterinary Physiology, Pharmacology, and Toxicology. D.V.M., Tuskegee Institute; Ph.D., University of Georgia.
AMELIA M. LEE, Associate Professor of Health, Physical, and Recreation Education. Ph.D., Texas Woman's University.
BUN SONG LEE, Associate Professor of Economics. Ph.D., Southern Methodist University.
KWOK PUN LEE, Assistant Professor of Computer Science. Ph.D., State University of New York at Buffalo.
PAUL D. LEE, Associate Professor of Physics and Astronomy. Ph.D., University of Illinois at Urbana-Champaign.
WILLIAM R. LEE, Professor of Zoology and Physiology. Ph.D., University of Wisconsin—Madison.
PHILLIS J. LEFEAUX, Assistant Professor of Social Welfare. M.S.W., LSU.
DORIS O. LENTZ, Instructor in Education (University Lab School). M.Ed., LSU.
THELM A. LEONARD, Professor of Vocational Home Economics Education. Ed.D., Oklahoma State University.
JOE M. LESEM, II, Assistant Professor of Journalism. M.A.J., University of Missouri.
HELEN E. LEVY, Instructor in Veterinary Science. B.S., LSU.
HARVYE F. LEWIS, Professor of Home Economics. Ph.D., Iowa State University.
MEREDITH H. LIEUX, Assistant Professor of Botany. Ph.D., LSU.
MARY L. LIFE, Associate Professor of Health, Physical, and Recreation Education. Ph.D., LSU.
G. DON LINDBERG, Professor of Plant Pathology and Crop Physiology. Ph.D., University of Wisconsin—Madison.
DAVID F. LINDENFELD, Assistant Professor of History. Ph.D., University of Chicago.
JOHN E. LINDELEY, Assistant Professor of Mathematics. Ph.D., Princeton University.
WILLIAM A. LINDSAY, Assistant Professor of Veterinary Surgery; Veterinary Clinician. D.V.M., Ontario Veterinary College.
DONALD R. LINGARD, Professor of Veterinary Medicine; Professor of Theriogenology; Head, Department of Veterinary Clinical Sciences; Director of Veterinary Clinics. D.V.M., Ontario Veterinary College (Canada); Ph.D., Washington State University; Diplomate, American College of Theriogenology.
NORWIN E. LINNARTZ, Professor of Forestry and Wildlife Management; Assistant Dean, Graduate School. Ph.D., LSU.
LEORA M. LIPE, Associate Professor of Health, Physical, and Recreation Education; Associate Dean for Academic Affairs, College of Education. Ed.D., Florida State University.
PATRICK C. LIPSCOMB, III, Associate Professor of History. Ph.D., University of Texas at Austin.
DANIEL C. LITTLEFIELD, Assistant Professor of History. Ph.D., Johns Hopkins University.
JOSEPH A. LIUZZO, Professor of Food Science. Ph.D., Michigan State University.
DAVID J. LONGSTRETH, Assistant Professor of Botany. Ph.D., Duke University.
JOHN L. LOOS, Professor of History; Chairman, Department of History. Ph.D., Washington University (Mo.).
ANNE C. LOVELAND, Associate Professor of History. Ph.D., Cornell University.
DONALD R. LOWE, Professor of Geology. Ph.D., University of Illinois.
BERNARD LOWY, Professor of Botany. Ph.D., University of Iowa.
ALFREDO R. LOZADA, Professor of Foreign Languages. Ph.D., University of California at Berkeley.
WILLIAM J. LUKÉ, Associate Professor of Botany. Ph.D., LSU.
PETER J. LUNARDINI, Professor of Foreign Languages. Ph.D., University of New Mexico.
CATHERINE A. LUNDERGAN, Assistant Professor of Horticulture. Ph.D., Purdue University.
D. GENE LUTHER, Associate Professor of Veterinary Clinical Medicine; Veterinary Microbiologist. D.V.M., Oklahoma State University; Ph.D., LSU; Diplomate, American College of Veterinary Microbiologists.
ROBERT F. LYON, Assistant Professor of Art. M.F.A., Tyler School of Art.
JAMES A. MACKEY, Associate Professor of Education (Department of Human Development); Assistant Dean, College of Education. Ed.D., LSU.
MAE S. MACKEY, Instructor in Education (University Lab School). M.Ed., LSU.
PETER S. MACWILLIAMS, Associate Professor of Veterinary Pathology. D.V.M., Cornell University; Ph.D., Western College of Veterinary Medicine (Canada).

BERNARD L. MADISON, Professor of Mathematics. Ph.D., University of Kentucky.

RICHARD A. MAGILL, Associate Professor of Health, Physical, and Recreation Education. Ph.D., Florida State University.

RENEE H. MAJOR, Instructor in English. M.A., University of Texas at Austin.

JOHN B. MALONE, Jr., Assistant Professor of Veterinary Parasitology (Department of Veterinary Microbiology and Parasitology). D.V.M., University of California—Davis; Ph.D., University of Georgia.

RONALD F. MALONE, Assistant Professor of Civil Engineering. Ph.D., Utah State University.

JAMES E. MANGAN, Assistant Professor of Speech. Ph.D., University of Iowa.

LAWRENCE MANN, Jr., Professor of Industrial Engineering; Chairman, Department of Industrial Engineering. Ph.D., Purdue University.

THOMAS A. MANNING, Jr., Associate Professor of Civil Engineering. Ph.D., Stanford University.

DUPREE MAPLES, Professor of Mechanical Engineering. Ph.D., Oklahoma State University.

CLIFTON B. MARLIN, Associate Professor of Forestry and Wildlife Management. M.F., Duke University.

ALAN H. MARSHAK, Professor of Electrical Engineering. Ph.D., University of Arizona.

JACK E. MARSHALL, Assistant Professor of Architecture. M.Arch., University of Illinois at Urbana-Champaign.

JOHN T. MARSHALL, Associate Professor of Physics and Astronomy. Ph.D., Washington University (Mo.).

MARGARET M. MARSHALL, Assistant Professor of Foreign Languages. Ph.D., Pennsylvania State University.

CHARLES G. MARTIN, Associate Professor of Finance. Ph.D., University of North Carolina at Chapel Hill.

FREDDIE A. MARTIN, Associate Professor of Plant Pathology and Crop Physiology. Ph.D., Cornell University.

ROBERT E. MARTIN, Assistant Professor of Economics. Ph.D., Southern Methodist University.

WESTON J. MARTIN, Professor of Plant Pathology and Crop Physiology; Head, Department of Plant Pathology and Crop Physiology. Ph.D., University of Minnesota.

JOSEPH D. MARTINEZ, Professor of Environmental Engineering; Director, Institute for Environmental Studies. Ph.D., LSU.

DONALD L. MARX, Assistant Professor of Quantitative Methods. Ph.D., University of Houston.

LAWRENCE J. MARX, Instructor in Mathematics. Ph.D., University of Minnesota.

CARROLL K. MATHEWS, Instructor in Interior Design (School of Architecture). B.F.A., LSU.

F. NEIL MATHEWS, Assistant Professor of Education (Department of Human Development). Ph.D., University of Connecticut.

ROBERT C. MATHEWS, Assistant Professor of Psychology. Ph.D., Yale University.

WAYNE L. MATTICE, Professor of Biochemistry; Professor of Chemistry. Ph.D., Duke University.

RICHARD A. MATULA, Professor of Mechanical Engineering; Dean, College of Engineering. Ph.D., Purdue University.

MARCHITA B. MAUCK, Associate Professor of Art. Ph.D., Tulane University.

SPENCER J. MAXCY, Associate Professor of Education (Department of Administrative and Foundational Services). Ph.D., Indiana University.

JOHN R. MAY, Associate Professor of English; Chairman, Freshman English. Ph.D., Emory University.

MANSEL M. MAYEUX, Professor of Agricultural Engineering. M.S., LSU.

GLEN A. MAZIS, Assistant Professor of Philosophy. Ph.D., Yale University.

FRITZ A. MCCAMERON, Professor of Accounting; Dean, Division of Continuing Education. Ph.D., University of Alabama.

EUGENE C. MCCANN, Professor of Management. Ph.D., LSU.

JILL J. McCULLE, Assistant Professor of Veterinary Medicine; Veterinary Clinician. D.V.M., University of Minnesota.

J. RAYMOND McCULLE, Assistant Professor of Veterinary Surgery; Veterinary Clinician. D.V.M., Kansas State University.

ANNETTE M. MccORMICK, Associate Professor of English. Ph.D., University of London (England).

JAMES L. McDUFFIE, Professor of Education (Department of Human Development). Ed.D., University of Virginia.

BOBBIE B. McFATTTER, Associate Professor of Extension Education. Ed.D., LSU.

NANCY J. McGEE, Instructor in English. M.A., University of Delaware.

O. CARRUTH McGEHEE, Professor of Mathematics; Chairman, Department of Mathematics. Ph.D., Yale University.

SEAN P. McGlyNN, Boyd Professor, Department of Chemistry. Ph.D., Florida State University.

RENEE K. McGRATH, Assistant Professor of Veterinary Clinical Medicine; Veterinary Clinician. D.V.M., University of Georgia.

ROBERT C. McILHENNY, Associate Professor of Nuclear Science. Ph.D., University of Tennessee.

WESLEY J. McJULIEN, Associate Professor of Education (Department of Administrative and Foundational Services). Ph.D., Syracuse University.

DEAN C. McKEE, Professor of Civil Engineering; Professor of Construction. Ph.D., University of Illinois.

WALLACE C. McKENZIE, Jr., Professor of Music. Ph.D., North Texas State University.

EDWARD McLAUGHLIN, Professor of Chemical Engineering; Chairman, Department of Chemical Engineering. Ph.D., D.Sc., London University (England).

K. RINN McLELLAN, Assistant Professor of Home Economics. Ph.D., University of North Carolina at Greensboro.

GERALD J. McLINDON, Professor of Landscape Architecture; Dean, College of Design; Dean, Office of Futures Studies. M.L.A., Harvard University.

JAMES G. McMURRY, Professor of Industrial and Technical Education; Head, Department of Industrial and Technical Education. Ed.D., University of Missouri.

ANDREW J. McPHERTE, Professor of Mechanical Engineering. M.S., Louisiana Tech University.

TROY M. McQUEEN, Associate Professor of Architecture. M.S., Cornell University.

ALBERT J. MEEK, Assistant Professor of Art. M.F.A., Ohio University.

C. LAMAR MEEK, Associate Professor of Entomology. Ph.D., Texas A&M University.

ALBERT H. MEIER, Professor of Zoology and Physiology. Ph.D., University of Missouri.

LEE J. MILTON, Jr., Professor of Economics. Ph.D., LSU.

IRVINING A. MENDELSsoHN, Assistant Professor in Laboratory for Wetland Soils and Sediments. Ph.D., North Carolina State University at Raleigh.
MARY P. MENENDEZ, Associate Professor of Art. Ed.D., University of Georgia.
J. FRANCINE MERRITT, Professor of Speech. Ph.D., LSU.
WILLIAM J. METCALF, Assistant Professor of Physics and Astronomy. Ph.D., California Institute of Technology.
SAMUEL P. MEYERS, Professor of Food Science. Ph.D., Columbia University.
MARK MICHAEL, Instructor in Mathematics. Ph.D., LSU.
FRANCIS L. MIKSA, JR., Associate Professor of Library Science. Ph.D., University of Chicago.
ROBERT E. MILES, Assistant Professor of Nuclear Engineering (Nuclear Science Center). Ph.D., University of Missouri.
BOBBY J. MILLER, Associate Professor of Agronomy. Ph.D., University of Tennessee.
PERCY H. MILLER, Professor of Mechanical Engineering. Ph.D., University of Texas at Austin.
RUSSELL L. MILLER, Professor of Agronomy. Ph.D., LSU.
MERRILL T. MIMS, Instructor in Computer Science. M.Ed., Northwestern State University; M.S. in SysSc., LSU.
RAYMOND R. MINCHEW, Instructor in Education (University Lab School). Ed.S., Louisiana Tech University.
BENJAMIN E. MITCHELL, Professor of Mathematics. Ph.D., University of Wisconsin—Madison.
HAROLD D. MIXON, Associate Professor of Speech. Ph.D., Florida State University.
BRU MOHAN, Associate Professor of Social Welfare. Ph.D., Lucknow University (India).
CLIFFORD L. MONDART, JR., Professor of Agronomy. Ph.D., Mississippi State University.
RONALD C. MONTELARO, Assistant Professor of Biochemistry. Ph.D., University of Wisconsin—Madison.
SARAH C. MOODY, Assistant Professor of Psychology. Ph.D., University of Georgia.
CLYDE H. MOORE, JR., Professor of Geology. Ph.D., University of Texas at Austin.
DON D. MOORE, Professor of English. Ph.D., Tulane University.
DOUGLAS H. MOREMAN, Instructor in Mathematics. Ph.D., Auburn University.
MAURICE C. MORRISSETTE, Professor of Veterinary Pharmacology, Head, Department of Veterinary Physiology, Pharmacology, and Toxicology. D.V.M., Kansas State University; Ph.D., Oklahoma State University.
ALICE A. MOSLEY, Assistant Professor of Education (University Lab School). M.Ed., LSU.
WILLIAM J. MOSLEY, Associate Professor of Education (Department of Human Development). Ph.D., University of Connecticut.
JONH C. MOUTON, Assistant Professor of Construction. M.B.C., University of Florida.
ROBERT A. MULLER, Professor of Geography and Anthropology; Chairman, Department of Geography and Anthropology. Ph.D., Syracuse University.
WHITNEY R. MUNDT, Associate Professor of Journalism. Ph.D., LSU.
RUTH C. MURRAY, Assistant Professor of Books and Libraries. M.A., M.S., LSU.
STEPHEN P. MURRAY, Professor of Marine Sciences, Assistant Director, Coastal Studies Institute. Ph.D., University of Chicago.
PAUL W. MURRILL, Professor of Chemical Engineering; Chancellor, LSU. Ph.D., LSU.
RICHARD A. MUSEMICH, Professor of Education (Department of Administrative and Foundational Services). Ed.D., University of Arkansas.
JOSEPH A. MUSICK, Assistant Professor of Agricultural Economics and Agribusiness. Ph.D., University of Missouri.
RICHARD B. MYERS, Associate Professor of Veterinary Science; Associate Professor of Veterinary Anatomy. D.V.M., Kansas State University.
JONH C. MYLES, Instructor in Military Science.
LARRY A. NAFE, Assistant Professor of Veterinary Clinical Medicine; Veterinary Clinician. D.V.M., University of Missouri at Columbia.
JAMES T. NARDIN, Professor of English. Ph.D., University of Chicago.
ANNA K. NARDO, Assistant Professor of English. Ph.D., Emory University.
ROBERT V. NAUMAN, Professor of Chemistry. Ph.D., University of California at Berkeley.
MARILYN B. NEIDIG, Professor of Education; Chairman, Department of Curriculum and Instruction. Ph.D., University of Iowa.
JACK K. NELSON, Professor of Health, Physical, and Recreation Education. Ed.D., University of Oregon.
JOYCE E. NELSON, Instructor in Geology; Map Curator, School of Geoscience. M.S., LSU.
ROBERT T. NETHKEN, Associate Professor of Electrical Engineering; Associate Professor of Construction. M.S., University of Kentucky.
ROBERT W. NEUMAN, Assistant Professor of Geography and Anthropology; Curator, Museum of Anthropology. M.A., LSU.
EDWARD J. NEWBY, Professor of Foreign Languages. Ph.D., University of North Carolina at Chapel Hill.
EDWIN J. NEWCHURCH, Professor of Environmental Engineering (Institute for Environmental Studies). B.S., LSU.
GEORGE R. NEWKOME, Professor of Chemistry. Ph.D., Kent State University.
DONALD W. NEWSOM, Professor of Horticulture; Head, Department of Horticulture. Ph.D., Michigan State University.
L. DALE NEWSOM, Boyd Professor, Department of Entomology. Ph.D., Cornell University.
MILTON B. NEWTON, JR., Professor of Geography and Anthropology. Ph.D., LSU.
LEWIS G. NICHOLS, Instructor in Geology; Assistant to the Director, School of Geoscience. M.S., LSU.
STEVEN S. NICHOLSON, Associate Professor of Veterinary Physiology, Pharmacology, and Toxicology; Specialist, Agricultural Extension Service. D.V.M., Texas A&M University.
JERRY L. NIELSON, Professor of Interior Design; Associate Director for Interior Design, School of Architecture. B.A., University of Washington.
AUGUSTO NOBILE, Associate Professor of Mathematics. Ph.D., Massachusetts Institute of Technology.
ROBERT E. NOBLE, Associate Professor of Forestry and Wildlife Management. Ph.D., Michigan State University.
NANCY M. NOELL, Instructor in Quantitative Methods. M.A., LSU.
BURL L. NOGGLE, Professor of History. Ph.D., Duke University.
MARY E. NORICKAUER, Associate Professor of Health, Physical, and Recreation Education. M.S., LSU.
WILLIAM H. PATRICK, JR., Boyd Professor, Department of Marine Sciences; Director, Laboratory for Wetland Soils and Sediments. Ph.D., LSU.

CHARLES D. PATTERSON, Professor of Library Science. Ph.D., University of Pittsburgh.

JOHN P. PATTERSON, Professor of Music. M.M., University of Texas at Austin.

PEGGY L. PATTERSON, Assistant Professor of Military Science. B.A., Golden Gate University.

JOHN H. PATTON, Associate Professor of Speech. Ph.D., Indiana University.

MICHAEL M. PAVLETIC, Assistant Professor of Veterinary Surgery (Department of Veterinary Clinical Sciences); Veterinary Clinician. D.V.M., University of Illinois.

KENNETH W. PAXTON, Associate Professor of Agricultural Economics and Agribusiness. Ph.D., University of Tennessee.

JAMES P. PAYNE, JR., Alumni Professor of Economics. Ph.D., University of Illinois.

JOHN H. PENNYBACKER, Professor of Speech; Chairman, Department of Speech. Ph.D., Ohio State University.

A. CLINTON PEREBOOM, Associate Professor of Psychology. Ph.D., University of California at Los Angeles.

LISANDRO PEREZ, Associate Professor of Sociology. Ph.D., University of Florida.

HUEL D. PERKINS, Professor of Humanities. Ph.D., Northwestern University (Ill.).

ROBERT A. PERKINS, Associate Professor of Social Welfare. Ph.D., LSU.

ELIZABETH R. PERRIN, Instructor in Engineering Graphics (Department of Industrial Engineering). B.S., LSU.

PATSY H. PERRITT, Associate Professor of Library Science. Ph.D., LSU.

CHARLES L. PERRY, Professor of Physics and Astronomy. Ph.D., University of California at Berkeley.

LYNN L. PESSON, Professor of Extension Education; Vice-Chancellor for Administration. Ph.D., LSU.

MICHAEL H. PETERS, Associate Professor of Management. D.B.A., Indiana University.

OWEN M. PETERSON, Professor of Speech. Ph.D., University of Iowa.

CHARLOTTE S. PHILLIPS, Instructor in English. M.Ed., LSU.

LORRAINE H. PHILLIPS, Associate Professor of Home Economics. M.S., LSU.

ELIZABETH T. PIERCE, Instructor in Health, Physical, and Recreation Education. M.M., LSU.

RALPH W. PIKE, JR., Professor of Chemical Engineering; Assistant Vice-Chancellor for Research. Ph.D., Georgia Institute of Technology.

REX H. PILGER, JR., Associate Professor of Geology. Ph.D., University of Southern California.

HERBERT PILLER, Associate Professor of Physics and Astronomy. Ph.D., University of Vienna (Austria).

JOSEPH A. POLACK, Professor of Chemical Engineering; Director, Audubon Sugar Institute. Sc.D., Massachusetts Institute of Technology.

JOSEPH S. POPADIC, Associate Professor of Landscape Architecture. M.L.A., State University of New York, College of Environmental Science and Forestry.

JACK K. POPLIN, Associate Professor of Civil Engineering. Ph.D., North Carolina State University at Raleigh.

NICK B. POPONAC, Associate Professor of Foreign Languages. Ph.D., University of Montreal (Canada).

DARWIN H. PORTTZ, Assistant Professor of Mathematics. Ph.D., University of Waterloo (Canada).
WILLIAM A. PORTER, Professor of Electrical Engineering; Chairman, Department of Electrical Engineering. Ph.D., University of Michigan, Ann Arbor.

EDWARD R. PRAMUK, Professor of Art. M.A., Kent State University.

BERNARD S. PRESSBURG, Professor of Chemical Engineering; Associate Dean for Instruction and Undergraduate Activities, College of Engineering. Ph.D., LSU.

PERRY H. PRESTHOLDT, Associate Professor of Psychology. Ph.D., University of Minnesota.

GEORGE L. PRICE, Assistant Professor of Chemical Engineering. Ph.D., Rice University.

DAVID B. PRIOR, Associate Professor of Coastal Studies Institute. Ph.D., Queen’s University (N. Ireland).

JAMES M. PRUETT, Associate Professor of Industrial Engineering. Ph.D., University of Arkansas.

FELICIA Y. PRYOR, Associate Professor of Psychology. Ph.D., Purdue University.

WILLIAM A. PRYOR, Boyd Professor, Department of Chemistry. Ph.D., University of California at Berkeley.

VIRGINIA S. PURTLE, Associate Professor of Sociology; Associate Dean, College of Arts and Sciences. Ph.D., LSU.

CHARLES W. QUALLS, Assistant Professor of Veterinary Pathology. D.V.M., Oklahoma State University.

J. DONALD RAGSDALE, JR., Professor of Speech. Ph.D., University of Illinois.

ATTIPAT K. RAJAGOPAL, Professor of Physics and Astronomy. Ph.D., Harvard University.

ARAVAMUDH RAMAN, Professor of Mechanical Engineering. Dr. rer. Nat., Technische Hochschule, Stuttgart (West Germany).

PAULINE M. RANKIN, Associate Professor of Education (Department of Administrative and Foundational Services); Associate Director, Instructional Resources Center. Ph.D., LSU.

RAMU M. RAO, Professor of Food Science. Ph.D., LSU.

ROBERT R. RATHBURN, Assistant Professor of Geography and Anthropology. Ph.D., University of Wisconsin—Madison.

A. RAVI RAO, Associate Professor of Physics and Astronomy. Ph.D., University of Chicago.

EDITH C. Raulins, Assistant Professor of Education (University Lab School). M.A., LSU.

JOHN R. RAUSH, Assistant Professor of Music. D.M.A., University of Texas at Austin.

THOMAS G. RAY, Associate Professor of Industrial Engineering. Ph.D., Virginia Polytechnic Institute.

KATHERINE V. RAYNE, Associate Professor of Social Welfare. M.S.W., LSU.

THOMAS E. REAGAN, Associate Professor of Entomology. Ph.D., North Carolina State University at Raleigh.

EARL W. REDDING, Professor of Music. D.M.A., University of Missouri.

JAMES W. REDDOCH, Professor of Marketing; Vice-Chancellor for Student Affairs. Ph.D., LSU.

JAMES G. REDFERN, Professor of Foreign Languages. Ph.D., University of Michigan.

EVELYN REED, Associate Professor of Social Welfare. D.S.W., University of California at Berkeley.

WILSON A. REEVES, Professor of Home Economics. Sc.D., Clemson University.

ROBERT S. REICH, Alumni Professor of Landscape Architecture; Director, School of Landscape Architecture. Ph.D., Cornell University.

KENNETH B. REID, JR., Associate Professor of Mathematics. Ph.D., University of Illinois.

JAMES V. REMSEN, JR., Assistant Professor of Zoology and Physiology; Curator, Museum of Natural Science. Ph.D., University of California, Berkeley.

STEVEN L. RENSHAW, Assistant Professor of Speech. Ph.D., University of Oklahoma.

JAMES R. RETHERFORD, Professor of Mathematics. Ph.D., Florida State University.

JOSEPH M. REYNOLDS, Boyd Professor, Department of Physics; Vice-President for Instruction and Research (LSU System). Ph.D., Yale University.

JOHN P. RIBES, Assistant Professor of Landscape Architecture. B.L.A., LSU.

RAY RICAUD, Professor of Agronomy. Ph.D., LSU.

G. RANDOLPH RICE, Associate Professor of Economics; Chairman, Department of Economics. Ph.D., University of Kentucky.

ALLAN R. RICHARDS, Professor of Political Science. Ph.D., University of North Carolina at Chapel Hill.

GILL G. RICHARDS, Assistant Professor of Electrical Engineering. Ph.D., University of Southern California.

GAVIN F. RICHARDSON, Assistant Professor of Veterinary Medicine; Veterinary Clinician. D.V.M., Western College of Veterinary Medicine (Canada); M.V. Sc., University of Saskatchewan (Canada).

JAMES A. RICHARDSON, Associate Professor of Economics. Ph.D., University of Michigan.

LEONARD F. RICHARDSON, Associate Professor of Mathematics. Ph.D., Yale University.

MILES E. RICHARDSON, Professor of Geography and Anthropology. Ph.D., Tulane University.

MYRTIS F. RILEY, Associate Professor of Music. M.M., LSU.

ARTHUR J. RIOPELLE, Boyd Professor, Department of Psychology. Ph.D., University of Wisconsin—Madison.

GERALD E. RISINGER, Associate Professor of Biochemistry. Ph.D., Iowa State University.

JOHN H. RISTOPH, Assistant Professor of Industrial Engineering. Ph.D., Virginia Polytechnic Institute.

DENNIS W. RITTENHOUSE, Assistant Professor of Military Science. B.S., University of Nebraska.

CHARLIE W. ROBERTS, JR., Professor of Education (Department of Administrative and Foundational Services); Director, Instructional Resources Center. Ed.D., LSU.

EDGAR D. ROBERTS, Professor of Veterinary Pathology; Head, Department of Veterinary Pathology. D.V.M., Colorado State University; Ph.D., Iowa State University; Diplomat, American College of Veterinary Pathology.

HARRY H. ROBERTS, Professor of Marine Sciences; Professor in Coastal Studies Institute. Ph.D., LSU.

JOSEPHINE A. ROBERTS, Assistant Professor of English. Ph.D., University of Pennsylvania.

DONALD L. ROBINSON, Associate Professor of Agronomy. Ph.D., Kansas State University.

JAMES W. ROBINSON, Professor of Chemistry. Ph.D., D.Sc., Birmingham University (England).

KARL A. ROIDER, JR., Associate Professor of History. Ph.D., Stanford University.

LAWRENCE H. ROLSTON, Professor of Entomology. Ph.D., Ohio State University.

CHARLES R. ROOT, Professor of Veterinary Radiology; Veterinary Radiologist (Department of Veterinary Clinical Sciences). D.V.M., Washington State University; M.S., Colorado State University; Diplomat, American College of Veterinary Radiology.
ARThur L. RosenKrantz, Assistant Professor of Psychology; Psychologist, Student Health Service. Ph.D., University of Florida.

DOUGLAS A. Rossman, Professor of Zoology and Physiology; Curator, Museum of Zoology. Ph.D., University of Florida.

HERBERT B. RoTHSCHILD, JR., Associate Professor of English; Director, Division of Honors and Interdisciplinary Studies. Ph.D., Harvard University.

LEster W. RoUBey, Associate Professor of Foreign Languages. Ph.D., Johns Hopkins University.

GEORGE A. ROuNDTREE, Associate Professor of Social Welfare. Ed.D., LSU.

Lawrence J. RoUSE, JR., Associate Professor of Marine Sciences; Associate Professor in Coastal Studies Institute. Ph.D., LSU.

NICHOLAS M. ROUSE, Assistant Professor of Music; Director of Bands. M.M.Ed., LSU.

John S. RoUSSel, Professor of Entomology; Assistant to the Director, Agricultural Experiment Station; Coordinator of Cotton Research. Ph.D., Texas A&M University.

Joseph D. RoUSSel, Professor of Dairy Science. Ph.D., LSU.

John E. RoViK, Assistant Professor of Geology. M.S., LSU.

Ewell P. RoY, Professor of Agricultural Economics and Agribusiness. Ph.D., LSU.

walter G. RuDD, Associate Professor of Computer Science; Chairman, Department of Computer Science. Ph.D., Rice University.

LYnn K. RUNNELS, Professor of Chemistry. Ph.D., Yale University.

Milton C. RuSh, Professor of Plant Pathology and Crop Physiology. Ph.D., North Carolina State University at Raleigh.

Louis L. RuSOFF, Professor of Dairy Science. Ph.D., University of Minnesota.

walter E. RuTKOWSKI, Professor of Art; Director, School of Art. Ed.D., Pennsylvania State University.

Hulan E. RuTLAND, Assistant Professor of Construction. B.S., LSU.

James E. RuTLEGDE, Professor of Food Science; Acting Head, Department of Food Science. Ph.D., LSU.

MehDy sABBagHian, Professor of Mechanical Engineering. Ph.D., University of Oklahoma.

David H. sABrio, Instructor in English. Ph.D., University of South Carolina.

Thomas H. sADLER, Instructor in Mathematics. Ph.D., University of Alabama.

Patricia J. sAILOR, Professor of Home Economics; Director, School of Home Economics. Ph.D., Ohio State University.

BetSy A. sTUllen, Assistant Professor of Education (Department of Administrative and Foundational Services). M.S., Colorado State University.

John W. sT Martin, Associate Professor of Architecture. M.Arch., Yale University.

G. Ellis sandoz, JR., Professor of Political Science. Dr. oec. publ., University of Munich (West Germany).


Paul L. SanzenBAck, Associate Professor of Social Welfare. M.S.W., Tulane University.

husain sARKAR, Assistant Professor of Philosophy. Ph.D., University of Minnesota.

Gloria B. sasek, Assistant Professor of English. M.A., Radcliffe College.

Lawrence A. sasek, Professor of English. Ph.D., Harvard University.

Daniel G. satterlee, Instructor in Poultry Science. M.S., LSU.

Charles W. Sauls, Associate Professor of Education (Department of Curriculum and Instruction). Ph.D., LSU.

Nancy G. saxon, Assistant Professor of Music. M.M., LSU.

Charles A. SchexnAyd er, Professor of Botany; Chairman, Division of Botany. Ph.D., LSU.

Judith A. schiebout, Associate Professor of Geology; Director, Museum of Geosciences. Ph.D., University of Texas at Austin.

PresTiess Schilling, Professor of Experimental Statistics; Head, Department of Experimental Statistics. Ph.D., Oregon State University.

Ralph L. W. Schmidt, Professor of Education (Department of Curriculum and Instruction); Dean, University College. Ph.D., University of Nebraska.

Dan R. scholz, Professor of Mathematics; Professor of Mechanical Engineering. Ph.D., Washington University (Mo.).

Leila O. Schroeder, Associate Professor of Finance. J.D., LSU; M.S.W., LSU.

Gregory J. schuFreider, Assistant Professor of Philosophy. Ph.D., University of California at Santa Barbara.

Alvin R. Schupp, Professor of Agricultural Economics and Agribusiness. Ph.D., University of Missouri.

Robert L. schurFrazn, Associate Professor of Foreign Languages. Ph.D., University of North Carolina at Chapel Hill.

Robert W. schwartz, Associate Professor of Chemistry. Ph.D., University of Illinois at Chicago Circle.

Edward C. schwitzer, Associate Professor of English. Ph.D., Cornell University.

James P. schwitzer, Associate Professor of Marine Sciences; Associate Professor of Education; Associate Professor in Office of Sea Grant Development. Ed.D., Auburn University.

Lawrence L. sciacchetano, Instructor in Health; Professor of Physical and Recreation Education; Head Coach, Wrestling. M.A., University of Georgia.

Loren C. scott, Professor of Economics; Associate Director, Division of Research (College of Business Administration). Ph.D., Oklahoma State University.

Billy M. seay, Professor of Psychology. Ph.D., University of Wisconsin—Madison.

Joseph E. sedberry, JR., Professor of Agronomy. Ph.D., LSU.

Cameron L. seger, Professor of Veterinary Science. D.V.M., Colorado State University; Diplomate, American College of Veterinary Pathology.

Hasan sehitoGl, Assistant Professor of Mechanical Engineering. Ph.D., University of Illinois.

Joel selbin, Professor of Chemistry. Ph.D., University of Illinois.

hussein m. selim, Assistant Professor of Agronomy. Ph.D., Iowa State University.

Buddhaev sen, Professor of Chemistry. Ph.D., University of Calcutta (India).

Barun K. sen gupta, Professor of Geology. Ph.D., Indian Institute of Technology (India).

Saeed A. shad, Instructor in Mathematics. Ph.D., Kansas State University.

Robert F. shambaugh, Professor of Music; Acting Dean, School of Music. Ed.D., University of Colorado.

Simon M. shane, Associate Professor of Epidemiology and Community Health. Ph.D., Cornell University.
WILLIAM N. SHARPE, JR., Professor of Mechanical Engineering. Chairman, Department of Mechanical Engineering. Ph.D., Johns Hopkins University.

ELIZABETH L. SHAW, Instructor in English. M.A., Northwestern State University.

ELOISE L. SHEFFIELD, Instructor in Office Administration. M.Ed., LSU.

LEO H. SHELBY, Assistant Professor of Education (University Lab School). M.Ed., LSU.

ROBERT SHELDON, Associate Professor of Journalism. M.A., University of Michigan, Ann Arbor.

THOMAS C. SHELTON, Assistant Professor of Mechanical Engineering. Ph.D., University of Texas at Austin.

DANIEL P. SHER, Associate Professor of Music. M.S., Julliard School of Music.

O. LEE SHIFLET, Assistant Professor of Library Science. Ph.D., Florida State University.

JASON C. SHIH, Associate Professor of Architecture. Ph.D., Duke University.

CHARLES L. SHILLING, Associate Professor of Forestry and Wildlife Management. Ph.D., Texas A&M University.

PETER K. O. SHIRES, Assistant Professor of Veterinary Surgery; Veterinary Clinician. M.S., Auburn University.

EDWARD S. SHIRLEY, Associate Professor of Philosophy. Ph.D., University of Massachusetts.

CHARLES R. SHORT, Professor of Veterinary Pharmacology; Veterinary Diagnostic Toxicologist (Department of Veterinary Physiology, Pharmacology, and Toxicology); Coordinator, Central Research Labs. D.V.M., Ohio State University; Ph.D., University of Missouri—Columbia.

DARWIN H. SHRELL, Professor of English; Chairman, Department of English. Ph.D., University of Texas at Austin.

RONALD J. SIEBELING, Professor of Microbiology. Ph.D., University of Arizona.

LAURENCE SIEGEL, Professor of Psychology; Chairman, Department of Psychology. Ph.D., University of Pennsylvania.

JEANNE M. SIEVERT, Instructor in English. M.A., University of Southwestern Louisiana.

HOWARD P. SILVER, Instructor in English. M.F.A., University of Iowa.

ROCHELLE B. SIMMS, Assistant Professor of Education (Department of Human Development). Ed.D., University of Alabama.

ROLAND P. SIMON, Instructor in English. M.A., University of Southwestern Louisiana.

LEWIS P. SIMPSON, William A. Read Professor of English Literature; Coeditor, Southern Review. Ph.D., University of Texas at Austin.

BARBARA B. SIMS, Instructor in English. M.A., Memphis State University.

NAN C. SINGLETON, Associate Professor of Home Economics; Associate Dean. University College. Ph.D., LSU.

MARY J. SIRIFRIDGE, Associate Professor of Philosophy. Ph.D., Ohio State University.

FREDERICK E. SISTLER, Assistant Professor of Agricultural Engineering. Ph.D., University of Wisconsin—Madison.

JEFFREY SKOLNICK, Assistant Professor of Chemistry. Ph.D., Yale University.

JANE M. SLEDGE, Instructor in English. M.A., LSU.

LEWIS I. SMART, Professor of Animal Science. Ph.D., Kansas State University.

CHARLES M. SMITH, Assistant Professor of Entomology. Ph.D., Mississippi State University.

CHARLES W. SMITH, Associate Professor of Vocational Agricultural Education; Assistant Director, School of Vocational Education. Ph.D., Pennsylvania State University.

FELICE SMITH, Instructor in English. M.A., University of New Orleans.

FRED M. SMITH, Professor of Education (Department of Administrative and Foundational Services); Director, Graduate Division of Education. Ed.D., LSU.

JOHN W. SMITH, Instructor in English. M.A., University of Southwestern Louisiana.

KENNETH R. SMITH, Associate Professor of Philosophy. Ph.D., Yale University.

ROBERT F. SMITH, Professor of Economics. Ph.D., University of Illinois.

VIRGINIA W. SMITH, Associate Professor of Social Welfare. Ph.D., St. Louis University.

FONUT T. SOTHERS, Professor of Architecture. M.S., Ohio University.

HAROLD D. SNIDER, Instructor in Military Science.

THERON G. SNIDER, III, Assistant Professor of Veterinary Pathology. D.V.M., Ph.D., Texas A&M University.

JOHNIE P. SNOW, Associate Professor of Plant Pathology and Crop Physiology. Ph.D., Texas A&M University.

HENRY L. SNYDER, Professor of History; Dean, College of Arts and Sciences. Ph.D., University of California at Berkeley.

JANETTE M. SNYDER, Assistant Professor of Social Welfare. M.S.W., University of California at Berkeley.

MARION D. SOCOLOFSKY, Professor of Microbiology; Chairman, Department of Microbiology. Ph.D., University of Texas at Austin.

PETER A. SODERBERGH, Professor of Education (Department of Curriculum and Instruction); Dean, College of Education. Ph.D., University of Texas at Austin.

ROBERT R. SOILEAU, Associate Professor of Extension Education; Associate Specialist (Cooperative Extension Service). Ph.D., LSU.

THOMAS C. SPARKS, Assistant Professor of Entomology. Ph.D., University of California at Riverside.

ZOE ANN SPARCS, Assistant Professor of Home Economics. Ed.D., University of Arkansas.

LOUISE E. SPECK, Assistant Professor of Music. M.M., Ohio State University.

FRED M. SPEED, Professor of Experimental Statistics. Ph.D., Texas A&M University.

ELIZABETH H. SPENCE, Instructor in English. Ph.D., University of Denver.

J. DAVID SPICELAND, Associate Professor of Accounting. Ph.D., University of Arkansas.

HERNDON SPILLMAN, Assistant Professor of Music. D.Mus., Indiana University.

RUDY S. SPRAYCAR, Assistant Professor of English. Ph.D., Cornell University.

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Department of Agronomy

J. PRESTON JONES, Professor; Head of Department. Ph.D., University of Arizona.*

H. ROUSE CAFFEY, Professor; Vice Chancellor (Administration); Director of International Programs. Ph.D., LSU.*

*Also listed as member of instructional faculty.

CURTIS E. GREEN, Assistant Professor. Ph.D., Oklahoma State University.*

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JAMES W. TURNER, Professor; Head of Department. Ph.D., Oklahoma State University.*

THOMAS D. BIDNER, Professor. Ph.D., Michigan State University.*

DOYLE CHAMBERS, Professor; Vice Chancellor; Director, Agricultural Experiment Station. Ph.D., Oklahoma State University.

DONALD E. FRANKE, Professor. Ph.D., Texas A&M University.

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LEWIS I. SMART, Professor. Ph.D., Kansas State University.*
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DONALD M. THRASHER, Professor. Ph.D., Purdue University.

Department of Biochemistry

R. SCOTT ALLEN, Professor; Head of Department. Ph.D., Iowa State University.*
WALTER A. DEUTSCH, Assistant Professor. Ph.D., Texas A&M University.*
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JERRY B. GRAVES, Professor; Head of Department. Ph.D., LSU.*
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L. DALE NEWSOM, Boyd Professor. Ph.D., Cornell University.*

*Also listed as member of instructional faculty.

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NELSON E. JOODON, Consulting Professor. Ph.D., LSU.
WILLIAM O. McILRATH, Professor (USDA). Ph.D., Oklahoma State University.
MAURICE F. MILLER, Assistant Professor. M.S., Oklahoma State University.
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EMMETT WILSON, JR., Assistant Professor. B.S., University of Southwestern Louisiana.

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WAYNE C. PORTER, Assistant Professor. Ph.D., North Carolina State University.

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JAMES M. CANNON, Associate Specialist (Horticulture). Ph.D., LSU.
BONNIE G. CARTER, Associate Specialist (Family Resource Management). M.S., LSU.
LOYD A. CARVILLE, Specialist (Farm Management). M.S., LSU.

JERRY C. COCHRAN, Associate Specialist (Family Life). M.S., University of Tennessee.

OLEN D. CURTIS, Specialist (Agronomy). Ph.D., LSU.

ELSIE J. CYRUS, Associate Specialist (Home Economics). M.S., Southern University.

FRANCIS W. DAIGLE, Associate Specialist (House Furnishings). M.S., LSU.

DOUGLAS L. DEASON, Associate Specialist (Agricultural Engineering). Ph.D., Purdue University.

LAWRENCE W. de la BRETONNE, JR., Extension Assistant (Marine Advisory Program). M.S., LSU.

CLINTON G. DEPEW, Associate Specialist (Horses). Ph.D., Virginia Polytechnic University.

GEORGIANA K. DIXON, Associate Specialist (Family Life). M.H.E.E., University of Oklahoma.

SANFORD B. DOOLEY, Associate Specialist (Resource Development). Ph.D., Purdue University.

JOHN P. DUKE, Specialist (Extension Education). Ed.D., LSU.

BRUCE FLINT, State Agent (Personnel and Programs). Ph.D., University of Wisconsin.

JAMES F. FOWLER, Associate Specialist (Wildlife). Ph.D., LSU.

ARLENE M. FULTON, Assistant Specialist (Family Life). M.S., Stout State University.

HELEN P. FUTRELL, Associate Specialist (Clothing). M.S., LSU.

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EDWARD W. GASSIE, Specialist (Extension Education); Professor, Head, Department of Extension and International Education. Ph.D., LSU.

GERALD G. GIESLER, Associate Specialist (Farm Management). Ph.D., LSU.

JOHNNY R. GORDON, Associate Specialist (Editorial). M.Ed., LSU.

WILLIAM A. HADDEN, Specialist (Agricultural Engineering). M.S., LSU.

KELLETT HATHORN, State Club Agent. M.S., University of Wisconsin.

V. H. HEBERT, Associate Specialist (Editorial). M.S., LSU.

LEWIS C. HILL, Specialist (Agronomy). M.S., LSU.

BETTY J. HODGKINS, State Agent (Home Economics). Ph.D., Florida State University.

TED R. HOLMES, Specialist (Editor). M.S., LSU.

JOHN W. IMPSON, Associate Specialist (Pesticide Safety). Ph.D., LSU.

LAWRENCE E. JOHNSON, Associate Specialist (Marketing). Ph.D., University of Mississippi.

J. H. JONES, JR., Program Analyst and Professor, Department of Extension and International Education. Ph.D., University of Kentucky.

BOBBY L. KILPATRICK, Specialist (Dairying). M.S., LSU.

THOMAS J. KOSKE, Assistant Specialist (Horticulture). Ph.D., University of Georgia.

PHILLIP A. LEWIS, JR., Assistant Specialist (Resource Development). Ed.D., LSU.

SARA B. LINDER, Specialist; EFNEP Coordinator. M.S., University of Tennessee.

ALDEN MAIN, Associate Specialist (Forestry). Ph.D., Auburn University.

PHILLIP H. MASSEY, Specialist (Editorial). M.A., LSU.

JAMES A. MAZILLY, Assistant to Livestock Show Manager. B.S., LSU.

LOWELL L. MCCORMICK, Division Leader (Plant Science). Ph.D., Auburn University.

E. R. McCORY, District Agent (Field Operations). M.S., LSU.

BOBBIE L. McFATTER, Associate Specialist (Family Resource Management). Ed.D., LSU.

C. O. MCKERLEY, Associate State Agent & Manager of Livestock Shows. M.S., LSU.

WILLIAM F. McKNIGHT, Specialist (Poultry). Ph.D., LSU.

EDYTHE A. McLEAN, Specialist (Editorial). M.A., LSU.

W. A. MEADOWS, Specialist (Horticulture). Ph.D., LSU.

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MICHAEL W. MOODY, Associate Specialist (Seafood Technology). Ph.D., LSU.

WALTER C. MORRISON, III, Associate Specialist (Agriculture). Ph.D., Oklahoma State University.

C. J. NAQUIN, State Club Agent. Ph.D., LSU.

STEVEN S. NICHOLSON, Specialist (Veterinary Science). D.V.M., Texas A&M University.

MERRIBEL J. OTTENHOUSE, Specialist (Marketing). M.S., Texas Woman’s University.


RUTH M. PATRICK, Associate Specialist (Nutrition). Ph.D., LSU.

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DALE K. POLLET, Associate Specialist (Entomology). Ph.D., VPI and SU.

CHARLES W. POPE, Specialist (Animal Nutrition). Ph.D., Michigan State University.

THOMAS E. POPE, Specialist (Horticulture). Ph.D., Ohio State University.

E. EARL PULS, JR., Associate Specialist (Horticulture). Ph.D., University of Missouri.

KENNETH J. ROBERTS, Associate Specialist (Marine Resource Economics). Ph.D., Oregon State University.

NORMA O. ROBERTS, Specialist (4-H). M.S., LSU.

WAYNE ROBICHAUX, Specialist (Recreation). Ph.D., LSU.

GEORGIA SANDERS, Specialist (4-H). M.S., Kansas State University.

BARBARA D. SCHILDE, Specialist (Health & Safety). M.S., LSU.

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ROBERT R. SOILEAU, Associate Specialist (Rural Sociology); Associate Professor (Extension Education). Ph.D., LSU.

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SATISH VERMA, Associate Specialist (Extension Education); Associate Professor, Department of Extension and International Education. Ed.D., LSU.


WILLIAM H. WATERS, Specialist (Dairying). Ph.D., LSU.

KENNETH N. WEGENHOFT, Associate Specialist (Farm Management). Ph.D., Oklahoma State University.

HARRY K. WHITAM, Associate Specialist (Plant Pathology). Ph.D., LSU.


LEODRY WILLIAMS, Associate State Agent & Coordinator for EEO and Civil Rights. Ed.D., LSU.

CARROL WILSON, Specialist (Animal Science). Ph.D., LSU.

BETTY D. WOOD, Associate Specialist (Homemaker Council Coordinator). M.S., LSU.

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RALPH R. BROWN, Associate District Agent (Cenla Area). M.S., LSU.

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F. O. LEVASSUEUR, Area Agent (Horticulture Production & Marketing). M.S.
TERRY L. SHIRLEY, Area Agent (4-H). M.S.
DOROTHY B. BARTON, Associate Area Agent (Nutrition). B.S.

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JACKIE P. MITCHELL, Area Agent (Clothing). M.S.

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<td>Assistant Home Economist. B.S.</td>
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<td>Area Agent (Community Resource Development). B.S.</td>
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<td>Home Economist. M.Ed.</td>
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<td>Area Agent (Livestock). Ph.D.</td>
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</tr>
<tr>
<td>LORRIS M. ROCHE</td>
<td>Associate Home Economist. B.S.</td>
</tr>
<tr>
<td>EVVA Z. WILSON</td>
<td>Associate Home Economist. M.S.</td>
</tr>
<tr>
<td>WEST CARROLL PARISH—Oak Grove</td>
<td></td>
</tr>
<tr>
<td>JESSEE PETERSON</td>
<td>County Agent. M.S.</td>
</tr>
<tr>
<td>S. C. FERGUSON</td>
<td>County Agent. B.S.</td>
</tr>
<tr>
<td>TERRY L. WASHINGTON</td>
<td>Assistant County Agent.</td>
</tr>
<tr>
<td>MYRL W. SISTRUNK</td>
<td>Assistant County Agent. B.S.</td>
</tr>
<tr>
<td>POLLY H. DOLES</td>
<td>Associate Home Economist. B.S.</td>
</tr>
<tr>
<td>Gwendolyn S. Brooks</td>
<td>Assistant Home Economist. B.S.</td>
</tr>
<tr>
<td>ROBERT E. MARTIN</td>
<td>Assistant Area Agent (Cotton Pest Management). M.A.</td>
</tr>
<tr>
<td>WASHINGTON PARISH—Franklin</td>
<td></td>
</tr>
<tr>
<td>AUBREY L. POSEY</td>
<td>County Agent. M.S.</td>
</tr>
<tr>
<td>HENRY HARRISON</td>
<td>Assistant County Agent. B.S.</td>
</tr>
<tr>
<td>SALLY KELTON</td>
<td>Assistant County Agent. M.S.</td>
</tr>
<tr>
<td>IDA E. M. MARTIN</td>
<td>Home Economist. M.S.</td>
</tr>
<tr>
<td>DARLENE H. JONES</td>
<td>Associate Home Economist. B.S.</td>
</tr>
<tr>
<td>EDWARD W. DAYTON</td>
<td>Area Agent (Livestock). Ph.D.</td>
</tr>
</tbody>
</table>

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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 and 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 and Graduate School: Office of Admissions
Graduate Division of Education: Director, Graduate Division of Education
Graduate School of Library Science: Dean, Graduate School of Library Science
School of Social Welfare: Dean, School of Social Welfare
School of Veterinary Medicine: Dean, School of Veterinary Medicine

The following is a selected list of other offices most frequently contacted for information.

Office of Admissions
110 Thomas Boyd Hall • 388-1175

Office of the Dean of Students
311 Thomas Boyd Hall • 388-4423

Office of High School Relations
250 Himes Hall • 388-6652

Office of Housing
149 Graham Hall • 388-5201

International Student Office
International Center
Raphael Semmes Rd. • 388-3191

Junior Division
150 Allen Hall • 388-6822

Measurement and Evaluation Center
160 Allen Hall • 388-1145

Office of Student Aid and Scholarships
202 Himes Hall • 388-3103

Student Government Association
330 Union Building • 388-8727

Office of Student Records and Registration
110 Thomas Boyd Hall • 388-1686