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.

LSU assures equal opportunity for all qualified persons without regard to race, color, religion, sex, national origin, age, handicap, marital status, or veteran’s status in the admission to, participation in, and treatment or employment in the programs and activities which the University operates. Anyone having questions or complaints regarding equal opportunity at LSU should contact the Office of Equal Opportunity Programs, 244 Thomas Boyd Hall, LSU, Baton Rouge, Louisiana 70803 (504-388-6654). Persons believing they have been discriminated against contrary to Federal law are entitled to make an inquiry or file a complaint with: U.S. Equal Employment Opportunity Commission, 601 South Street, New Orleans, Louisiana 70130; or U.S. Department of Education, Office of Civil Rights, 1200 Main Tower Building, Dallas, Texas 75202.
The LSU catalog and bulletin series (USPS 359-070) is published by Louisiana State University and Agricultural and Mechanical College four times a year: once in March, once in May, once in July, and once in September. Second class postage paid at Baton Rouge 70803. Publishing office is LSU Publications, 330 Thomas Boyd Hall, Baton Rouge, Louisiana 70803. Copies of this catalog may be obtained from—and change of address, undeliverable copies, and other mail sent to—Office of Student Records and Registration, 112 Thomas Boyd Hall, LSU, Baton Rouge, Louisiana 70803. The effective date of this catalog is the fall semester of 1982. Louisiana State University and Agricultural and Mechanical College is accredited by the Southern Association of Colleges and Schools. Price: $2 per copy.
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Academic Calendar, 1982-83

FALL SEMESTER

August
14 Dormitories open for women participating in sorority rush
15 Dormitories open for men participating in fraternity rush
17 Dormitories open for students participating in freshman orientation
18-20 Orientation for beginning students
22 Dormitories open for all other students*
23-25 Registration; registration after August 25 only by special permission of student's dean
26 Classes begin

September
3 Final date for adding courses for credit and making section changes
6 Holiday (Labor Day)
17 Final date for dropping courses without receiving a grade of "W"

October
1 Final date for applying for undergraduate degrees to be awarded at fall semester commencement
8 Final date for dropping courses or resigning from the university without receiving a grade of "WA," "WB," "WC," "WD," or "WF"
11-15 Midsemester examination period
20 Midsemester grades due in Office of Student Records and Registration
25 Preregistration for spring semester begins

November
2 Preregistration for spring semester ends
15 Final date for resigning from the University and/or dropping courses
24 Thanksgiving holidays begin at 10:00 p.m.
29 Classes resume at 7:30 a.m.
### Academic Calendar, 1982-83

#### December
- 3-8 Dead week—no meetings, social activities, athletic events, or other extracurricular activities which require student participation will be scheduled
- 8 Classes end
- 9 Concentrated study day
- 10-17 Final examination period
- 21 Fall semester commencement, 9:30 a.m.

#### SPRING SEMESTER

##### January 1983

<table>
<thead>
<tr>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Dormitories open for students participating in freshman orientation</td>
</tr>
<tr>
<td>11</td>
<td>Dormitories open for all other students*</td>
</tr>
<tr>
<td>11</td>
<td>Orientation for beginning students</td>
</tr>
<tr>
<td>12-14</td>
<td>Registration; registration after January 14 only by special permission of student’s dean</td>
</tr>
<tr>
<td>17</td>
<td>Classes begin</td>
</tr>
<tr>
<td>25</td>
<td>Final date for adding courses for credit and making section changes</td>
</tr>
</tbody>
</table>

##### February

<table>
<thead>
<tr>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Final date for dropping courses without receiving a grade of “W”</td>
</tr>
<tr>
<td>14-15</td>
<td>Holiday (Mardi Gras)</td>
</tr>
<tr>
<td>16</td>
<td>Classes resume at 7:30 a.m.</td>
</tr>
<tr>
<td>22</td>
<td>Final date for applying for undergraduate degrees to be awarded at spring semester commencement</td>
</tr>
</tbody>
</table>

##### March

<table>
<thead>
<tr>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Final date for dropping courses or resigning from the University without receiving a grade of “WA,” “WB,” “WC,” “WD,” or “WF”</td>
</tr>
<tr>
<td>7-11</td>
<td>Midsemester examination period</td>
</tr>
<tr>
<td>16</td>
<td>Midsemester grades due in Office of Student Records and Registration</td>
</tr>
<tr>
<td>14-22</td>
<td>Preregistration for fall semester</td>
</tr>
<tr>
<td>25</td>
<td>Spring vacation begins at 10:00 p.m.</td>
</tr>
<tr>
<td>26</td>
<td>Dormitories close for spring vacation</td>
</tr>
</tbody>
</table>

##### April

<table>
<thead>
<tr>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Dormitories open after spring vacation</td>
</tr>
<tr>
<td>5</td>
<td>Classes resume at 7:30 a.m.</td>
</tr>
<tr>
<td>18</td>
<td>Final date for resigning from the University and/or dropping courses</td>
</tr>
</tbody>
</table>

##### May

<table>
<thead>
<tr>
<th>Day</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-6</td>
<td>Dead week—no meetings, social activities, athletic events, or other extracurricular activities which require student participation will be scheduled</td>
</tr>
<tr>
<td>6</td>
<td>Classes end</td>
</tr>
<tr>
<td>7</td>
<td>Final examination period begins</td>
</tr>
<tr>
<td>11</td>
<td>Concentrated study day</td>
</tr>
<tr>
<td>16</td>
<td>Final examination period ends</td>
</tr>
<tr>
<td>19</td>
<td>Spring semester commencement, 9:30 a.m.</td>
</tr>
</tbody>
</table>

* Dormitory closing dates at the end of the semester will be announced when the final examination schedule is issued.
Tentative Academic Calendar, 1983-84

SUMMER TERM

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 5</td>
<td>Dormitories open for all students*</td>
</tr>
<tr>
<td>June 6</td>
<td>Orientation for beginning students</td>
</tr>
<tr>
<td>June 7-8</td>
<td>Registration; registration after June 8 only by special permission of student's dean</td>
</tr>
<tr>
<td>June 9</td>
<td>Classes begin</td>
</tr>
<tr>
<td>June 14</td>
<td>Final date for adding courses for credit and making section changes</td>
</tr>
<tr>
<td>June 17</td>
<td>Final date for applying for undergraduate degrees to be awarded at summer term commencement</td>
</tr>
<tr>
<td>July 20-23</td>
<td>Preregistration for fall semester</td>
</tr>
<tr>
<td>July 21</td>
<td>Final date for dropping courses without receiving a grade of &quot;W&quot;</td>
</tr>
<tr>
<td>July 30</td>
<td>Final date for dropping courses or resigning from the University without receiving a grade of &quot;WA,&quot; &quot;WB,&quot; &quot;WC,&quot; &quot;WD,&quot; or &quot;WF&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 4</td>
<td>Holiday (Independence Day)</td>
</tr>
<tr>
<td>July 6-8</td>
<td>Midterm examination period</td>
</tr>
<tr>
<td>July 12</td>
<td>Midterm grades due in Office of Student Records and Registration</td>
</tr>
<tr>
<td>July 15</td>
<td>Final date for resigning from the University and/or dropping courses</td>
</tr>
<tr>
<td>July 29</td>
<td>Classes end</td>
</tr>
<tr>
<td>July 30</td>
<td>Final examination period begins</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 3</td>
<td>Final examination period ends</td>
</tr>
<tr>
<td>August 5</td>
<td>Summer term commencement, 9:30 a.m.</td>
</tr>
</tbody>
</table>

Tentative Academic Calendar, 1983-84

FALL SEMESTER, 1983

Orientation for new students ................................................................. August 17-19
Registration .................................................................................................. August 22-24
Classes begin ................................................................................................ August 25
Holiday (Labor Day) ................................................................................ September 5
Holiday (Thanksgiving) ............................................................................. November 24-25
Classes end .................................................................................................. December 8
Concentrated study day ............................................................................. December 9
Final examination period ........................................................................... December 10-17
Fall semester commencement, 9:30 a.m. ....................................................... December 21

*Dormitory closing dates at the end of the summer term will be announced when the final examination schedule is issued.*
SPRING SEMESTER, 1984

Orientation for new students ................................................. January 10
Registration ................................................................................. January 11-13
Classes begin ................................................................................. January 16
Holiday (Mardi Gras) ................................................................. March 5-6
Spring vacation begins at 10:00 p.m. ......................................... April 13
Classes resume at 7:30 a.m. ...................................................... April 24
Classes end ................................................................................ May 4
Final examination period begins .............................................. May 7
Concentrated study day ......................................................... May 9
Final examination period ends .............................................. May 15
Spring semester commencement, 9:30 a.m .................................. May 18

SUMMER TERM, 1984

Orientation for new students ................................................. June 5
Registration ................................................................................ June 6-7
Classes begin ................................................................................. June 8
Holiday (Independence Day) .................................................. July 4
Classes end ................................................................................ July 27
Final examination period ....................................................... July 30-August 2
Summer term commencement, 9:30 a.m .................................. August 4
Glossary

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

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

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

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

**Audit:** To enroll in a course for no credit.

**Colleges and Schools:** The academic units of the University, administered by deans or directors and staffed by faculty members, which 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.

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

**Elective:** Course chosen by the student, as opposed to required course. The term "elective," without a qualifier, will be understood to be a free elective, chosen by the student at his or her option from all the courses offered by the University for degree credit, with due regard for prerequisites.

**Equivalent:** When used in a course prerequisite (e.g., "Prereq: Socl. 2001 or equivalent"), this term means either credit in a comparable course or adequate preparation by other experience. Determination of equivalency is left to the discretion of individual departments.

**Good Standing:** The 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; students will take the majority of their required courses in this area.

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

Nomatriculated: 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. At LSU, "A" = 4, "B" = 3, "C" = 2, and "D" = 1 quality point.

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

ROTC: The Reserve Officers Training Corps program.

Semester Hour: The unit by which 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.
The University

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

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 define 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

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 1885, 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 in 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, with Col. David F. Boyd as Superintendent. The college building was burned October 15, 1869, and on November 1, 1869, the institution resumed its exercises in Baton Rouge, where it has since remained.

In 1870, the name of the institution was changed to Louisiana State University.

Louisiana State Agricultural and Mechanical College was established by an Act of the Legislature, approved April 7, 1874, to carry out the United States Act of 1862, granting lands for this purpose. It temporarily opened in New Orleans, June 1, 1874, where it remained 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 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 (now the School of Library and Information 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; the Graduate Division of Education, 1970; General College, 1974; and the College of Design, 1979 (originally founded in 1965 as the School of Environmental Design). In 1977, the Herbert 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 eight 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 Herbert 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 Vice-President for Academic Affairs.
ORGANIZATION

The chief administrative officer of LSU is the Chancellor; directly responsible to the Chancellor are the Vice-Chancellor for Academic Affairs and Provost, the Vice-Chancellor for Administrative Services, the Vice-Chancellor for Alumni Affairs, the Vice-Chancellor for Business Affairs, the Vice-Chancellor for Research, 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: 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, General College, Junior Division, and the School of Music.

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

Post-baccalaureate and professional divisions at LSU are the Graduate School, Graduate Division of Education, School of Library and Information 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.”

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 of English Literature and the Nicholson Professorship of Mathematics are comparable to the distinguished Boyd Professorship. Other awards for outstanding achievement are the Alumni Professorships, Campanile Professorships, Distinguished Faculty Fellowships, and the annual Distinguished Research Master Award. Recognized authorities in various fields are appointed as consulting professors or visiting lectures.

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 133 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

College of Agriculture
Bachelor of Science
Bachelor of Science in Forestry

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

College of Business Administration
Bachelor of Science

College of Chemistry and Physics
Bachelor of Science

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

College of Education
Bachelor of Fine Arts
Bachelor of Music Education
Bachelor of Science

College of Engineering
Bachelor of Engineering Technology
Bachelor of Science in Agricultural Engineering
Bachelor of Science in Chemical Engineering
Bachelor of Science in Civil Engineering  
Bachelor of Science in Electrical Engineering  
Bachelor of Science in Engineering Science  
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 Science in Sugar Engineering

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

**School of Music**  
Bachelor of Music

### 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
- Master of Science in Hydraulic Engineering
- Master of Science in Industrial Engineering

#### 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 175 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 1981-82 totaled $151,397,007. These funds came from:

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>State appropriations</td>
<td>$73.1*</td>
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</tr>
<tr>
<td>Federal appropriations</td>
<td>.3</td>
<td>.2%</td>
</tr>
<tr>
<td>Student fees</td>
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<td>13.5%</td>
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<tr>
<td>Sales and services (educational)</td>
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<td>1.0%</td>
</tr>
<tr>
<td>Sales and services (noneducational)</td>
<td>9.8</td>
<td>6.5%</td>
</tr>
<tr>
<td>Sales and services (auxiliary enterprises)</td>
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The 1981-82 Baton Rouge campus dollar was budgeted for:

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<th>Amount</th>
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<tbody>
<tr>
<td>Instruction</td>
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</tr>
<tr>
<td>Research</td>
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<td>Public service</td>
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<td>Academic support</td>
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<td>Institutional support</td>
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<td>Operations and maintenance</td>
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<td>Debt service and transfers</td>
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<tr>
<td>Auxiliary enterprises</td>
<td>30.4¢</td>
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</tbody>
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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.

*Expressed in millions of dollars.
University libraries at LSU contained approximately 1,844,656 volumes as of June 30, 1981. 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 4 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 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 journals, and reserve materials for business courses above the 3000 level. The School of Library and Information Science Library is located in Coates Hall.

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, Southern history, petroleum engineering, plant pathology, micropaleontology, ornithology, and various aspects of crawfish life, biology, and culture.

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 of 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 of numerous Louisiana subjects. The Louisiana Room is 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 4 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 publications of the United Nations and the Department of Energy (formerly the Atomic Energy Commission). As a depository for National Aeronautics and Space Administration reports, the Middleton Library has thousands of scientific reports on microform. In 1981, the Library was designated an official depository for U.S. Government patents.

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

The Southern Review, now in its second series, is an internationally known literary magazine under the coeditorship of Professors Donald E. Stanford and Lewis P. Simpson. Founded in 1935 by Cleanth Brooks, Robert Penn Warren, Albert Erskine, and Charles Pipkin, The Southern Review publishes poetry, fiction, book reviews, and critical articles with emphasis on modern literature and the literature and culture of the South. Issues appear in January, April, July, and October. Subscriptions are $7 for one year. Manuscripts and subscription orders should be addressed to The Southern Review, Drawer D, University Station, Baton Rouge, Louisiana 70893.

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, the Freeport Chemical Company Lectureship in Chemical Engineering, 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 from the Organization for Tropical Studies, North American Office, P.O. Box DM, Duke Station, Duke University, Durham, North Carolina 27706 (Central American address: Organizational 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 50 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. LSU faculty members, 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.

Audubon Sugar Institute

The Audubon Sugar Institute, begun in 1887 in New Orleans as the Audubon Sugar School, has an international reputation as a center for training, research, and service for the cane sugar industry.

The 350 ton/day raw sugar factory, about one-tenth the size of a typical Louisiana factory, a unique facility for a college campus, was built on its present site in 1925. While the factory is no longer run for commercial sugar production, it provides facilities for research, instruction, and special test work. Research is dedicated to finding new processes and products that will ultimately benefit the cane sugar industry. The activities of the institute are administered by the College of Engineering.

An undergraduate curriculum leading to the degree of B.S. in Sugar Engineering is offered through the Department of Chemical Engineering (see the curriculum listing under the College of Engineering). No separate graduate degree is offered in sugar technology. The student obtains an M.S. or Ph.D. degree in a traditional discipline such as chemical engineering, mechanical engineering, or chemistry. Training in sugar technology is achieved through research specialization and by the student’s involvement in the technical activities of the institute.

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 effect 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 field 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 for Environmental Studies

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.
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 culture, development, geography, history, and political and social change, with special emphasis on Mexico, Central America, the Caribbean area, and Brazil.

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. 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. A 16 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 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, which is 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. Thus, it serves as a focal point for an array of plant and environmental studies ranging from basic plant identification to studies of entire floras, the structure of vegetation or an ecosystem, and work in such areas as detailed plant chemistry. 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 Featherman in 1869 and is one of the oldest in the South. It is listed in the world index of the International Association for Plant Taxonomy and is affiliated with the Association of Systematic Collections.

**Museum of Geoscience**

The Museum of Geoscience, located in the Geology Building, contains 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 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, the American Association of Museums, and the Association of Science-Technology Centers. The Museum of Geoscience Associates organization supports museum activities and provides lectures and field trips for members.

**Museum of Natural Science**

The Museum of Natural Science, located in Foster Hall, is open daily to the general public. The museum’s exhibits consist of nine major dioramas that depict with meticulous accuracy the flora and fauna of selected scenes from North America, representatives of 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 over 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 and serves as an important aid in teaching 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, about five miles from campus, 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. 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's 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 objet 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 in a total of 21 sports, more than any other school in the Southeastern Conference. LSU competes with teams from major universities in NCAA competition in football, baseball, and wrestling; NCAA Division-I levels in basketball, track (cross country, indoor, and outdoor), golf, tennis, swimming, gymnastics, softball, and volleyball.

Athletic facilities include a football stadium with a seating capacity of 76,092, four lighted practice football fields and one practice baseball field, a lighted metric track with a Chevron 400 surface and seating accommodations for 5,200, a lighted baseball complex seating 2,500, and 18-hole golf course with a lighted driving range, 12 lighted tennis courts with an elevated grandstand, 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 facility, seats 14,327 and is the home court for the LSU men's and women's basketball teams, men's and women's gymnastics, wrestling, and volleyball. The Field House provides a 220-yard track facility; a gymnastics practice room 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 a competitive indoor track facility and serves as a practice area for varsity football, baseball, track, and tennis teams, another important use of the Field House is for teaching, organized recreational activity, and leisure-time activity for the University community under the supervision of the School of Health, Physical Education, Recreation, and Dance.

LSU has twice hosted the National College Athletic Association's track and field championships. In addition, the basketball NCAA mideast regionals and first rounds have been played in the Assembly Center. The Association of Intercollegiate Athletics for Women’s National Tennis Championships have been held at LSU on two occasions and the NCAA and the AIAW have staged their national gymnastics championships in the Assembly Center.

LEISURE SERVICES

The Office of Leisure Services (formerly Intramurals, Campus Recreation, and Club Sports) functions under the auspices of the Office of Student Affairs. This office provides all members of the University community with access to participation and involvement in a variety of leisure sports activities. To meet the diverse needs and interests of the University community, a multifaceted recreational sports program is offered which includes intramural sports, drop-in recreation, special interest activities, and club sports. In addition, a wide variety of leisure sports equipment is available for use on a check-out or rental basis.

The intramural sports program provides various levels of competition in more than 46 different sports through leagues, tournaments, and meets. A balanced program of team, meet, dual, and individual sports is offered throughout the year. Some of these activities are flag football, basketball, softball, volleyball, racquetball, handball, tennis, badminton, swimming, track, golf, and floor hockey. The drop-in recreation program provides space for individuals who desire to participate informally in a sport. The special interest activities program is designed to serve particular recreational interests and needs. Programs vary in structure from self-motivated fitness activities to organized events. The sports club program, comprised of 14 active clubs, provides opportunities for exercise, recreational and social fellowship, competition both on and off campus, and learning new and improving existing skills. Some of the active clubs include rugby, soccer, fencing, water skiing, karate, and volleyball. The Office of Leisure Services also maintains records, establishes schedules, develops and interprets rules and policies, and supplies officials as needed.

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, an audio-visual aids service unit, produces radio and television feature material in the form of audio and video tapes for broadcast throughout Louisiana and the adjoining region. The Director of Public Relations also serves as Administrator of the Rural Life Museum.

THE LSU UNION

The LSU Union, through it 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. Auditorium facilities include a 333-seat Colonnade and 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, card-playing, and a limited snack bar. The University operates a computer terminal (I/O) room on the mezzanine level.

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 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 main 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 cashier's office on the central mezzanine corridor. The 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 when the office is closed so that mail may be picked up from post office boxes. A post office box may be rented for the school year or for one or more semesters. Post office boxes may be shared only with brothers and/or sisters having the same last name. 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 University-owned apartment complexes on Nicholson Drive and West Roosevelt Street.
Admission to the University

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 should be addressed as follows:

Undergraduate Divisions, 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 an application 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, housing, and financial aid are made separately through the Office of Admissions, the Office of Housing, and the Office of Student Aid and Scholarships. Acceptance of an application for admission does not entitle an applicant to University housing or financial aid; nor is the acceptance of a housing application, the assignment to a room, or the award of financial aid a commitment of admission to the University. For further information, see "Application for Residence Hall Accommodations," and "Scholarships and Awards."

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 $20 (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. (See also “International Applicants" in this same section.) These service fees are assessed to cover the cost of processing applications. 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 resident status are determined in accordance with University regulations and are based on evidence provided in the application for admission and related documents. Resident status is determined by the Office of Admissions after the completed application for admission has been submitted. (See also “Resident Status” in the “University Regulations” section of this catalog.) Resident status is not determined for students auditing only or for students enrolled in correspondence courses of the Division of Continuing Education.

**CATEGORIES OF ADMISSION**

The following are categories of admission to degree and nondegree programs.

*Early Admission*: Exceptional high school students who have not completed their secondary school work.

*New Freshmen*: Applicants who have never attended any college or university.

*Transfer Students*: Applicants who have attended one or more colleges or universities. In certain cases, applicants who have been in the LSU System may be classified as transfer students. See appropriate sections.

*Former LSU Students and Transfers from within the LSU System*: Students previously enrolled on the Baton Rouge campus who have interrupted their residence for one or more semesters (not including summer term) and students transferring from other campuses within the LSU System.

*Summer-Term-Only Students*: Applicants who are students at other colleges or universities and who desire to attend LSU for the summer term only.

*Program for Adult-Special Students (non-degree program)*: Applicants who have not participated in formal education for at least three years, who wish to enroll for part-time study, and who are not currently seeking a degree. Acceptance into this program entitles a student to enroll in undergraduate credit courses for which he or she has adequate background.

*International Students*: Applicants on student visas and/or applicants who have a non-U.S. educational background.

**EDUCATIONAL REQUIREMENTS AND ADMISSION PROCEDURES**

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.

**Freshmen**

All freshmen enroll in Junior Division which deals primarily with first-year students—their courses of study and their guidance during 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 curriculum 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.

High school students should submit their applications as early as possible in their senior year of high school. Applicants who have already graduated from high school should submit applications as early as possible in the semester preceding the date admission is desired.

THE AMERICAN COLLEGE TEST

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 outlines procedures for registration. Test centers are located throughout the U.S., with tests administered on five specific dates established by the testing service each year. Scores are reported to the colleges and universities as requested by the student.

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 with other data 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 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.

LOUISIANA RESIDENTS

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 submitted applications. Students who have not attended another college or university and who are graduates of unapproved high schools may be considered for admission on the quality of their performance on the ACT. 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. Applicants should request high schools to send transcripts of their complete scholastic records to the Office of Admissions as soon as possible after completion of their high school course of study.

NON-LOUISIANA RESIDENTS

Enrollment of students from states other than Louisiana is limited to those 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 Board, appropriateness of proposed field of study in relation to the applicant's apparent ability, principal-counselor recommendations, and motivation. Although ACT scores may not be used for decisions on admission, all freshmen must submit ACT scores before they may register in certain required freshman courses. Nonresidents who meet the above requirements must also have an overall average of 2.00 on any college work attempted prior to the proposed date of enrollment at LSU.

Students should request that their high school send comprehensive transcripts as soon as grades for the seventh semester are available. Exceptionally well-qualified students may submit transcripts at the end of the junior year of high school. Applicants will be notified concerning acceptance soon after applications and transcripts are received. Accepted applicants are required to furnish final records immediately following high school graduation.

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 judgement, the student is qualified), and the 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.

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 administered by the College 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.

PRE-ENROLLMENT COUNSELING AND PREREGISTRATION FOR ENTERING FRESHMAN

Early applicants who qualify for admission 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 Students

An undergraduate student with a satisfactory record from an accredited college or university is eligible to apply for admission to LSU as a transfer student. Students desiring such admission should submit an application and transcripts as early as possible in the semester preceding the date admission is desired. Eligibility for admission cannot be determined until the application and complete, official transcripts from each college or university attended have been received. Each college or university attended must be listed on the application form, and official transcripts must be 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 this University.

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

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.") 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 a grade-point average of less than 1.75 may be allowed to enroll in remedial courses (courses numbered below 1000) 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,” 1 quality point; “F” and “WF,” no quality points. All courses taken (including repeated and unresolved incomplete 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 within the LSU System.

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

ACCEPTANCE OF CREDIT FROM OTHER COLLEGIATE INSTITUTIONS

Evaluations of credits from other institutions are made by the Office of Admissions. These evaluations are not made until the student's complete application and all official transcripts from each college and university attended are received. In general, credit earned in colleges and universities accredited by regional accrediting associations which by its nature prepares students to continue in baccalaureate programs is given full value. Transfer credit will be allowed for a maximum of 21 semester hours scheduled in any one semester. Only work which is acceptable by the offering institution as baccalaureate degree credit is recognized. Credit earned in two-year technical or terminal degree programs which, when completed, results in an “associate in applied sciences” diploma may be accepted to the extent that the courses parallel baccalaureate degree work here, as determined by the appropriate department and subject to the normally applicable conditions. Students who have earned one-half of the 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 resident 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 at other regionally accredited colleges and universities and listed on an official transcript is recognized in the same way that residence credit earned in those institutions is accepted. Such credit is 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 Board should have examination scores sent directly to the Office of Admissions for evaluation. (See also “Advanced-Standing Program” in the “University Regulations” section of this catalog.) Credit is not awarded for work or travel experience except as validated by appropriate advanced-standing examinations at LSU.

Credit allowed by the Office of Admissions for transfer is, in all cases, subject to review by the student's college with reference to its applicability toward a particular degree, and the student is expected to conform to all requirements of the chosen degree program. Questions relating to the evaluation of 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 LSU STUDENTS AND TRANSFER STUDENTS FROM WITHIN THE LSU
SYSTEM
Former 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 campus of the
LSU System or at another institution must have official records sent from these institutions before
an admission decision can be made. These transcripts are required 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.

SUMMER-TERM-ONLY APPLICANTS

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

PROGRAM FOR ADULT-SPECIAL STUDENTS (PASS)

Adults who wish to schedule undergraduate part-time study, who have not been enrolled in high
school or college during the past three calendar years, and who do not plan to work toward a
degree, may be permitted to schedule courses for credit without submitting the usual scholastic
credentials needed to determine admissibility to the University. An adult-special student may
schedule as many as nine semester hours in a semester and may earn as many as 24 semester hours
of credit in this status. Students who decide 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 this program are used in determination of admissibility as
regular students and are included on the official transcript. Students in this program who are over
65 years of age do not pay the University fee.

INTERNATIONAL APPLICANTS

International students with superior scholastic records and English proficiency, as demon-
strated by acceptable scores on recognized tests, 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 Board, or the Prueba de Aptitud Academica; appropriateness of proposed field of study in relation to the applicant's general ability; and letters of recommendation.

Applicants whose native language is not English are required to submit a score of 500 or better on the Test of English as a Foreign Language (TOEFL), 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 08541.

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

Applications for the fall semester are not accepted after July 1, for the spring semester after 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 $20—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.

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

**ACADEMIC BANKRUPTCY**

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

Student 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 $2100 in addition to fees, room, and board per school year. An out-of-town student living off campus can expect to spend at least $4300 per school year for rent, food, clothing, laundry, cleaning, books and school supplies, transportation, entertainment, and incidentals. Married students spend approximately $9700. Total first-year expenses for sororities, including some one-time fees, average $640; subsequent yearly costs are approximately $500. Monthly dues average $20. Costs for fraternities average $610 for the first year, which includes some one-time fees. Subsequent years average $450, not including room and board. Monthly dues for fraternities average $50.

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

**Full-Time Fees**

<table>
<thead>
<tr>
<th>Louisiana residents:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduates, graduates, social welfare,</td>
<td>$342</td>
</tr>
<tr>
<td>Veterinary medicine,</td>
<td>$552</td>
</tr>
<tr>
<td>Nonresidents:</td>
<td></td>
</tr>
<tr>
<td>Undergraduates,</td>
<td>$857</td>
</tr>
<tr>
<td>Graduates, social welfare,</td>
<td>$642</td>
</tr>
</tbody>
</table>

**Room Rent***

| Dormitories, | $323-612 per semester |
| University-owned apartments, | $162-219 per month |
| Fraternity houses, $320 (average) per semester |
| Sorority houses, $400 (average) per semester |

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

<table>
<thead>
<tr>
<th>Part-time</th>
</tr>
</thead>
<tbody>
<tr>
<td>$215</td>
</tr>
<tr>
<td>$545</td>
</tr>
<tr>
<td>330</td>
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<td>$410</td>
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<tr>
<td>312</td>
</tr>
<tr>
<td>$265</td>
</tr>
<tr>
<td>$255</td>
</tr>
<tr>
<td>105</td>
</tr>
</tbody>
</table>

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

APPLICATION FEE

A nonrefundable application fee of $20 (check or money order) must accompany the application for admission. In addition to this fee, a nonrefundable late application fee of $15 is charged students who file applications after December 1 for the spring semester, after May 1 for the summer term, and after July 1 for the fall semester. The University is not responsible for cash sent in the mail.

STUDENT HEALTH SERVICE FEE

All full-time students are required to pay a student health service fee at registration. This fee entitles the student to use of the Student Health Service 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 to the Student Government Association; admission to various athletic events; and membership in the LSU Union. Student-imposed allocations in the regular semester University fee include a $5 mass transit fee and a $1 "The Phone" fee for each semester, plus a $3 Organizations Relief Fund fee in the spring semester only. A $3 student-imposed mass transit fee is assessed in the summer term.

Regular Semester—Undergraduate Students

<table>
<thead>
<tr>
<th></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><strong>Resident students:</strong></td>
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</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$ 10</td>
<td>$ 10</td>
</tr>
<tr>
<td>University fee</td>
<td>312</td>
<td>255</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$342</td>
<td>$265</td>
</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$ 10</td>
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<tr>
<td>University fee</td>
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<td>255</td>
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<tr>
<td>Student health service fee</td>
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</tr>
<tr>
<td>Nonresident fee</td>
<td>515</td>
<td>440</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$857</td>
<td>$705</td>
</tr>
</tbody>
</table>

*Effective fall 1982, the mass transit fee was increased from $5 to $12 for a regular semester and from $3 to $6 for the summer term. Fees paid by full-time students will be adjusted accordingly. This increase was approved too late to be reflected in the fee schedules.
### Regular Semester—Graduate School, Graduate Division of Education, and Social Welfare Students

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME*</th>
<th>PART-TIME</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>9 or more hrs.</td>
<td>7-8 hrs.</td>
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<tr>
<td><strong>Resident students:</strong></td>
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<tr>
<td>Registration fee (nonrefundable)</td>
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<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>312</td>
<td>240</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>20</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$342</td>
<td>$250</td>
</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
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<td>$10</td>
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<tr>
<td>University fee</td>
<td>312</td>
<td>240</td>
</tr>
<tr>
<td>Student health service fee</td>
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<td>0</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>300</td>
<td>230</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$642</td>
<td>$480</td>
</tr>
</tbody>
</table>

Graduate students registering for "exam only" will be assessed a $50 fee. A field practice fee of $130 per course must be paid by all students enrolled in Social Welfare 5505, 5506, 5605, and 5606.

### Regular Semester—Veterinary Medicine Students

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME*</th>
<th>PART-TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>all students are full-time</td>
</tr>
<tr>
<td><strong>Resident students:</strong></td>
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<tr>
<td>Registration fee (nonrefundable)</td>
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<td>University fee</td>
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<td></td>
</tr>
<tr>
<td>Student health service fee</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$552</td>
<td></td>
</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
<td>all students are full-time</td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>522</td>
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<td>Student health service fee</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Nonresident fee (see below)</td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$552</td>
<td></td>
</tr>
</tbody>
</table>

A microscope fee of $40 per semester is assessed each student during Year I and Year II of the professional curriculum. Nonresident students are accepted only from contract states. Such students pay the same fees as residents of Louisiana, with respective states paying an additional increment as specified by contract.

*Effective fall 1982, the mass transit fee was increased from $5 to $12 for a regular semester and from $3 to $6 for the summer term. Fees paid by full-time students will be adjusted accordingly. This increase was approved too late to be reflected in the fee schedules.*
### SUMMER TERM FEES

**Summer Term—Undergraduate Students**

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME*</th>
<th>PART-TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 or more hrs.</td>
<td>4-5 hrs.</td>
</tr>
<tr>
<td><strong>Resident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>175</td>
<td>140</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$195</td>
<td>$150</td>
</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>175</td>
<td>140</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>265</td>
<td>195</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$460</td>
<td>$345</td>
</tr>
</tbody>
</table>

**Summer Term—Graduate School, Graduate Division of Education, and Social Welfare Students**

<table>
<thead>
<tr>
<th></th>
<th>FULL-TIME*</th>
<th>PART-TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6 or more hrs.</td>
<td>4-5 hrs.</td>
</tr>
<tr>
<td><strong>Resident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>175</td>
<td>140</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$195</td>
<td>$150</td>
</tr>
<tr>
<td><strong>Nonresident students:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>175</td>
<td>140</td>
</tr>
<tr>
<td>Student health service fee</td>
<td>10</td>
<td>0</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>150</td>
<td>100</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$345</td>
<td>$250</td>
</tr>
</tbody>
</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>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>140</td>
<td>140</td>
</tr>
<tr>
<td>Camp fee</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$157</td>
<td>$157</td>
</tr>
</tbody>
</table>

### Geology Field Courses (Geology 3666 and 7666)

<table>
<thead>
<tr>
<th></th>
<th>UNDERGRADUATE</th>
<th>GRADUATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration fee (nonrefundable)</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>University fee</td>
<td>140</td>
<td>140</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>260</td>
<td>150</td>
</tr>
<tr>
<td>Camp fee</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>$417</td>
<td>$307</td>
</tr>
</tbody>
</table>

### Fees

*Effective fall 1982, the mass transit fee was increased from $5 to $12 for a regular semester and from $3 to $6 for the summer term. Fees paid by full-time students will be adjusted accordingly. This increase was approved too late to be reflected in the fee schedules.*
### Three-Week Summer Short Courses—Resident Students

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
<th>Social Welfare</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>One Course:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>(nonrefundable)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$100</td>
<td>$100</td>
<td>$100</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$110</strong></td>
<td><strong>$110</strong></td>
<td><strong>$110</strong></td>
</tr>
<tr>
<td><strong>Two Courses:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>(nonrefundable)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$160</td>
<td>$160</td>
<td>$160</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$170</strong></td>
<td><strong>$170</strong></td>
<td><strong>$170</strong></td>
</tr>
<tr>
<td><strong>Three Courses:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>(nonrefundable)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$190</td>
<td>$190</td>
<td>$190</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$200</strong></td>
<td><strong>$200</strong></td>
<td><strong>$200</strong></td>
</tr>
</tbody>
</table>

### Three-Week Summer Short Courses—Nonresident Students

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
<th>Social Welfare</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>One Course:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>(nonrefundable)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$100</td>
<td>$100</td>
<td>$100</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>$110</td>
<td>$55</td>
<td>$55</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$220</strong></td>
<td><strong>$165</strong></td>
<td><strong>$165</strong></td>
</tr>
<tr>
<td><strong>Two Courses:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>(nonrefundable)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$160</td>
<td>$160</td>
<td>$160</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>$190</td>
<td>$95</td>
<td>$95</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$360</strong></td>
<td><strong>$265</strong></td>
<td><strong>$265</strong></td>
</tr>
<tr>
<td><strong>Three Courses:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration fee</td>
<td>$10</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>(nonrefundable)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University fee</td>
<td>$190</td>
<td>$190</td>
<td>$190</td>
</tr>
<tr>
<td>Nonresident fee</td>
<td>$265</td>
<td>$150</td>
<td>$150</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$465</strong></td>
<td><strong>$350</strong></td>
<td><strong>$350</strong></td>
</tr>
</tbody>
</table>

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. This fee is included in the University fee, as listed above.

**SPECIAL FEES**

**Audit Fees**

Fees for auditing courses are in accordance with the “Regular Semester” and “Summer Term” fees. Maximum fee is $322 for the regular semester and $185 for the summer term. Fees for students enrolling for combined credit and audit work will be assessed in accordance with total hours scheduled.
Graduation Fees

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

Motor Vehicle Registration Fee

All students (full-time, part-time, night 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 Office of Traffic Records. A registration fee will be charged for each vehicle registered. The exact amount of this fee will be published each year in the Traffic and Parking Regulations issued by the Office of Administrative Services.

Fees for Special Courses

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

Other Fees

1. Students registering for “degree only” pay no registration fee. (Such students must register through the Office of Student Records and Registration 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, $20 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 $20 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 international students are required to participate in the LSU Student Insurance Program and must have coverage for repatriation, or demonstrate that they have adequate insurance coverage other than that available through the University. Students enrolled in the School of Veterinary Medicine are required to have sickness and accident insurance coverage through enrollment in the University-sponsored plan, or to have proof of participation in an equal or better insurance program.

PAYMENT OF FEES

All fees and other University charges are due at the beginning of the semester or summer term. To facilitate payment of fees, it is recommended that the student use a cashier’s check, money order, or personal check. In unusual circumstances, deferred payment may be requested for part of the fees.
FEE EXEMPTIONS FOR PERSONS OVER 65

According to the provisions of Act 525 of the 1975 Louisiana legislature, persons over 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, nonresident fee, and student health service fee will be made on the following basis upon official withdrawal of the student:
   a. before classes begin, 90 percent;
   b. during the first 10 days of classes* (first five days in summer term), 75 percent;
   c. from day 11 through day 24 of classes (day 6 through day 12 in summer term), 50 percent;
   d. from day 25 of classes (day 13 of summer term) to the end of the semester, none.
2. The registration fee is not refundable.
3. No refunds for resignations will be processed for at least six weeks after registration.
4. No refunds will be made to anyone who owes the University. Student-initiated resignations will not be completed until all money owed to the University is paid.
5. Field service and transportation fees will be refunded on an individual basis upon recommendation of the department concerned.
6. Reductions and increases of fees resulting from student schedule changes will be refunded or charged in accordance with the above schedule.
7. All full-time students who become part-time students after the last day to receive refunds will continue to be eligible for all student activity privileges.
8. Students in good standing at the University, registered in any semester or summer term, who volunteer for military service or who are called to active duty in the armed services before the day midsemester examinations begin will have the University fee, nonresident fee, and student health service fee refunded. Students in good standing at the University who volunteer for military service, or who are called to active duty in the armed services after midsemester examinations begin, will be refunded 50 percent of the University fee, nonresident fee, and student health service fee.

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

SCHOLARSHIPS AND AWARDS

The scholarships and awards listed here are 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.

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

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

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

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.

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

*Agricultural Mechanization Outstanding Senior Award (1:$100) Outstanding SR majoring in agr. mechanism; awarded by Dept. of Agr. Engr.

College of Agriculture Honor Student Award (1:$810) Incoming SO with highest GPA in college; awarded by Col. of Agr.

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

ASA Outstanding Sophomore Award (1:$300) Outstanding SO in Col. of Agr.; 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 Scholaristic Award (3:$100) Awarded to outstanding, active club member; awarded by Block and Bridle Club.

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

CAMECO Award in Agricultural Engineering See College of Engineering.

*Capital Bank and Trust Company Agricultural Scholarship in Honor of Dr. Jack R. Jones (1:$1000) JR/SR/GR in Col. of Agr.; Louisiana resident; financial need; 3.0 GPA; strong interest in banking profession; awarded by Col. of Agr.

**Charles Stewart Churchill Memorial Scholarship (8:$600) 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 Dore Memorial Scholarship in Agriculture (2:$800) SO/GR 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/GR in animal science, dairy production, or pre-veterinary medicine; SO must have 2.50 GPA, others 3.00 GPA; awarded by Col. of Agr.


*Murphy J. Foster Scholarship (1:varies) UG in agriculture pursuing study in sugar cane/soybeans; 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.

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*Funded through LSU Foundation.
**Sponsored by LSU Alumni Federation.
Sponsored curriculum; sponsored by Col. of Agr.

*Joseph W. Freeland International Agriculture Scholarship (1:$500) 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:$400) Outstanding JR/SR in Dept. of Agro. majoring in crop science or closely related field; awarded by SA&SCom. on recommend. of Dept. of Agro.

Mr. & Mrs. Norman M. Haigh Scholarship for Vocational Agricultural Education (1:$300) UG in voc. agr. educ.; awarded by Dept. of Voc. Agr. Educ.

Mr. & Mrs. Norman M. Haigh Scholarship for Vocational Home Economics Education (1:$300) UG in voc. home econ. educ.; awarded by Sch. of Home Econ.

*Hopkins Memorial Award (1:varies) Awarded to needy student maintaining at least 2.00 gpa in forestry curriculum; awarded by Sch. of For. and Wild. Mgt.

Hubbard Farms Poultry Science Scholarship (2:$500) UG and GR majoring in poultry science; awarded by Col. of Agr.

Industrial and Technical Education Alumni Association Scholarship (I: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 Cowbelles—Emily Fairchild Memorial Scholarship (1:varies) JR in Col. of Agr.; 2.5 gpa; financial need; parent or grandparent must be member of the Louisiana Cattlemen’s Association; awarded by Col. of Agr.

*Sponsorship of Forestry and Wildlife Management—Louisiana Land & Exploration Scholarship (1:$600) SR in forestry and wildlife option; awarded by Sch. of For. and Wild. Mgt.

Louisiana Rural Rehabilitation Corporation Scholarship (10:$700) Entering FR planning to major in agricultural area or home econ.; member of La. farm family; 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) JR/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:$750) 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.

Ralsdon Purina Scholarship (1:$650) Outstanding UG in agriculture; 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.

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

*Tolle-Fredrikson Scholarship (2:$600) SO/JR/GR in Sch. of Home Econ. majoring in family life and environment and/or voc. home economics educ.; 2.0 gpa; financial need; awarded by Scholarship Committee of Sch. of Home Econ.

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

Louis Windham Memorial Scholarship See College of Engineering.

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.

**Sponsored by LSU Alumni Federation.

College of Arts and Sciences

*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.

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

Curriculum Scholarship (3:$250) Outstanding students in news-editorial, broadcast journalism, and advertising curriculum; awarded by Sch. of Jour.
*Margaret Dixon Journalism Award ($1,000 and silver bowl)* SR woman journalism student; media achievement; awarded by Sch. of Jour.

*Monica Donegal Memorial Scholarship ($1,000)* Financial need is primary consideration; awarded by Dept. of Geol.

**Robert Ewing Scholarship ($2,000 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 ($1,000)** Outstanding student in French; awarded by Dept. of French & Italian.

**LaCroix Award ($1,000)** Outstanding student in French; awarded by Dept. of French & Italian.

**Louisiana Land & Exploration Scholarship in Geology ($1,800)** SR/GR in geology; awarded by Dept. of Geol.

**Charles P. Mansfield Memorial Scholarship ($1,500)** SO/GR in journalism with 2.50 gpa in journalism courses; awarded by Sch. of Jour.

**Emil W. Mihretz Scholarship in Speech Pathology and Audiology ($1,000)** SR in speech pathology and audiology; awarded by the Speech and Hearing Clinic Committee on Scholarships and Financial Assistance.

**MESA Petroleum Company Scholarship ($1,000)** SO/GR in geology curriculum; awarded by Dept. of Geol.

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

**Police Jury Association of Louisiana Scholarship ($1,025)** SR in pol. sci.; La. resident; graduate of La. high school; awarded by Dept. of Pol. Sci.

**Corinne L. Sauvage 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 Fren. & Ital. and Dept. of Span. & Port.

**Laurice Stistrunk Memorial Scholarship ($1,000)** SO in pet. engr. or geology curriculum; awarded by Dept. of Geol. and SA&SCom.

**Mayne Steele and Lester J. Williams Grant ($1,300)** UG who has demonstrated outstanding reporting for "The Daily Reveille"; awarded by Sch. of Jour.

**Sternberg Award** ($2,000 per book award) SO in Col. of A&S Div. 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.

**College of Business Administration**

Arthur Anderson & Co. Award ($1,000) Most active member of Beta Alpha Psi, awarded by Dept. of Accct.

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

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

**Fred A. Blanche Memorial Scholarship ($1,000)** SR/GR in risk and insurance curriculum showing outstanding academic qualifications and financial need; awarded by Col. of Bus. Adm.

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

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

**L.A. Champagne Memorial Scholarship ($1,800)** SO accounting major; 2.70 gpa; awarded by Col. of Bus. Adm.

**Ted F. Dunham Scholarship ($2,500)** JR from Winn Parish entering Col. of Bus. Adm.; applicants must have a minimum ACT score of 18.

**David Harper Garland Memorial Scholarship ($1,000)** UG in bus. adm.; academic ability; financial need; awarded by Scholarship Committee of Col. of Bus. Adm.

**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 Accct.

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

**Russell Lobdell Memorial Scholarship ($1,000)** SO with outstanding academic qualifications, financial need, and demonstrated qualities of leadership; graduate of a Baton Rouge high school; awarded by Col. of Bus. Adm.

**Louisiana Consumer Finance Association Award ($2,500)** JR/GR; 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 (Baton Rouge Chapter) Award ($1,250)** JR/GR in acct.; awarded by Dept. of Accct.

**James M. Owen Memorial Scholarship (varies: $200)** UG showing promise of attaining high personal and professional standards of Dr. Owen; awarded by Dept. of Accct.
Peat, Marwick, Mitchell & Co. Award (1:$200) Outstanding student in basic auditing course; awarded by Dept. of Accr.

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

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

*R. T. Reckling Memorial Scholarship (1:$440) JR in international trade and finance; financial need; 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 Accr.

Society of Louisiana CPA's (Baton Rouge Chapter) Scholarship (1:$220) SO in acct.; awarded by Dept. of Accr.

Society of Louisiana Certified Public Accountants Medal (1) Medal presented to top ranking graduating SR in acct.; awarded by Dept. of Accr.

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

Arthur Young & Company Award (1:$200) Outstanding student in advanced accounting course; awarded by Dept. of Accr.

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:$900) 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:$575 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. with 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.

I. H. Gottlieb Memorial Scholarship (1:$400) UG majoring in chem. or chem. engr.; restricted to La. residents; awarded by Dept. of Chem. and Dept. of Chem. Engr., in alternate years.

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


*Adrian Virginia Lazarus Memorial Scholarship (1:varies) UG in computer science; 3.00 gpa; awarded by Col. of Chem. & Phys.

*W.W. Tison Memorial Scholarship (1:$590) 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:$700) 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) 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) 5th yr. student with 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; recipient has 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 $150) 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 $150) Outstanding JR/SR in residential interior design; awarded by Sch. of Arch.

*Helen Adams Reich Memorial Scholarship (1:varies) Preference to nonresident UG in land. arch.; awarded by Sch. of Land. Arch.

*Funded through LSU Foundation.
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

AWARD

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

SCHOLARSHIPS

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

*Association of Classroom Teachers of East Baton Rouge Parish Endowed Scholarship (1:varies) JR/SR in education curriculum; graduate of EBR high school; awarded by Col. of Educ.

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

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

College of Engineering

AWARDS

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

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

ALCOA Foundation (1:$1000) UG in engineering; awarded by dean, Col. of Engr.

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

*Allied Chemical Scholarship (4:$1000) 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.

Amoco Foundation Scholarship for Minorities (1:$700) FR in pet. engr.; renewable; awarded by Dept. of Pet. Engr.


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

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

Chevron Scholarship in Chemical Engineering (1:$1000; 1:$500) JR/SR in chem. engr.; awarded by Dept. of Chem.

Chevron Oil Company Scholarships in Petroleum Engineering (3:$1500) UG in pet. engr.; U.S. citizen or permanent immigration visa; awarded by Dept. of Pet. Engr.

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


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

Dow Chemical Scholarship in Chemical Engineering (2:$1000) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Eastman Kodak Scholarship (1:$1000) UG in chem. engr.; awarded by Dept. of Chem. Engr.

FLUOR Ocean Services Scholarship (1:$2000) JR/SR female or minority student in chemical, civil, electrical, or mechanical engineering; awarded by Col. of Engr.


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

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

Global Marine Drilling Company Scholarship (1:$4000) SO in mech., elec. or pet. engr. pursuing a career in the petroleum industry; renewable; awarded by Col. of Engr. every three years.

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.

Instrument Society of America Scholarship (1:$1000) JR/ SR in chem., elec. or mech. engr.; awarded by Col. of Engr.

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

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

*Fund through LSU Foundation.
• Kaiser Aluminum Scholarship in Mechanical Engineering (varies $1000) UG in mech. engr.; minority preference; 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 & Exploration Scholarship in Civil Engineering (1:$600 JR/1:$600 SR) JR/SR in civil engineering; awarded by Dept. of Civil Engr.

• Louisiana Land & Exploration Scholarship in Petroleum Engineering (1:$600 JR/1:$600 SR) JR/SR in petroleum engineering; awarded by Dept. of Pet. 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 Minority Scholarship (1:$1500) UG in acct., geol. or pet. engr.; awarded by Chancellor.

Marathon Oil Foundation Scholarship (3:$1000) UG in pet. engr.; renewable; apply to Dept. of Chem. Engr.

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

Monsanto Company Scholarship in Chemical Engineering (1:$750) FR in chem. engr.; awarded by Dept. of Chem. Engr.

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


Boykin and Mable Pegues Scholarship (varies $varies) UG in engr. awarded by Col. of Engr.


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

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

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

Stauffer Chemical Company Scholarship in Chemical Engineering (3:$750) JR/SR in chem. engr.; with preference to children of Stauffer employees; awarded by Dept. of Chem. Engr.

Sun Oil Company Scholarship (1:$750) Minority or female UG in pet. engr.; U.S. citizen; awarded by Dept. of Pet. Engr.


Tenneco Oil Company Scholarship in Chemical Engineering (1:$1000; 1:$750) UG in chem. engr.; awarded by Dept. of Chem. Engr.

Tenneco Oil Company Scholarship in Petroleum Engineering (2:$500) UG in pet. engr.; awarded by Dept. of Pet. Engr.

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


*Walk, Haydel, and Associates Scholarship (2:$1500) SR in chem., civil, elec. or mech. engr.; awarded by Col. of Engr.

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

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.

General College

*Associated Builders and Contractors Scholarship in Construction (1:$1000) SO/JR/SR in construction; academic ability and financial need; awarded by Dept. of Const.

*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, Tangipahoa, Washington, St. Tammany; awarded by Dept. of Const.

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

AGC Education and Research Foundation Scholarship (15-20:$1000) High school seniors, FR/SO/JR college; enrolled, or planning to enroll, 4-yr. degree program in construction and/or civil engr.

*Baton Rouge Chapter National Electrical Contractors Association Scholarship (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.

*Funded through LSU Foundation.
*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 curriculum; full-time; at least 3.00 gpa.

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

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

National Association of Women in Construction Scholarship (1;$500) Full-time female student recommended by professor; 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.

*Louis and Lena Peranio Scholarship (1;$500) Students in general studies curriculum with 36 hours in residence in the division prior to receiving award; at least 2.50 gpa; awarded by Div. of Gen. Studies & Com. Ed.

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

Junior Division

*AGC Construction Industry Advancement Program of Baton Rouge and Vicinity Scholarship (1;$600) FR showing academic ability; ACT composite score of 22-28; financial need; interest in the field of construction; awarded by JD.

*Elain 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.

*Junior Division—Louisiana Land & Exploration Scholarship (1;$1200) FR; awarded by JD.

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

School of Music

AWARDS

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

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

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

Tiger Marching Band Award (varies;varies) Every Tiger Marching Band member eligible for cash service award at end of each fall semester; amount varies with student’s classification and previous band experience.

*Funded through LSU Foundation.

ANNUAL SCHOLARSHIPS

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

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

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

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

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

Galasso-Hermann Scholarship (Pi Kappa Lambda) 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 bands.

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

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

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

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

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

ENDOWED SCHOLARSHIPS

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

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

*Dr. Michael A. Galasso Memorial Scholarship (1;varies) UG incoming violin student; awarded by annual competition.

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

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

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

Frank C. Page Memorial Scholarship (1;varies) UG/GR music major; awarded by dean, Sch. of Music.

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

*Barrett and Mae Stout Memorial Scholarship (1;varies) SR music student; most distinguished gpa in music theory and literature; awarded by Sch. of Music.
Other Scholarships and Awards

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 $350 per regular semester and $175 per summer term) UG/GR/professional student; awarded by Board of Supervisors member and President of LSU System.

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

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

Nathaniel M. Caffee 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:$300) 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; 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.

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:$684) Entering FR from EBR Parish high school; upper 50% of class; awarded by SA&SCom.

Foreign Student Undergraduate Nonresident Honor Award (5:$1030) International 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 Student Honor Award (13:$270) Based on scholastic record; awarded on recommendation of dean of college in which student is enrolled.

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

*James M. Koenecke Memorial Scholarship (1:$500) Entering FR; La. high school graduate; awarded by SA&SCom.

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

**LSU Alumni Federation Scholarship (Greater Washington, D.C., Chapter) (1: 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: $1030 plus stipend) Entering FR, resident of state other than La.; awarded by SA&SCom.

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 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.

*Mattie 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: $800) 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: $930) Outstanding nonresident UG; awarded by SA&SCom.

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

Pasquale Porcelli Undergraduate Scholarship (1:$500) Advanced UG; awarded by Dept. of Math.

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

ROTC Scholarship See section below.

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*Funded through LSU Foundation.

**Sponsored by LSU Alumni Federation.
Gertrude Bott Saucier Scholarship (35:$400) Entering FR; awarded by SA&SCom.

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 Div. of Academic Serv. 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.

*Edna Tate and Harry Halbedel Scholarship Fund (1:$500) UG needing financial assistance; awarded by SA&SCom.

*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.

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

*Funded through LSU Foundation.
**Sponsored by LSU Alumni Federation.

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 125 academically superior Louisiana high school seniors to take part in its most prestigious scholarship program. Scholarships valued at $4000 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.

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, student health service fee, textbook expenses, laboratory and associated fees, and also includes a tax-free allowance of $100 each month during the period the student is in school and on scholarship status. (All students who enroll in the last two years of the Air Force ROTC curriculum receive this $100 per month allowance regardless of their scholarship status.) Both male and female high school students are eligible for the four-year
scholarship program providing they make application prior to December 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), three and one-half year, or three-year scholarships. Sophomores who are in or intend to enter Air Force ROTC may apply for two and one-half year or two-year scholarships. These scholarships are available to students on a merit basis for a variety of professional, engineering, scientific, and technical studies at the undergraduate level. Scholarship winners in pre-health, 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, student health service fee, books, laboratory fees, other educational expenses, and $100 per month subsistence allowance for up to 10 academic months each year the scholarship is in effect.

Scholarships may be awarded for one or 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

The National Competition Navy ROTC Scholarship Program is designed to provide 4, 3, or 2 years of financial assistance to outstanding young men and women while they earn their bachelor's degree. NROTC scholarships provide for the University fee, nonresident fee, books, laboratory fees and $100 per month subsistence allowance.

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

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

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

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 six months in principal installments of no less than $30 per month and at an interest rate of 5 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.

**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 $3.35 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 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 students who meet certain qualifications. Loans are made in amounts up to $2500 per year for undergraduate students and up to $5000 per year for graduate and professional students. 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 or credit union in the student's home town area. If the lender 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 Pell Grants, which are awarded directly from federal funds; Supplemental Educational Opportunity Grants (SEOG), which range from $200 to $800 a year; and State Student Incentive Grants (SSIG), which range from $200 to $800 a year. SEOG funds are intended to provide partial financial assistance to students from relatively low-income families. 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 these grants,
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 benefits to students when a parent on whom they are dependent dies or begins receiving Social Security retirement or disability benefits. Qualified persons should contact the nearest office of the Social Security Administration for details.

VETERANS' BENEFITS

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

RESIDENT STATUS

The resident 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 resident 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 resident 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. An international student on a student visa is classified as a nonresident.

Resident 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 resident 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 of this catalog entitled, “Graduate Credit for LSU Seniors.”

Registration of Nonacademic LSU Employees

With approval of the appropriate department head and 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. Education leave is not granted to part-time nonacademic employees.

INTERINSTITUTIONAL PROGRAM WITH SOUTHERN UNIVERSITY

LSU students may take some of their courses at Southern University in Baton Rouge under an expanded and simplified cross-registration program between the two universities. Several degree programs will require that LSU students complete one or more courses at Southern University.

Both full-time and part-time students are eligible. Full-time LSU students pay no additional fees for courses taken at Southern University. 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.

ACADEMIC COMMON MARKET

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

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 through 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 Advanced-Standing 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 resident 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, in courses in which unsatisfactory grades have been earned, or in courses which have been dropped with grades of “WA,” “WB,” “WC,” “WD,” or “WF.”
   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 $20 per course.

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

3. **The Advanced Placement Examination of the College 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 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 the “Fees, Expenses, Scholarships, and Financial Aid” section for a listing of fees for auditing courses.

Change in registration from audit to credit or credit to audit requires permission from the instructor of the course and the student’s dean. Approval for change from audit to credit may take place no later than the final date for adding courses for credit as shown in the academic

*Includes all campuses of the LSU System.
"Calendar." Change from credit to audit may take place no later than the final date for dropping courses or resigning from the University without receiving a grade of "WA," "WB," "WC," "WD," or "WF."

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." The student will initiate the action by means of a 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 form. 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." Resignation is accomplished by obtaining a resignation form from the student's 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.**

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.

*Includes all campuses of the LSU System.
**See item 2, "Grading Systems, Undergraduate Grades," in this same section.
See “course numbering system” 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,” in the “Junior Division” section of this catalog.) Students are also classified as full-time or part-time in accordance with the following provisions.

**Full-Time 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 or the director of the Graduate Division of Education 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 an 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.
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.

*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.
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.

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," "WD" and "WF" 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."

*Includes all campuses of the LSU System.
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 Hebert 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 student’s 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 HPRD ACTIVITY COURSES

The following policies exist for HPRD courses numbered below 1400.

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.
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.

“B" ... (3 quality points per semester hour); indicates acceptable but undistinguished work.

“C" ... (2 quality points per semester hour); indicates work of unsatisfactory quality.

“D" ... (1 quality point per semester hour); indicates unacceptable work.

“F" ... (no quality point value); indicates unacceptable work.

“I" ... 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. Only the authorization of the instructor is necessary to assign an “I” grade to a graduate student. An “I” 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 “I” 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.

“W” ... 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 “W” 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) or higher, upward rounding shall occur. If the third figure after the decimal point is less than five (5), it shall be dropped, regardless of what the fourth or subsequent figures may be. Thus, 3.9550 becomes 3.96, and 3.9549 becomes 3.95. 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 those full-time undergraduate students who earn a semester average of at least 3.50 and who have no "I" grades for the semester.

STUDENT ACADEMIC APPEALS

Appeals of final grades must be initiated by the student within 30 days after the beginning of the next regular semester. 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, it is believed that under most circumstances, the meeting will be more productive if only the student and the faculty member are present. If an administrative officer (department chairman, dean, Vice-Chancellor for Academic Affairs) is the faculty member who assigned the grade which is appealed, that officer should recuse himself or herself from the appellate process; his or her place in the procedure will be taken by a faculty member appointed ad hoc by the Vice-Chancellor for Academic Affairs or the Chancellor, as appropriate. If the decision reached requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change.*

2. If the matter is not resolved between the student and the faculty member, and the student wishes to pursue the appeal, he or she shall make a written request to the head of the department in which the course was taught asking for a meeting of the department head, the faculty member, and himself or herself. The faculty member will provide the name of the appropriate department head. The written request should clearly state the purpose of the meeting and should indicate the faculty member's name; however, it should not go into detail as to 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, including the student's dean, of his or her decision in writing. If the decision reached requires change in an official University record, the faculty member must comply with all University regulations and procedures necessary to accomplish the change.*

3. If the student is not satisfied with the decision reached, he or she may appeal to the dean of the college in which the department offering the course is located. The dean's name will be furnished by the department head. Appeals concerning courses numbered 8000 or above should be directed to the dean of the Graduate School. The student's appeal must be in writing on a Student Appeal Form available in department and college offices. The form must contain the following information: (1) a statement of the actions complained of; (2) the relief requested; and (3) a specific statement of the reasons supporting the relief sought. The student may also request that a hearing panel be established to assist in reaching a decision. Upon receipt of the completed Student Appeal Form, the dean must promptly forward copies to the department head and faculty member concerned, who must promptly reply with individual written statements supporting their previous actions. Copies of the written replies must be forwarded to the student. Either may request that a hearing panel be convened.

*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 the student's dean (dean of the college in which the student is enrolled) may request documentation of the facts of the matter to facilitate any decision with respect to approval of the grade change.
When the department head's and faculty member's replies have been received, the dean may take one of the following actions: (a) he or she may decide the question on the basis of the written appeal and the faculty member's and department head's written replies; (b) he or she may meet with all parties concerned, who may be accompanied by advisers if desired, and, after discussion, reach a decision; or (c) he or she may refer the appeal to a hearing panel for their recommendation. If a hearing panel has been requested by the student, the faculty member, or the department head, the dean must convene such a panel.

Hearing panels to consider grade appeals will be appointed by the dean and shall be composed of three faculty members selected by the dean, with no more than two from the same department, and two students appointed by the student president of the college. The dean should designate a chairman for the panel. The panel shall hold a hearing with the department head, the faculty member, and the student, each of whom may be accompanied by an 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, including the student's dean.

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

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

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

**SENIOR COLLEGE SCHOLASTIC REQUIREMENTS**

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

1. 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

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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 the student's dean (dean of the college in which the student is enrolled) may request documentation of the facts of the matter to facilitate any decision with respect to approval of the grade change.
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, “Undergraduate Grades” in this same section. 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 credit earned determine acceptability of the course for degree credit.

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

Students who receive an “F” 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.

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

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.

*Includes all campuses of the LSU System.
of this catalog. Before scheduling correspondence or extension courses, students must 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. The catalog chosen is for use in determining curricular requirements only. 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., accreditating 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 this University* as well as a 2.00 average on their entire college record.
2. Candidates for a bachelor's degree must fulfill a minimum residence requirement of two semesters (or four summer terms), earn at least 30 semester hours of credit at this University*, and meet the residence requirements of their college.
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. This fee is not refundable after the fifth week of classes in a regular semester or the second week of classes in a summer term. Students who have previously paid a diploma fee, but who did not graduate at the expected time, must pay a $20 duplicate-diploma fee.

3. All financial indebtedness to the University* must be cleared prior to graduation.

4. Candidates for degrees are expected to participate in the commencement exercises, unless excused by their dean.

Requirements for a Second Baccalaureate Degree

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

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, and cum laude if the grade-point average is at least 3.70. Students awarded the baccalaureate degree with honors must also have satisfied all additional requirements imposed by their college, school, or department. To be eligible for degrees awarded with honors, candidates must have earned more than 50 percent of their total college credits at LSU 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 this 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.* 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.

*Includes all campuses of the LSU System.
UNIVERSITY DISCIPLINE

The disciplinary powers of LSU are derived from the provisions of the Louisiana Revised Statutes which established the Board of Supervisors with the power to adopt rules and regulations necessary for the government of the University consistent with the purposes for which it was founded and to adopt rules and regulations governing student conduct. LSU, therefore, has a responsibility to protect its educational purposes, and, as a corollary, its community. It follows that the function of its disciplinary powers is to protect its educational purposes 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 due process administrative hearing with the Dean of Students or a hearing before a panel of the Committee on Student Conduct composed of faculty members, students, and administrators.

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

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

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

The Handbook

The students, faculty, and staff of LSU have jointly produced The Louisiana State University Handbook of Rights and Responsibilities in the Student-University Relationship. This Handbook was promulgated by the Office of the Chancellor with the goal of assisting students, faculty, and staff in better understanding the rights and responsibilities of both the student and the University in the student-University relationship. All members of the University community are encouraged to become familiar with this 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 or 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 Education, 330 Independence Avenue SW, Washington, D.C. 20201. Copies of the University’s “Policy Statement” concerning the privacy rights of students may be obtained from the Office of Student Records and Registration.

Directory information is defined as student’s name, local address, and telephone number; student’s home address; date and place of birth; major 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; and the most recent previous educational institution attended by the student.

Students who wish to withhold any information in these categories should complete the appropriate form available from the Office of Student Records and Registration within 10 days after the last day of registration in any term, indicating which items should not be considered
directory information 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.
Student Services and Organizations

HOUSING

Campus housing facilities consist of residence halls for men, residence halls for women, fraternity houses, sorority houses, and University-owned apartments.

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.

University housing is available to all full-time students on a voluntary basis, with specific housing assignments based upon the date of application for University housing and the terms of the housing contract. University housing may be provided to part-time students, as defined by this General Catalog, when space is available.

Application for Residence Hall Accommodations

Application to live in a residence hall must be submitted to the Director of Housing. Students should apply for housing at least 10 months in advance of their enrollment in order to receive the desired accommodations. A form for requesting a residence hall application is included with the application for admission to the University supplied by the Office of Admissions or these forms may be requested directly from the Office of Housing. Acceptance of a residence hall application or assignment to a residence hall 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.

Application for a residence hall 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 reservation fee is required for the spring semester or for a summer term only. A student who cancels a residence hall application prior to July 1 for the fall semester will be charged a $10 processing fee and will receive a refund of $65 of the $75 reservation fee. A student who cancels after July 1 and before August 2 for the fall semester will receive a $10 refund and will forfeit $65 of the reservation fee. Cancellations must be made for the spring semester by December 15 for a refund of the reservation fee.
Those applications for summer term only must be cancelled by May 15 for a refund of the reservation fee. Application for housing for a summer short course must be cancelled one week prior to the beginning of the course. If application is made for the summer term and the fall semester together and the summer reservation is cancelled after May 15, the $25 reservation fee will be forfeited and an additional $25 must be paid in order to have a $75 reservation fee for the fall semester. Acceptance of a reservation fee does not guarantee assignment to a residence hall.

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

Residence Hall Accommodations

Student living quarters are provided for approximately 3500 men and 3800 women in both air conditioned and non-air conditioned residence halls at rates ranging from $323 to $612 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 3.5 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 residence hall. 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.

Residence hall rent is payable at registration. Further information concerning residence hall 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 $162 to $219 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 residence hall on a semester basis. The contract is effective as of the date the student pays fees or defers payment of fees during registration for classes at the start of a semester or summer term. Refund of room rent will be made according to the following guidelines:

1. A student who moves from one space to another in a residence hall or from one residence hall to another will be refunded or charged the difference between the unused prorated portions of rent for the two spaces.

2. A student who moves out of a residence hall without resigning from the University will forfeit rent in an amount equal to the unused prorated portion of rent for the least expensive residence hall space being occupied by students that term. The student will be refunded the difference, if any, between the unused prorated portion of rent for the space he or she is occupying and this least expensive space. No refund will be made after the final date for resigning from the University as listed in this General Catalog.

3. A student who is required to move out of a residence hall for the convenience of the University will receive a refund of the unused prorated portion of rent for the space he or she is occupying.

4. A student who is required to move out of a residence hall as a result of disciplinary action will forfeit the rent and receive a refund, if any, as provided in Item 2 above.

5. If a student resigns from the University with no mitigating circumstances the refund is 75 percent of the unused prorated portion of rent for the space he/she is occupying.
Refunds are handled on an individual basis. For further details, contact the Office of Housing.

BOARD PLAN

Students are offered the choice of a 15-meal-a-week plan (Monday breakfast through Friday dinner, on class days) or a 10-meal-a-week plan (lunch and dinner, or any two of the three daily meals, on a committed basis). The cost of the 15-meal plan is approximately $389 per semester; the 10-meal plan costs approximately $369. The cost of the 15-meal plan during the summer term is approximately $193; the 10-meal plan costs approximately $183. 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.

*Students with less than 30 semester hours of credit who choose to live in University residence halls are required to participate in a University board plan, except as provided below:*

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

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

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 can 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. Cancellation after midsemester will be subject to an assessment of half the unused portion of the board plan charge. No release will be processed once dead week begins.

INTERNATIONAL STUDENT OFFICE

The International Student Office is located in the International Center (Agnes Morris House) on Raphael Semmes Road. The office staff provides advisory services to international students regarding their educational, financial, immigration, personal, and social concerns; it also assists with campus intercultural activities which contribute to the cultural environment of the community. The office coordinates the University's international student services and programs with community organizations, faculty and student groups, and governmental and private agencies. Emergency loans for international students are also administered by this office.

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

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 on Tuesdays and Thursdays as *The Summer Reveille* during summer term. The *Gumbo*, the yearbook, is edited by students and published annually. WPRG is an educational FM radio station operated by students.

**STUDENT ORGANIZATIONS**

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

### Social Organizations for Woman Students

| Alpha Delta Pi       | Chi Omega            | Delta Zeta            | Phi Mu         |
| Alpha Epsilon Phi    | Delta Delta Delta    | Kappa Alpha Theta     | Pi Beta Phi    |
| Alpha Gamma Delta    | Delta Gamma           | Kappa Delta            | Zeta Phi Beta  |
| Alpha Kappa Alpha    | Delta Sigma Theta     | Kappa Kappa Gamma      | Zeta Tau Alpha |
| Alpha Xi Delta       |                      |                       |                |

### Religious Groups

<table>
<thead>
<tr>
<th>Assembly of God</th>
<th>Church of Jesus Christ of Latter Day Saints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baha' Club</td>
<td>Eastern Orthodox Church</td>
</tr>
<tr>
<td>Baptist Student Union</td>
<td>Episcopal University Center</td>
</tr>
<tr>
<td>Campus Crusade for Christ</td>
<td>(St. Alban's Chapel)</td>
</tr>
<tr>
<td>Catholic Student Center</td>
<td>Hillel Foundation (Jewish)</td>
</tr>
<tr>
<td>(The) Chapel on the Campus</td>
<td>Intervarsity Christian Fellowship</td>
</tr>
<tr>
<td>Christian Church</td>
<td>Jehovah's Witnesses</td>
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<tr>
<td>Christian Science Organization</td>
<td>Lutheran Student Center</td>
</tr>
<tr>
<td>Church of Christ</td>
<td>Muslim Student Association</td>
</tr>
<tr>
<td>Church of God</td>
<td>The Navigators</td>
</tr>
</tbody>
</table>

The Navigators
Unitarian Church
United Pentecostal Church
University Baptist Church
University Lutheran Chapel
University Methodist Church
University Presbyterian Church
Uniting Campus Ministry
(Methodist & Presbyterian)
Young Life

### Professional, Honorary, and Miscellaneous Organizations

<table>
<thead>
<tr>
<th>A Cappella Choir</th>
<th>Alpha Beta Alpha (library science)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Society</td>
<td>Alpha Chi Sigma (chemistry)</td>
</tr>
<tr>
<td>African Student Organization</td>
<td>Alpha Epsilon Delta (pre-medical, honorary)</td>
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<tr>
<td>Agricultural Economics Association of Louisiana</td>
<td>Alpha Lambda Delta (freshman, honorary)</td>
</tr>
<tr>
<td>Agricultural Mechanization Club</td>
<td>Alpha Phi Omega (service)</td>
</tr>
<tr>
<td>Agricultural Students Association</td>
<td>Alpha Phi Sigma (criminal justice, honorary)</td>
</tr>
<tr>
<td>A.I.E.S.E.C. (International Association of Economic and Management Students)</td>
<td>Alpha Sigma Lambda (honorary)</td>
</tr>
</tbody>
</table>
Alpha Tau Alpha (agricultural education, honorary)
Alpha Zeta (agriculture, honorary)
(LSU) Amateur Radio Club
American Advertising Federation Collegiate Chapter
American Association of Petroleum Geologists
American Association of Textile Chemists and Colorists
American Chemical Society
American Home Economics Association
American Institute of Aeronautics and Astronautics
American Institute of Architects
American Institute of Chemical Engineers
American Institute of Industrial Engineers
American Institute of Mining, Metallurgical, and Petroleum Engineers
American Marketing Association
American Nuclear Society
American Society of Agricultural Engineers
American Society of Agronomy
American Society of Civil Engineers
American Society for Horticultural Science
American Society of Interior Designers
American Society of Landscape Architects
American Society of Mechanical Engineers
American Veterinary Medicine Association
Angel Flight
Anthropology Club
Army Bengal Raiders
Arnold Air Society
Art Students Association
Asian Studies Society
Associated General Contractors of America
Association for Childhood Education
Association of Computing Machinery
Association of the United States Army
Band
Bengal Bowmen of LSU (archery)
Beta Alpha Psi (accounting)
Beta Chi (biochemistry)
Beta Gamma Sigma (business administration, honorary)
Beta Phi Mu (library science, honorary)
Black United Students
(LSU) Block and Bridle Club
(LSU) Campus Scouts
Ceramic Art Students Association
Chamber Music
Chemistry Graduate Student Council
Chi Epsilon (civil engineering)
Chinese Students Organization
Circle K Club
College Republicans
Collegiate 4-H Club
(LSU) Common Cause Club (service)
CONCERN (Council on Conservation of the Environment)
Council of Exceptional Children
(LSU) Dairy Science Club
(LSU) Dance Theatre
Data Management Association
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
Foreign Language Graduate Student Council
Future Farmers of America
Gamma Iota Sigma (insurance)
Gamma Sigma Delta (agriculture, honorary)
Geography and Anthropology Society
Geology Club
German Club
Graduate Association of Sociology Students
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
Interfraternity Athletic Council
Interfraternity Council
International Association of Students in Economics and Business Management
(LSU) International Law Society
International Student Association
Interfraternity Athletic Council
Iota Sigma (Chlorine Chapter)
Iranian Students Association
Kappa Delta Epsilon (education)
Kappa Delta Pi (education, honorary)
Kappa Kappa Psi (band)
Kappa Phi Kappa (education)
(LSU) Karate Club
La Dine Bouteille (French)
(LSU) Lacrosse Club
Lambda Alpha Epsilon (criminal justice)
Lambda Tau (medical laboratory technology)
Latin American Studies Organization
Lebanese Club
Lebanese Student Association
(LSU) Libertarian Alliance
Linguistics Circle of LSU
Malaysian Students Association
Maranatha
Master of Business Administration Association
Men’s Volleyball Club
Mortar Board (leadership)
Mu Kappa (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
Nucleus
Omicron Delta Kappa (leadership)
Omicron Delta Epsilon (economics)
Omicron Nu (home economics, honorary)
Opera Chorus
Orchestra
Organization of Arab Students
Panhellenic Council
Phi Alpha Delta
Phi Alpha 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 Science Graduate Student Association
Political Science Graduate Student Association
Poultry Science Club
Pre-Law Association
(LSU) Pre-veterinary Club
Prime Time Radio
Psi Chi (psychology, honorary)
(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 Alpha (landscape architecture)
Sigma Lambda Chi (construction, honorary)
Sigma Pi Sigma (physics, honorary)
Sigma Xi (professional)
Soccer Club
Society of American Foresters
Society of Engineering Technicians
Society of Military Engineers
Society of Physics Students
Society of Women Engineers
Sociology Club
Student Athletic Board
Student Louisiana Teachers’ Association
Student International Meditation Society
(LSU) Students for Gay Awareness
Students for Life
Students for Responsible Expression
Supporters of Moslem Student Society
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)
Truth for Palestine
Turkish American Student Association
Ultimate Social Club (frisbee)
University Chorus
University Political Association
(LSU) Women’s Soccer Club
Venezuelan Student Association
(LSU) Veterans’ Association
(LSU) Water Ski Club
Weightlifting Club
West Indian Student Association
(LSU) Wildlife Club
Women in Communication
Women in Law
(LSU) Women’s Rugby Club
(LSU) Women’s Swim Team
Xi Sigma Pi (forestry, honorary)
Young Americans for Freedom
Young Democrats

STUDENT GOVERNMENT:
Residence Hall Association
Student Government Association
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.
For the curriculum in agricultural engineering, see the College of Engineering.
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 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 country 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 relationship 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.

Computer facilities, laboratories, and related research facilities on the Baton Rouge campus 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 international 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, extension education, food science, forestry, horticulture, plant pathology, poultry science, and vocational agricultural education. In addition, master’s degrees are offered in applied statistics, fisheries, forest products technology, home economics, industrial education, vocational home economics education, and wildlife. 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.
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 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**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
<td>1</td>
<td>Agricultural Economics 1098, 2075, 2077</td>
<td>9</td>
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<tr>
<td>Agronomy 1021</td>
<td>3</td>
<td>Agricultural Mechanization 2066</td>
<td>3</td>
</tr>
<tr>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
<td>3</td>
<td>Agronomy 2051</td>
<td>4</td>
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<tr>
<td>Chemistry 1001, 1002</td>
<td>6</td>
<td>Computer Science 1240</td>
<td>3</td>
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<tr>
<td>English 1002</td>
<td>3</td>
<td>Economics 2030</td>
<td>3</td>
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<tr>
<td>Mathematics 1015, 1025; or 1021, 1025; or 1021, 1431</td>
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<td>Horticulture 2050</td>
<td>4</td>
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<td>Zoology 1001, 1002 or Botany 1001, 1002, or Biology 1001, 1002, 1003, 1004</td>
<td>8</td>
<td>Speech 2060</td>
<td>3</td>
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<tr>
<td>Electives or ROTC</td>
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<tr>
<td></td>
<td>34</td>
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<table>
<thead>
<tr>
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<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Accounting 2001; and 2021 or 2101</td>
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<td>Agricultural Economics 4018</td>
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<tr>
<td>Agricultural Economics 4015</td>
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<td>Economics 3500 or 2035</td>
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<td>3</td>
<td>Finance 3200, 3715</td>
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<td>English 2002 or BCOS 2071</td>
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<tr>
<td>Entomology 2001 or Plant Pathology 4000</td>
<td>3</td>
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<tr>
<td>Management 3159</td>
<td>3</td>
<td>Approved basic social sciences electives</td>
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<td>Approved humanities electives</td>
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<tr>
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</tbody>
</table>
CURRICULUM IN AGRICULTURAL ECONOMICS

**TOTAL SEM. HRS.: 135**

**Approved Electives:** AGRICULTURE—6 sem. hrs. must be selected from courses within the college other than agricultural economics courses; ECONOMICS—6 sem. hrs. of economics electives must be 3000-level or above; BASIC SOCIAL SCIENCES—select from American government, American history, comparative economic systems, political systems, and social systems and institutions; 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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<th>SENIOR YEAR</th>
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DEPARTMENT OF AGRICULTURAL ENGINEERING

HEAD: Brown, **Professor**

OFFICE: 149 Agricultural Engineering Building

PROFESSORS: Braud, Cochran, Mayeux, Stipe, Thomas, Wright

ASSOCIATE PROFESSORS: Edling, Sistler, Verma

ASSISTANT PROFESSORS: Baldwin, Bengtson

INSTRUCTOR: McDaniel

**Agricultural Engineering**

For the curriculum in agricultural engineering, see the "College of Engineering," section of this catalog.

**Agricultural Mechanization**

The expanding requirements for food and fiber throughout the world create a 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. Graduates of this curriculum 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.

The agricultural mechanization curriculum 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.
CURRICULUM IN AGRICULTURAL MECHANIZATION

TOTAL SEM. HRS.: 134

FRESHMAN YEAR

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<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
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<td>Management 3159</td>
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SOPHOMORE YEAR

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DEPARTMENT OF AGRONOMY

HEAD: J.P. Jones, Professor

PROFESSORS: Brubacher, Caldwell, Dunigan, Golden, J.E. Jones, Martin, R. Miller, Mondart, Ricaud, Sedberry, Tipton

ASSOCIATE PROFESSORS: Harville, Hoff, B. Miller, Robinson, Selim, Viator

ASSISTANT PROFESSORS: Board, Feagley, Green, Hudnall, Kennedy, Williams

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**

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**CURRICULUM IN CROP SCIENCE**

**TOTAL SEM. HRS.: 134**

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**SENIOR YEAR**

**TOTAL SEM. HRS.: 134**

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**CURRICULUM IN CROP SCIENCE**

**TOTAL SEM. HRS.: 134**

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### Curriculum in Soil Science

**TOTAL SEM. HRS.: 134**

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### DEPARTMENT OF ANIMAL SCIENCE

**HEAD:** Turner, *Professor*

**PROFESSORS:** Bidner, Chambers, Franke, Hembry, Humes, Smart

**ASSOCIATE PROFESSOR:** Godke

**ASSISTANT PROFESSORS:** McMillin, Thompson

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.

### CURRICULUM IN ANIMAL SCIENCE

**TOTAL SEM. HRS.: 134**

<table>
<thead>
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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

 total ............................................................... 33

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/humanities electives ..................................... 6
Electives ............................................................... 11

 total ............................................................... 32

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**DEPARTMENT OF DAIRY SCIENCE**

HEAD: Frye, **Professor**
PROFESSORS: Philpot, Roussel
ASSOCIATE PROFESSORS: Achacoso, Adkinson, Baham, Chandler, Gough, White
ASSISTANT PROFESSORS: Keith, Pankey

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, Ruminology 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, microbiology, etc., provides for a science specialization. With either approach, the student is prepared for positions with milk processors and cooperatives, industry suppliers, related food agencies, various governmental agencies, and educational institutions.

**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, management, marketing, and public relations for commercial work should elect the dairy manufacturing-business option. Those wishing to emphasize the scientific phases and the application of chemistry, biology, and physics for technical control, research, and teaching, should elect the dairy manufacturing-science option.

**FRESHMAN YEAR**

**SEM. HRS.**

Agriculture 1001 ...................................................... 1
Biology 1001, 1002, 1003, 1004; or Botany 1001, 1002 ........................................ 8
Chemistry 1001, 1002; or Chemistry 1201, 1202* ........................................ 6
Dairy Science 1048 ....................................................... 3
English 1002 ................................................................. 3
Mathematics 1015, 1025; or 1021, 1025; or 1021, 1022* ........................................ 6
Electives or ROTC ........................................................... 5

 total ............................................................... 32

**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/humanities electives ..................................... 3
Electives or ROTC ........................................................... 5-7

 total ............................................................... 34
**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**

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<th>SEM. HRS.</th>
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<td>Agronomy 1021, 2051</td>
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<td>Zoology 2153 or Agriculture 2072</td>
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<td>Agricultural mechanization or approved industrial education electives</td>
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**JUNIOR YEAR**

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<td>Dairy Science 2085, 3040, 4043</td>
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<tr>
<td>Management 3159</td>
<td>3</td>
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<tr>
<td>Marketing 3401</td>
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<td>Speech 2060</td>
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**SENIOR YEAR**

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<td>Agricultural Economics 4024 or Agronomy 4052</td>
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<td>Electives</td>
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</table>
### CURRICULUM IN ENVIRONMENTAL HEALTH

**TOTAL SEM. HRS.: 134**

In cooperation with the Louisiana Department of Health and Human Resources, the College of Agriculture and Department of Dairy Science at LSU offer an interdisciplinary course of study to meet the needs of those students who desire basic knowledge in environmental pollution control as related to the applied areas in public health of general sanitation, food quality control, and pollution of natural resources. In addition to a B.S. degree, following completion of the curriculum, students may obtain certification as a Professional Registered Sanitarian in Environmental Health by completing a nine-week internship and examination (after the junior or senior year) under the direction of the Louisiana Department of Health and Human Resources.

**Approved Electives:** Select at least 23 sem. hrs. from Group I and 9 sem. hrs. from Group II or 9 sem. hrs. from Group I and 23 sem. hrs. from Group II. GROUP I (ENVIRONMENTAL): Botany 4046; Chemistry 2251, 4150; Civil Engineering 4120; Environmental Studies 2144, 4149, 4261; Geography 2051, 4014, 4029; Nuclear Science 3411, 4331; Wildlife 4021; Zoology 4153. GROUP II (HEALTH AND FOOD): Dairy Science 4021, 4022, 4081; Entomology 4001; Entomology 4002 or 4003; Food Science 4070, 4075, 4086; Industrial Education 2051, 3064, 4085; Microbiology 4122, 4163; Poultry Science 4004; Zoology 4103.

#### FRESHMAN YEAR

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#### JUNIOR YEAR

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<td>Microbiology 2051</td>
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#### SENIOR YEAR

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<td>Biochemistry 2083 and Chemistry 2060 or</td>
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<td>Chemistry 2261, 2262, 2364</td>
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<tr>
<td>Chemistry 2251, 2252</td>
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<td>Dairy Science 2075</td>
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#### CURRICULUM IN DAIRY PRODUCTION—SCIENCE

**TOTAL SEM. HRS.: 134**

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#### SOPHOMORE YEAR

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<td>Economics 2030</td>
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<td>Chemistry 2251, 2252</td>
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<td>Dairy Science 2075</td>
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<tr>
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</table>
**DEPARTMENT OF ENTOMOLOGY**

**HEAD:** Graves, Professor  
**BOYD PROFESSOR:** Newsom  
**PROFESSORS:** Burns, Clower, Hammond, Oliver, Rolston, Roussel, Steelman  
**ASSOCIATE PROFESSORS:** Boethel, Chapin, Fuxa, Goyer, Johnson, LaFage, Meek, Reagan, Smith. Sparks, Walker  
**ASSISTANT PROFESSORS:** Foil, Riley, Story

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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)**

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<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
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<td>Botany 1001, 1002</td>
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<td>Books and Libraries 1001</td>
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<td>Chemistry 2261, 2262, 2364</td>
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<td>Chemistry 1201, 1202, 1212</td>
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<td>English 2025</td>
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<td>Microbiology 2051</td>
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<td>Entomology electives</td>
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<td>Plant Pathology 4000</td>
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<td>6-8</td>
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</tbody>
</table>
**DEPARTMENT OF ENTOMOLOGY**

**HEAD:** Graves, **Professor**  
**BOYD PROFESSOR:** Newsom  
**PROFESSORS:** Burns, Clower, Hammond, Oliver, Rolston, Roussel, Steelman  
**ASSOCIATE PROFESSORS:** Boethel, Chapin, Fuxa, Goyer, Johnson, LaFage, Meek, Reagan, Smith, Sparks, Walker  
**ASSISTANT PROFESSORS:** Foil, Riley, Story

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**CURRICULUM IN ENTOMOLOGY (SCIENCE)**

| TOTAL SEM. HRS.: 135 |

**FRESHMAN YEAR**

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<td>Mathematics 1021, 1022</td>
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<td>Zoology 1001, 1002</td>
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**SOPHOMORE YEAR**

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**JUNIOR YEAR**

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**SENIOR YEAR**

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CURRICULUM IN ENTOMOLOGY (PLANT AND ANIMAL PROTECTION)
TOTAL SEM. HRS.: 135-137

FRESHMAN YEAR SEM. HRS.
Agriculture 1001 .................................................. 1
Agronomy 1021 or Horticulture 2050 ......................... 3-4
Animal Science 1011 or Dairy Science 1048 or
Poultry Science 1049 ............................................. 3
Books and Libraries 1001 ........................................ 1
Chemistry 1201, 1202, 1212 ...................................... 8
English 1002 .......................................................... 3
Mathematics 1021, 1022 .............................................. 6
Zoology 1001, 1002 .................................................. 8
Electives or ROTC .................................................. 2

35-36

JUNIOR YEAR SEM. HRS.
Agirculture 2072 ..................................................... 3
Botany 4041 ............................................................ 3
Entomology 4005, 4014 .............................................. 7
Microbiology 2051 .................................................... 4
Plant Pathology 4000 ................................................ 3
Zoology 4153 or Botany 4046 ..................................... 3-4
Approved social sciences/humanities electives... 3

34-35

SOPHOMORE YEAR SEM. HRS.
Agricultural Economics 2075 ................................... 3
Agronomy 2051 ........................................................ 4
Botany 1001, 1002 .................................................... 8
Chemistry 2261, 2262, 2364 ..................................... 8
English 2025 ............................................................ 3
Entomology 2001 ...................................................... 3
Electives or ROTC ................................................... 4

33

SENIOR YEAR SEM. HRS.
CPWS 4070 ............................................................. 4
English 2002 ............................................................ 3
Entomology 4001, 4002, 4006, 4012, 4015 .................. 16
Plant Pathology 4001, 4020 ........................................ 7
Approved social sciences/humanities electives... 3

33

DEPARTMENT OF EXPERIMENTAL STATISTICS
HEAD: Schilling, Professor
PROFESSOR: Koonce
ASSOCIATE PROFESSORS: Blouin, Monlezun
ASSISTANT PROFESSORS: Escobar, Geaghan, Icaza, Keith, Mowers, Tracy, Wright
INSTRUCTORS: Babcock, Church

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
HEAD: Mullins, Professor
PROFESSORS: Grodner, Hoskins, Liuzzo, Meyers, Rao, Rutledge
ASSISTANT PROFESSORS: Biede, Hackney

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 2043; and Poultry Science 4004. For business and management emphasis: Accounting 2001; Finance 3201; Management 3159, 4167; and Marketing 3413.
### 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

#### TOTAL SEM. HRS.: 134

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
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<td>Agricultural Economics 2075</td>
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<td>Animal Science 1011</td>
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<td>Agronomy 1021, 2051</td>
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<td>Biology 1001, 1002, 1003, 1004 or Botany 1001, 1002 or Zoology 1001, 1002</td>
<td>8</td>
<td>Chemistry 2261, 2262, 2364 or Chemistry 2060 and Biochemistry 2083, 2084</td>
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<td>Chemistry 1201, 1202, 1212</td>
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<td>Dairy Science 1048, 1049</td>
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<td>English 1001, 1002</td>
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<td>Mathematics 1021, 1022, or 1021, 1025</td>
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<td>Poultry Science 1049</td>
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<th>SEM. HRS.</th>
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<td>Agronomy 4064 or Animal Science 4018</td>
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<td>Animal Science 4010 or Dairy Science 4010 or Poultry Science 4010</td>
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<td>Agricultural economics electives</td>
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<tr>
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<td>Forestry and wildlife management electives</td>
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### DEPARTMENT OF HORTICULTURE

OFFICE: 137 Agronomy-Horticulture Building
TELEPHONE: (504) 388-2158

PROFESSORS: Barrios, Fontenot, Hanchey, Hernandez, Jones, O'Rourke, Stadtherr, Standifer
ASSISTANT PROFESSORS: Blackwell, Boudreaux, Lundergan, Ficha, Sundstrom, Wilson
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.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Agriculture 1001</td>
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<td>Books and Libraries 1001</td>
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<td>Microbiology 2051</td>
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<th>SEM. HRS.</th>
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<td>Agronomy 4052</td>
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<td>Botany 4024</td>
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<td>Entomology 4012</td>
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<td>Entomology 2001</td>
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<td>Horticulture 4021, 4071, or 4086; and 4051, 6083, 4085, or 4096</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>
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<tr>
<td>Agriculture 1001</td>
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<td>Books and Libraries 1001</td>
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<td>Biochemistry 2083</td>
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<td>Botany 1001, 1002</td>
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<td>Chemistry 2060</td>
<td>3</td>
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<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>
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<td>Horticulture 2050</td>
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<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
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<td>Agricultural Mechanization 2094</td>
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<td>3</td>
<td>Agronomy 4052</td>
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<tr>
<td>CPWS 3060</td>
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<td>CPWS 4070</td>
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<tr>
<td>English 2002</td>
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<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</td>
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<td>Approved electives</td>
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<td>Plant Pathology 4000</td>
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<td>Approved electives</td>
<td>5</td>
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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.

CURRICULUM IN INTERNATIONAL AGRICULTURE
TOTAL SEM. HRS.: 134

Approved Electives: 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.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Agriculture 1001</td>
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<tr>
<td>Animal Science 1011 or Dairy Science 1048</td>
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<tr>
<td>Poultry Science 1049</td>
<td>3</td>
</tr>
<tr>
<td>Biology 1001, 1002, 1003, 1004 or Botany 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
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</tr>
<tr>
<td>English 1001, 1002 or English 1004, 1005 and Speech 1051</td>
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</tr>
<tr>
<td>Mathematics 1021, 1022</td>
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<tr>
<td>Electives or ROTC</td>
<td>2</td>
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<td><strong>TOTAL</strong></td>
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JUNIOR YEAR

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<tr>
<td>Agricultural Economics 2077</td>
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<td>Agricultural Mechanization 2059, 2061</td>
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<tr>
<td>Agronomy 3020, 3021</td>
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<tr>
<td>Animal Science 4009</td>
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<tr>
<td>Animal Science 4018 or Dairy Science 4118 or Agronomy 4064</td>
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<tr>
<td>Entomology 2001</td>
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<td>Foreign language or Sociology 1005</td>
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<tr>
<td>Forestry 4038 or 4039</td>
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<td>Plant Pathology 4000</td>
<td>3</td>
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<tr>
<td>Veterinary Science 3001</td>
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SOPHOMORE YEAR

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<td>Agriculture 2072</td>
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<td>Agronomy 1021, 2051</td>
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<tr>
<td>Biochemistry 2083, 2084</td>
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<td>Chemistry 2060</td>
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</tr>
<tr>
<td>Horticulture 2050</td>
<td>4</td>
</tr>
<tr>
<td>Microbiology 2051</td>
<td>4</td>
</tr>
<tr>
<td>Approved social science electives (must include one rural sociology course)</td>
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<td>Electives or ROTC</td>
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<td><strong>TOTAL</strong></td>
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SENIOR YEAR

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<tr>
<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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<td>Horticulture 4050</td>
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<td>Approved electives</td>
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DEPARTMENT OF PLANT PATHOLOGY AND CROP PHYSIOLOGY

HEAD: Martin, Professor

OFFICE: 302 Life Sciences Building
TELEPHONE: (504) 388-1464

PROFESSORS: Anzalone, Baker, Black, Blackmon, Derrick, Holcomb, Hollis, Horn, Lindberg, Rush, Snow

ASSOCIATE PROFESSORS: Clark, Damann, Harger, Jones

ASSISTANT PROFESSORS: Cohn, Kitchen, McGawley, Schlub, Terry, Tully

The Department of Plant Pathology and Crop Physiology offers courses in plant pathology, crop physiology, and weed science, but does not offer an undergraduate curriculum. Students planning to pursue graduate study in the areas of plant pathology, crop physiology, or weed science should take undergraduate courses in plant physiology, microbiology, entomology, soils, genetics, organic chemistry, physics, and calculus.
DEPARTMENT OF POULTRY SCIENCE

HEAD: Johnson, Professor
ASSOCIATE PROFESSORS: Farr, Hebert
ASSISTANT PROFESSOR: Satterlee

OFFICE: 102 Clyde Ingram Hall
TELEPHONE: (504) 388-4481

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.

CURRICULUM IN POULTRY SCIENCE

TOTAL SEM. HRS.: 134

Electives: A minimum of 6 sem. hrs. of electives must be in humanities, social studies, and/or languages.

FRESHMAN YEAR

<table>
<thead>
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<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<td>English 1001, 1002</td>
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<td>Mathematics 1021, 1431</td>
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JUNIOR YEAR

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<tr>
<td>Animal Science 4018 or Dairy Science 4118</td>
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<td>Chemistry 2261, 2262, 2364 or Chemistry</td>
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<td>2060, Accounting 2101, Marketing 3401</td>
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<td>Experimental Statistics 4001</td>
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<td>Management 3159 or 4159 or</td>
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<td>Industrial Education 3061</td>
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SENIOR YEAR

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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 agriculture industries, farm organizations, community development agencies, and units of federal and state government. Graduates are also qualified to pursue graduate degrees in sociology and/or rural sociology as well as various professional degrees.

Students may obtain further information about the rural sociology curriculum by contacting the Department of Sociology.

CURRICULUM IN RURAL SOCIOLOGY

TOTAL SEM. HRS.: 134

Electives: Electives may be selected from any courses offered by the University with consent of the chairman of the Department of Sociology. The social 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.
FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
<td>Agriculture or Forestry 1001</td>
<td>1</td>
</tr>
<tr>
<td>Agronomy 1021</td>
<td>1003, 1004, or Botany 1001</td>
<td>2-4</td>
</tr>
<tr>
<td>Horticulture 2050</td>
<td>1001 and Zoology 1001</td>
<td>3</td>
</tr>
<tr>
<td>Animal Science 1011 or Dairy Science 1048</td>
<td>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>Poultry Science 1049</td>
<td>1011 or 2002</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology 1001 or 1003</td>
<td>Geography 2051 or 2061</td>
<td>3</td>
</tr>
<tr>
<td>Books and Libraries 1001</td>
<td>Political Science 1001, 2051, 2053, 2057, or 2060</td>
<td>3</td>
</tr>
<tr>
<td>English 1002</td>
<td>Psychology 2000 or 2060</td>
<td>3</td>
</tr>
<tr>
<td>History 1001, 1003, 2055, or 2057</td>
<td>Sociology 2001, 2351</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1015, 1025; or 1021, 1022; or 1021, 1431</td>
<td>Electives or ROTC</td>
<td>4</td>
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<tr>
<td>Philosophy 1021</td>
<td>4-9</td>
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<tr>
<td>Physical Science 1001-1002</td>
<td>1001-1002</td>
<td>4</td>
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<tr>
<td>Electives or ROTC</td>
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JUNIOR YEAR

<table>
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<tr>
<th>Course Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>Agricultural Economics 2075</td>
<td>Agricultural Economics 4053</td>
<td>1</td>
</tr>
<tr>
<td>Agricultural Economics 4018 or Experimental Statistics 4001 or Sociology 2201</td>
<td>Agricultural Economics 4084 or 4088</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 2211, 3101</td>
<td>Extension Education 3010 or 4010</td>
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<td>Sociology 3501, 3505, 4501, 4511, 4521, 4531, 4551, or 4561</td>
<td>Sociology 3911</td>
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<tr>
<td>Sociology 3601 or 3605</td>
<td>Sociology 4301, 4311, 4321, 4331, 4341, 4351, 4361, 4371, or 4471</td>
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<tr>
<td>Speech 2060 or 2064</td>
<td>Sociology 4401, 4411, 4421, 4431, 4441, 4451, 4461, or 4471</td>
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<tr>
<td>Approved agricultural or life sciences electives numbered 2000 or above</td>
<td>Approved agricultural or life sciences electives numbered 3000 or above</td>
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<tr>
<td>Approved social science electives numbered 3000 or above</td>
<td>Electives numbered 3000 or above</td>
<td>4</td>
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<td>Electives</td>
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SENIOR YEAR

<table>
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<tbody>
<tr>
<td>Agricultural Economics 4018</td>
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<td>1</td>
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<tr>
<td>Agricultural Economics 4084</td>
<td>Extension Education 3010 or 4010</td>
<td>3-6</td>
</tr>
<tr>
<td>Sociology 3911</td>
<td>Sociology 4301, 4311, 4321, 4331, 4341, 4351, 4361, or 4371</td>
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<tr>
<td>Sociology 4401, 4411, 4421, 4431, 4441, 4451, 4461, or 4471</td>
<td>Sociology 4701 or 4711</td>
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</tr>
<tr>
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<td>Approved agricultural or life sciences electives numbered 3000 or above</td>
<td>3</td>
</tr>
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<td>Electives numbered 3000 or above</td>
<td>Electives numbered 3000 or above</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
<td>5-9</td>
</tr>
</tbody>
</table>

DEPARTMENT OF VETERINARY SCIENCE

HEAD: Kerr, Professor

PROFESSORS: Amborski, Hart, Issel, Myers, Seger, Springer, Titkemeyer, Williams

ASSOCIATE PROFESSORS: Enright, Fulton, Ingraham, Klei

ASSISTANT PROFESSORS: Flory, Honey, Thune

INSTRUCTORS: Adams, Levy

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 a 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" section of this catalog.

**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>
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<tbody>
<tr>
<td>Agriculture 1001</td>
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<td>Biology 1002, 1004</td>
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<td>Biology 1001, 1003</td>
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<td>Chemistry 1202, 1212</td>
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<td></td>
<td><strong>17</strong></td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR (1ST SEM.)</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR (2ND SEM.)</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agricultural Economics 2075 or Economics 2030</td>
<td>3</td>
<td>Animal Science 2098</td>
<td>3</td>
</tr>
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<td>Agriculture 2072 or Zoology 2153</td>
<td>3</td>
<td>Chemistry 2262, 2364</td>
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<td>Chemistry 2261</td>
<td>3</td>
<td>English 2002</td>
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<tr>
<td>Speech 2060</td>
<td>3</td>
<td>Electives or ROTC</td>
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<tr>
<td></td>
<td><strong>16</strong></td>
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</table>

**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**

DIRECTOR: Hansbrough, Professor

OFFICE: 101 Forestry Building
TELEPHONE: (504) 388-4131

PROFESSORS: Avault, Burns, Chabreck, Choong, Culley, Fogg, Linnartz, Noble
ASSOCIATE PROFESSORS: Chambers, Hamilton, Hu, Shilling, Toliver, Truesdale
ASSISTANT PROFESSORS: Cao, Conner, Hotvedt, Jackson, Johnson, Romaine

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 six summer field courses following the junior year is required of all forestry students. The summer term transportation fee is $90.

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>
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<tr>
<td>Agriculture 1001</td>
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<td>Agronomy 2051</td>
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<td>Biology 1001, 1002, 1003, 1004* or Botany 1001, 1002</td>
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<td>Computer Science 1240</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
<td>English 2002 or BCOS 2071</td>
<td>3</td>
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<tr>
<td>English 1002</td>
<td>3</td>
<td>Experimental Statistics 2095</td>
<td>3</td>
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<td>Mathematics 1021, 1022, 1431</td>
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<td>Speech 2060 or 1061</td>
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<td>Electives or ROTC**</td>
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<td>Option requirements***</td>
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<td>Electives or ROTC**</td>
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<td></td>
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<td>35-37</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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<tbody>
<tr>
<td>Forestry 2061, 3002, 3003</td>
<td>11</td>
<td>Forestry 4036, 4038, 4039</td>
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<tr>
<td>Geography 4020</td>
<td>3</td>
<td>Option requirements***</td>
<td>7-16</td>
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<tr>
<td>Option requirements***</td>
<td>11-17</td>
<td>Approved electives**</td>
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<td>Electives...</td>
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<td>30-32</td>
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<table>
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<tr>
<th>SUMMER</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>(FOLLOWING JUNIOR YEAR)</td>
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</tr>
<tr>
<td>Forestry 3034, 3035, 3036, 3037, 3038, 3039...</td>
<td>8</td>
</tr>
</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 2307 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 3001; Agricultural Engineering 2307 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 (8)—Chemistry 2060, Economics 2030, Wildlife 2031. JUNIOR YEAR (12-14)—Agricultural Engineering 2307 or Agricultural Mechanization 2061 or Civil Engineering 1510, 1550 or 2500, 2510; Entomology 3001 or Plant Pathology 4011; biological science electives. SENIOR YEAR (14-16)—Forestry 4032, 4035, Wildlife 4011, 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

DIRECTOR: Olsen, Professor

OFFICE: 125 Home Economics Building
TELEPHONE: (504) 388-2281

PROFESSORS: Clark, Engebretson, Kelley, Lewis, Reeves, Younathan
ASSOCIATE PROFESSORS: Draughn, Hildreth, Howat, Howell, Ott, Phillips, Singleton
ASSISTANT PROFESSORS: Brandi, Burts, Cheek, Cogle, Davidson, Hegsted, Hwang, McLellan, Wellan

INSTRUCTORS: Berryman, Bryant, Griffie, Marquette, Summers

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 also the curriculum in Vocational Home Economics Education

CURRICULUM IN TEXTILES AND CLOTHING—COMMUNICATION

TOTAL SEM. HRS.: 134

Home economists with a concentration in clothing-communication who can effectively interpret this area orally and in writing are employed by business, industry, agencies in education and government, and newspapers, magazines, and television. By selecting certain courses, students may elect to follow the textiles concentration which is designed to prepare them for positions with fiber, fabric, and garment producers, large retailers, and government and private textile agencies. They may serve as laboratory technicians, consumer advisers, consumer researchers, and manufacturing representatives.
**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>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>HPRD (activity courses)</td>
<td>2</td>
</tr>
<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
<td>12</td>
</tr>
<tr>
<td>Textiles area: Chemistry 1201, 1202, 1212; Math 1021, 1022. Clothing—communication area: Chemistry 1001, 1002, 1004 or Biology 1001, 1002, 1003, 1004; and Math 1021 or 1015, and 1025.</td>
<td>14</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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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 2002</td>
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<tr>
<td>Home Economics 2015, 2045, 3035, 3045, 4037</td>
<td>15</td>
</tr>
<tr>
<td>Home Economics 3040 or 4036</td>
<td>3</td>
</tr>
<tr>
<td>Marketing 3401</td>
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</tr>
<tr>
<td>Speech 1061 or 2060</td>
<td>3</td>
</tr>
<tr>
<td>Textiles area: Microbiology 2051 and electives.* Clothing—communication area: Interior Design 3721 or 3722; and Art 1440 or 1441</td>
<td>6</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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</tbody>
</table>

*Fashion Institute of Technology courses may be used as these electives.

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 2001</td>
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</tr>
<tr>
<td>Economics 2030 or Agricultural Economics</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
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</tr>
<tr>
<td>Home Economics 1040, 2035</td>
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</tr>
<tr>
<td>Textiles area: Chemistry 2060; BCOS 2071; Physics 2001-2002. Clothing—communication area: Art 1011, 1847; Journalism 2090, 2151</td>
<td>12</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>5</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home Economics 3060 or 3061</td>
<td>3</td>
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<tr>
<td>Home Economics 3090, 4030</td>
<td>4</td>
</tr>
<tr>
<td>Home Economics 4035, 4038, 4040, 4041 (choose three)</td>
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</tr>
<tr>
<td>Management 3159</td>
<td>3</td>
</tr>
<tr>
<td>Textiles area: Experimental Statistics 4001. Clothing—communication area: Journalism 3002</td>
<td>3-4</td>
</tr>
<tr>
<td>Approved home economics electives*</td>
<td>3</td>
</tr>
<tr>
<td>Approved social science electives*</td>
<td>6</td>
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<td>Electives*</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Agriculture 1001</td>
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</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
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<tr>
<td>English 1002</td>
<td>3</td>
</tr>
<tr>
<td>HPRD (activity courses)</td>
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<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
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<td>Mathematics 1015, 1021, or 1023</td>
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<td>Mathematics 1022, 1025, or 1431</td>
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<td>Electives or ROTC</td>
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<tr>
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<tbody>
<tr>
<td>English 2002</td>
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<tr>
<td>Home Economics 3060 or 3061; 3020, 4015, 4016, 4020</td>
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<tr>
<td>Microbiology 2051</td>
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<tr>
<td>Psychology 2000</td>
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<tr>
<td>Approved home economics electives</td>
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<tr>
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<tr>
<th>SOPHOMORE YEAR</th>
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<tbody>
<tr>
<td>Accounting 2001</td>
<td>3</td>
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<tr>
<td>Biochemistry 2083, 2084</td>
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<tr>
<td>Chemistry 2060</td>
<td>3</td>
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<td>Economics 2030 or Agricultural Economics</td>
<td>3</td>
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<tr>
<td>English 2020, 2022; or 2025, 2027</td>
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<tr>
<td>Home Economics 2015, 2016</td>
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<tr>
<td>Sociology 2001 or Anthropology 1003</td>
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<tr>
<td>Zoology 2157</td>
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<td>Management 4167</td>
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<td>VHEE 4004</td>
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**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 Examination.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<tr>
<td>Chemistry 1201, 1202, 1212, or Biology 1001, 1002, 1003, 1004 or Physical Science 1001, 1002</td>
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</tr>
<tr>
<td>English 1002</td>
<td>3</td>
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<tr>
<td>HPRD (activity courses)</td>
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<tr>
<td>Mathematics courses</td>
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<tr>
<td>Electives or ROTC**</td>
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**JUNIOR YEAR**

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<tr>
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<tr>
<td>Home Economics 3060</td>
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<tr>
<td>History 2071* or political science elective</td>
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<tr>
<td>Social Welfare 3003 or EDCI 2025*</td>
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<tr>
<td>Sociology 2001, 2351, 2501, or 2721</td>
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<tr>
<td>Approved home economics elective (clothing and textiles)</td>
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**FRESHMAN YEAR**

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<td>English 1002</td>
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<tr>
<td>Home Economics 1010, 1030, 1032, 1050</td>
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<tr>
<td>Mathematics 1015, 1021, or 1023</td>
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<tr>
<td>Mathematics 1022, 1025, or 1431</td>
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**SOPHOMORE YEAR**

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<thead>
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<td>English 2020, 2022; or 2025, 2027</td>
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<td>Home Economics 1032, 2055</td>
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<tr>
<td>Home Economics 2015* or approved electives (food and nutrition)</td>
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<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>
<td>Speech* or philosophy</td>
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<tr>
<td>Zoology 2157</td>
<td>3</td>
</tr>
<tr>
<td>HPRD electives</td>
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<tr>
<td>Electives or ROTC**</td>
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**SOPHOMORE YEAR**

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<td>Chemistry 2060</td>
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</tr>
<tr>
<td>Economics 2030 or Agricultural Economics 2075</td>
<td>3</td>
</tr>
<tr>
<td>English 2020, 2022; or 2025, 2027</td>
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</tr>
<tr>
<td>Home Economics 2015</td>
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<tr>
<td>Microbiology 2051</td>
<td>4</td>
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<tr>
<td>Psychology 2000</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 2157</td>
<td>3</td>
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<tr>
<td>Approved social science electives</td>
<td>3</td>
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<tr>
<td>Electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tr>
</tbody>
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**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.
JUNIOR YEAR

Home Economics 2016, 3060 or 3061, 4015, 4016 ................................................................ 12
Approved home economics electives (other than food and nutrition courses) .................. 3
Science option—Chemistry 2251, 2252; Microbiology 4110; English 2002.
   Communication option—Journalism 2090, 2151, 3002; Speech 1061 or 2060 ............ 11-12
Electives .................................................................................................................. 5-6
                                                                                      32

SENIOR YEAR

Home Economics 3020 or 4011; 3090, 4010, 4012 .................................................. 10
Science option—Microbiology 4162; Experimental Statistics 4001. Communication
   option—Journalism 4082 and 5 sem. hrs. selected from Journalism 2070, 3001, 3065,
   4030, 4031, 4075, 4107, 4141, or 4170 .......... 8
Electives .................................................................................................................. 14
                                                                                      32

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.

FRESHMAN YEAR

Agriculture 1001 .................................................................................................... 1
Chemistry 1001, 1002, 1004 or Biology 1001, 1002, 1003, 1004 .................................................. 8
English 1002 ........................................................................................................... 3
HPRD (activity courses) .......................................................................................... 2
Home Economics 1010, 1030, 1032, 1050 ............................................................... 12
Mathematics 1015 or 1021; and 1025 ....................................................................... 6
Electives or ROTC ................................................................................................. 2
                                                                                      34

SOPHOMORE YEAR

Accounting 2001 ..................................................................................................... 3
BCOS 2071 .............................................................................................................. 3
Economics 2030 or Agricultural Economics 2075 ..................................................... 3
English 2020, 2022; or 2025, 2027 .............................................................. 6
Home Economics 1040, 2015, 2035, 2045 ........................................................... 12
Speech 1061 or 2060 ............................................................................................. 3
Electives or ROTC ................................................................................................. 4
                                                                                      34

JUNIOR YEAR

Home Economics 3035, 3044, 3045, 4040 ................................................................. 12
Home Economics 3060 or 3061 ............................................................................... 3
Management 3159 .................................................................................................... 3
Marketing 3401 ........................................................................................................ 3
Approved home economics electives* ....................................................................... 6
Approved social science electives* ........................................................................... 6
                                                                                      33

SENIOR YEAR

Finance 3200 or 3201 .............................................................................................. 3
Home Economics 3046, 3047, 3090, 4030 ................................................................. 15
Management 4164 ....................................................................................................... 3
Marketing 4431 ........................................................................................................... 3
Electives* .................................................................................................................. 9
                                                                                      33

*Fashion Institute of Technology courses may be used as these electives up to a maximum of 15 sem. hrs.

School of Vocational Education

DIRECTOR: Curtis, Professor

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 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 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 institution(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.” 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*

HEAD: Gassie, Professor
PROFESSORS: Flint, Jones, Pesson
ASSOCIATE PROFESSORS: McFatter, Soileau, Verma

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 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

HEAD: McMurry, Professor
ASSOCIATE PROFESSOR: Kuetemeyer
ASSISTANT PROFESSORS: Hannaman, Hoover, Langlois, Meaux, Trott, Weigand, Younger

INSTRUCTOR: Beauvais

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 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 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.

FRESHMAN YEAR SEM. HRS.
Agriculture 1001 ................................................................. 1
Books and Libraries 1001 .................................................... 1
Botany 1001 ................................................................. 4
English 1001, 1002 .............................................................. 6
Geography 1001, 1003 or History 1001, 1003, or social studies courses .............................................................. 6
Industrial Education 1001, 1010 ........................................... 6
Mathematics 1021, 1022; or 1021, 1025 ................................... 6
Approved HPRD electives .................................................. 2
Electives or ROTC ............................................................ 2

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JUNIOR YEAR SEM. HRS.
Economics 2030 .................................................................. 3
EDCI 1000, 3135, 3136 .......................................................... 9
English 2002, 2025 .......................................................... 6
Industrial Education 2012, 2024, 2030, 2031, 3057, 3059 ............... 18

36

SOPHOMORE YEAR SEM. HRS.
Engineering Graphics 1001 .................................................. 2
Engineering Graphics 2154 or .................................................. 2
Construction 1583 ................................................................ 2
Industrial Education 1011, 1021, 2022, 2040, 2051, 2052 ......................... 18
Physics 2001-2002, 2008-2009 or ........................................... 18
Chemistry 1001, 1002, 1004 ................................................... 8
HPRD electives ................................................................. 2
Electives or ROTC ............................................................. 4

36

CURRICULUM IN INDUSTRIAL TECHNOLOGY
TOTAL SEM. HRS.: 134

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 SEM. HRS.
Agriculture 1001 ................................................................. 1
Books and Libraries 1001 .................................................... 1
Engineering Graphics 1001 .................................................. 2
English 1002 ...................................................................... 3
Industrial Education 1001, 1010, 1011, 1021 ................................... 12
Mathematics 1021, 1022 .......................................................... 6
Electives or ROTC ............................................................ 6

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SOPHOMORE YEAR SEM. HRS.
Chemistry 1001, 1002, 1004 .................................................. 8
Engineering Graphics 2154 .................................................. 2
English 2002 ...................................................................... 2
Industrial Education 2024, 2030, 2051 ................................................. 9
Mathematics 1550 .................................................................. 5
Approved basic social science/humanities electives ......................... 6
Electives or ROTC ............................................................. 4

37
### JUNIOR YEAR

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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>
<td>3</td>
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### SENIOR YEAR

<table>
<thead>
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<tbody>
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<tr>
<td>Industrial Engineering 4406</td>
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<tr>
<td>Electives</td>
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### CURRICULUM IN INDUSTRIAL TECHNOLOGY

**BUILDING MANAGEMENT OPTION**

For first two years, see industrial technology curriculum.

### JUNIOR YEAR

<table>
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<td>Accounting 2001</td>
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<td>BCOS 2071</td>
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</tr>
<tr>
<td>Civil Engineering 2500, 2510</td>
<td>3</td>
</tr>
<tr>
<td>Horticulture 2075</td>
<td>3</td>
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<td>Industrial Education 2040</td>
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<td>Landscape Architecture 1151</td>
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<td>Management 3159</td>
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### CURRICULUM IN INDUSTRIAL TECHNOLOGY

**NUCLEAR SCIENCE OPTION**

For first two years, see industrial technology curriculum.

### JUNIOR YEAR

<table>
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<tr>
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<td>Industrial Education 2022, 2031</td>
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<tr>
<td>Nuclear Science 2051, 3411, 4331, 4527</td>
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<tr>
<td>Electives</td>
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### SENIOR YEAR

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<td>Nuclear Science 4412, 4481, 4494, 4991</td>
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### CURRICULUM IN INDUSTRIAL TECHNOLOGY

**OCCUPATIONAL SAFETY AND HEALTH OPTION**

TOTAL SEM. HRS.: 134

### FRESHMAN YEAR

<table>
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<tr>
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<tr>
<td>Books and Libraries 1001</td>
<td>1</td>
</tr>
<tr>
<td>Engineering Graphics 1001</td>
<td>2</td>
</tr>
<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>
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<td>Electives or ROTC</td>
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### SOPHOMORE YEAR

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<tbody>
<tr>
<td>Chemistry 1001, 1002, 1004</td>
<td>8</td>
</tr>
<tr>
<td>English 2002</td>
<td>3</td>
</tr>
<tr>
<td>HPRD 1600</td>
<td>2</td>
</tr>
<tr>
<td>Industrial Education 2024, 2030, 2051</td>
<td>9</td>
</tr>
<tr>
<td>Speech 2064</td>
<td>3</td>
</tr>
<tr>
<td>Approved basic social science/humanities</td>
<td>6</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>4</td>
</tr>
<tr>
<td>Total</td>
<td>35</td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPRD 3602</td>
<td>2</td>
</tr>
<tr>
<td>Industrial Education 2040, 3055, 3057</td>
<td>9</td>
</tr>
<tr>
<td>Industrial Engineering 4104</td>
<td>3</td>
</tr>
<tr>
<td>Management 3159</td>
<td>3</td>
</tr>
<tr>
<td>Nuclear Science 2051</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Total</td>
<td>34</td>
</tr>
</tbody>
</table>

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPRD 2500</td>
<td>3</td>
</tr>
<tr>
<td>Industrial Education 3061, 3063, 4065</td>
<td>12</td>
</tr>
<tr>
<td>Industrial Engineering 4406</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 3050</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>11</td>
</tr>
<tr>
<td>Total</td>
<td>32</td>
</tr>
</tbody>
</table>


### Department of Vocational Agricultural Education

**HEAD:** Curtis, Professor  
**PROFESSOR:** Smith  
**ASSOCIATE PROFESSOR:** Kotrika  
**ASSISTANT PROFESSOR:** Burnett

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 M.S. and Ph.D. each with a major in vocational agricultural education.

### CURRICULUM IN VOCATIONAL AGRICULTURAL EDUCATION

**TOTAL SEM. HRS.: 136**

**Recommended Electives:** Agricultural Economics 4001; Agricultural Mechanization 2066, 3082; Agronomy 3002, 3003, 4008, 4032; Animal Science 2071, 3040, 3053; Dairy Science 2075; and Horticulture 2061, 4021, 4096.

### 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>Agronomy 1021</td>
<td>3</td>
</tr>
<tr>
<td>Animal Science 1011</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1015, 1025; or 1021, 1022</td>
<td>6</td>
</tr>
<tr>
<td>HPRD electives</td>
<td>2</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL SEM. HRS.: 34**

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Mechanization 2059</td>
<td>3</td>
</tr>
<tr>
<td>Agronomy 2051</td>
<td>4</td>
</tr>
<tr>
<td>Biology 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Dairy Science 1048</td>
<td>3</td>
</tr>
<tr>
<td>Entomology 2001</td>
<td>3</td>
</tr>
<tr>
<td>HPRD 2601</td>
<td>1</td>
</tr>
<tr>
<td>Poultry Science 1049</td>
<td>3</td>
</tr>
<tr>
<td>VAED 2070</td>
<td>1</td>
</tr>
<tr>
<td>English electives</td>
<td>3</td>
</tr>
<tr>
<td>HPRD elective</td>
<td>1</td>
</tr>
<tr>
<td>Social science electives</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>4</td>
</tr>
</tbody>
</table>

**TOTAL SEM. HRS.: 35**

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Mechanization 2065</td>
<td>3</td>
</tr>
<tr>
<td>Animal Science 2098</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>English 2002</td>
<td>3</td>
</tr>
<tr>
<td>Forestry 3051</td>
<td>2</td>
</tr>
<tr>
<td>History 2055</td>
<td>3</td>
</tr>
<tr>
<td>Horticulture 2050</td>
<td>4</td>
</tr>
<tr>
<td>Psychology 2060, 2078</td>
<td>6</td>
</tr>
<tr>
<td>VAED 3017, 3095</td>
<td>7</td>
</tr>
</tbody>
</table>

**TOTAL SEM. HRS.: 34**

### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural Economics 4015</td>
<td>3</td>
</tr>
<tr>
<td>Agronomy 4055</td>
<td>4</td>
</tr>
<tr>
<td>EDCI 3135, 3136</td>
<td>6</td>
</tr>
<tr>
<td>Veterinary Science 3001, 3002</td>
<td>4</td>
</tr>
<tr>
<td>VAED 3018, 3019, 3020, 4016</td>
<td>16</td>
</tr>
</tbody>
</table>

**TOTAL SEM. HRS.: 33**
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 of student 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. Suggested electives include EDAF 3300 and Speech 1050, 1061, or 2060. Approved social science electives must be selected from history, geography, political science, economics, and anthropology.

<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, 1212</td>
<td>8</td>
<td>Chemistry 2060</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>HPRD (activity courses)</td>
<td>2</td>
<td>2075</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 1010, 1032, 1040</td>
<td>9</td>
<td>EDCI 1000</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
<td>Home Economics 2015, 2035</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>34</td>
<td>Microbiology 2051</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Psychology 2060</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>VHEE 2001</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zoology 2157</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>34</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDCI 3135</td>
<td>3</td>
<td>EDCI 3136</td>
<td>3</td>
</tr>
<tr>
<td>History 2055 or 2057</td>
<td>3</td>
<td>Home Economics 3060 or 3061</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 2016, 2055, 4010, 4050</td>
<td>12</td>
<td>Home Economics 4065, 4066</td>
<td>6</td>
</tr>
<tr>
<td>Home Economics 4036 or 4037</td>
<td>3</td>
<td>VHEE 3003, 4001, 4002</td>
<td>14</td>
</tr>
<tr>
<td>Interior Design 3721 or 3722</td>
<td>3</td>
<td>Approved social science electives</td>
<td>6</td>
</tr>
<tr>
<td>Psychology 2078</td>
<td>3</td>
<td></td>
<td>32</td>
</tr>
<tr>
<td>VHEE 3001</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved English electives</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved HPRD electives</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The College of Arts and Sciences' primary purpose is to afford the student liberal education, which by its nature is broad rather than narrow, devoted to intellectual development and discipline rather than to the acquisition of technical skills. It should give the student some knowledge of the achievements of the human mind, with special reference to the western civilization of which both the ancient world and contemporary America are parts; the historical and cultural backgrounds essential to a true understanding of our world; and above all, orderly thinking processes and a scale of values by which the distinction can be made between permanent and trivial, substantial and pretentious, good and bad. To that end, some familiarity with historical and political studies, the sciences, and the arts is necessary. As a human being and as a citizen, the student will find this training of lasting significance. As a member of a profession, each student will find desirable backgrounds—for scholarship and teaching in all fields of knowledge; for law and medicine, which stress increasingly the value of broad intellectual training; for journalism, government service, and diplomacy. The curricula within the college require a number of courses deemed essential—individually and as a group—to the intellectual competence at which the liberal education aims; in addition to these, the student has electives which may be used to further general knowledge or to specialize in certain fields.

To accomplish its primary purpose, the college offers three broad programs: humanities, natural sciences, and social sciences. By following one of these programs, the student will obtain a much wider background than is generally possible under the standard curriculum. The advantages of broad training for everyday life are obvious. Moreover, the added breadth of knowledge will be helpful in case the student continues beyond the bachelor's degree level.

In addition to the above programs, the college offers preprofessional work for students who intend to study medicine, dentistry, library science, or social 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.
Both the Bachelor of Arts and the Bachelor of Science may be earned in geography and in psychology.
STUDENT RESPONSIBILITY

Students in this college bear final responsibility for selection of their academic programs and adherence to all published regulations and requirements of the college and the University. Each student must see his or her counselor for a final degree checkout during the semester prior to the semester in which the degree is to be awarded.

ADMISSION REQUIREMENTS

Students will be eligible for admission to the College of Arts and Sciences if they have earned at least 24 or more semester hours, have a grade-point average of at least 2.00 ("A" = 4) in all work undertaken, and are eligible to enroll in English 1002.

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.

DEGREE REQUIREMENTS OF THE COLLEGE

A. General Requirements

In order to qualify for a bachelor’s degree in this college, a candidate must satisfy these requirements:

1. All group and course requirements as explained under “Curricular Requirements.” (Students who break residence, either voluntarily or by compulsion, for at least two consecutive semesters, may not elect a catalog earlier than the one in force at the time of their re-entry.)

2. A 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.

3. A minimum of 128 to 136 semester hours of degree credit.

4. A minimum of 34 semester hours in courses numbered 2000 or above and an additional 30 semester hours in courses numbered 3000 or above.

5. A minimum of nine semester hours in residence in the major field, including at least six semester hours in courses numbered 3000 or above.

6. 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.

7. 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. Arts and Sciences 1001/1003 or 1002/1004 may be substituted for English 1002.

8. 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.
9. Foreign language. All students are urged to schedule a foreign language each semester until the appropriate course has been completed. Students who select for study a foreign language in which they have some high school credit will take a placement test in that language and be registered at the course level appropriate to their score on the test (regardless of the amount of credit earned in high school). Credits, up to a maximum of 13 semester hours, may be earned by placement test and posted immediately. For placement purposes, the test is valid for two years. Advanced-standing credit for any course above 2053 must be established by credit examination.

It is recommended that students with foreign language credits earned at another college take the placement test for guidance in scheduling. In the absence of test scores, 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.)

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

**Group II—Natural Sciences**

<table>
<thead>
<tr>
<th>BIOLOGICAL:</th>
<th>MATHEMATICAL:</th>
<th>PHYSICAL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany</td>
<td>Computer Science</td>
<td>Astronomy</td>
</tr>
<tr>
<td>Microbiology</td>
<td>Mathematics</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Zoology</td>
<td></td>
<td>Geology</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>

1. DISTRIBUTION REQUIREMENTS FOR THE DEGREE

In addition to satisfying the departmental requirements for the major field, candidates for the B.A. and the B.S. degrees must meet minimum distribution requirements as outlined below:
A. 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: six 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 six hours of history.

B. 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: six 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 six hours of history.

C. Bachelor of Science (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: six semester hours.

2. Group II—at least 48 semester hours, but not more than 85 semester hours for degree credit.
   a. At least five hours 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 six hours of history.

For purposes of major only, psychology or geography may be considered as a natural science, and students who elect to do so may earn a B.S. instead of a B.A. degree. Such students will fulfill all the requirements for the Bachelor of Science degree as listed above; and they may not use geography or psychology as one of the required three subjects in Group III.

D. Arts and Sciences (Honors) Courses

Arts and Sciences courses may be distributed as follows: Group I—A&S 1001, 1002, 2021, 3030; Group II—A&S 1007, 1008, 3035; Group III—A&S 1003, 1004, 3031, 3033.

A&S 2011, 2012, and 2013 may fulfill distribution requirements in Group I or Group III depending on the particular content in any given semester.

2. MAJOR FIELD REQUIREMENTS

Candidates for a degree in the college will choose one of the three groups above (humanities, natural sciences, or social sciences) in which to do the 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 in the college are given later in this section. 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.

3. MINOR FIELD REQUIREMENTS (OPTIONAL)

Although students are not required to pursue a minor field (except in the School of Journalism), they may choose to do so under the following guidelines:

1. Earn a minimum of 15-18 semester hours in the minor field, of which at least six semester hours must be in courses at the 3000- and/or 4000-level.
2. Earn a minimum grade-point average in the minor field of 2.00 on all work taken in the LSU System and on all work taken.

Minor fields may be selected from any major field currently offered by the college in which appropriate requirements for a minor have been established or any field of an interdisciplinary nature for which a minor has been approved by the Faculty Senate Courses and Curricula Committee and the Office of Academic Affairs.

Minors may also be taken in fields outside the college if:

1. the total number of semester hours does not exceed 24 (total number of non-Arts and Sciences electives that may be counted toward graduation);
2. the work conforms to guidelines established by the department, school, and college concerned;
3. the work meets the general minor field requirements of the College of Arts and Sciences stated above.

For more information on minor field requirements, see individual departments in the “Departments, Schools, and Curricula” section of this chapter.

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
Classical, Germanic, and Slavic Languages
Computer Science
Curriculum and Instruction
Economics
English

Entomology
Environmental Studies
Experimental Statistics
French and Italian
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
Spanish and Portuguese
Speech
Zoology and Physiology

A student may receive a maximum of six semester hours of degree credit in basic ROTC and a maximum of six semester hours of degree credit in advanced ROTC.

In departments not listed above, students may elect courses for which they have the prerequisites. Twenty-four semester hours of elective credit in such courses may be counted toward graduation from this college. No more than eight hours of HPRD activity courses may be counted toward graduation from this college.

CORRESPONDENCE, EXTENSION, 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 registered in the college may enroll in a
maximum of 15 semester hours of combined resident and correspondence coursework during a regular semester. They may enroll in a maximum of six semester hours of combined resident and correspondence coursework during a summer term. Students completing degree requirements with correspondence credit may not register to receive their degrees until the correspondence study is completed.

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 prior to registration.

**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 AMA-approved schools): Math 1021 and 1022 or 1550; 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.”)

**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.*
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. HRS.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002, and 2020, 2022; or 2025, 2027</td>
<td>12</td>
</tr>
<tr>
<td>Foreign languages—through 2053</td>
<td>3-13</td>
</tr>
<tr>
<td>History courses</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023 or 1550</td>
<td>5-6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics 2001-2002, 2008-2009; or 1201-1202, 1208-1209</td>
<td>8</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Electives (approved by the college) to make a total of 60-68 sem. hrs.</td>
<td>60-68</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.

<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, 1212</td>
<td>8</td>
<td>Chemistry 2261, 2262</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023; or 1550</td>
<td>5-6</td>
<td>Foreign language (courses 1001, 2051)</td>
<td>10</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
<td>Microbiology 2051</td>
<td>4</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>4</td>
<td>Approved humanities/social sciences courses*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>31-32</td>
<td>Approved electives or ROTC</td>
<td>34</td>
</tr>
<tr>
<td>Junior Year</td>
<td>SEM. HRS.</td>
<td>Senior Year</td>
<td>SEM. HRS.</td>
</tr>
<tr>
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<td>-------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Chemistry 2251, 2364</td>
<td>5</td>
<td>Chemistry 2252</td>
<td>2</td>
</tr>
<tr>
<td>Foreign language (course 2053)</td>
<td>3</td>
<td>Microbiology 4122, 4146</td>
<td>6</td>
</tr>
<tr>
<td>Microbiology 3115 or 4110</td>
<td>3-4</td>
<td>Approved microbiology electives**</td>
<td>2-3</td>
</tr>
<tr>
<td>Microbiology 4121</td>
<td>4</td>
<td>Approved humanities/social sciences courses*</td>
<td>12</td>
</tr>
<tr>
<td>Approved humanities/social sciences courses*</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>32-33</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Four-year program must include six 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.

**Microbiology electives might include Microbiology 4180 and 4190.

***Pre-dental students must take Zoology 4104 to satisfy professional school requirements. Suggested approved electives include Philosophy 2018, Business Administration 1001, Biochemistry 4183, and Zoology 2152.

**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 six hours in Group I courses other than English and foreign languages and 15 hours in three subjects in Group III including at least six hours of history.

<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>Chemistry 1212, 2261, 2262</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023; or 1550</td>
<td>5-6</td>
<td>Foreign language (courses 1001, 2051)</td>
<td>10</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
<td>Zoology 2152, 2153</td>
<td>7</td>
</tr>
<tr>
<td>Approved humanities/social sciences courses</td>
<td>3</td>
<td>Approved electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives or ROTC</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>32-33</td>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>SEM. HRS.</th>
<th>Senior Year</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2364</td>
<td>2</td>
<td>Chemistry 2252 or a laboratory course in biochemistry</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 2251 or biochemistry course</td>
<td>3</td>
<td>Approved humanities/social sciences courses</td>
<td>12</td>
</tr>
<tr>
<td>Foreign language (course 2053)</td>
<td>3</td>
<td>Approved zoology electives—at least 7 hrs.</td>
<td></td>
</tr>
<tr>
<td>Physics 2001-2002, 2008-2009</td>
<td>8</td>
<td>must be in a 4000-level course with lab</td>
<td>7-8</td>
</tr>
<tr>
<td>Zoology 3156</td>
<td>4</td>
<td>Approved Group I, II, or III electives to complete 128 hrs</td>
<td>9</td>
</tr>
<tr>
<td>Zoology 3090 or 4160</td>
<td>3-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved humanities/social sciences courses</td>
<td>9</td>
<td></td>
<td>30</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 must have 12 hours of biological sciences which include comparative anatomy or embryology lecture and laboratory. In addition, they must have four hours of credit in histology with laboratory.

**Approved Humanities or Social Sciences Courses:** A four-year program must include six hours in Group I courses other than English and foreign languages and 15 hours in three subjects in Group III including at least six hours of history.
FRESHMAN YEAR  | SEM. HRS.  
---|---
Chemistry 1201, 1202 | 6
English 1001, 1002 | 6
Mathematics 1021, 1022; or 1023; or 1550 | 5-6
Zoology 1001, 1002 | 8
Approved humanities/social sciences courses | 3
Approved electives or ROTC | 4

32-33

JUNIOR YEAR  | SEM. HRS.  
---|---
Chemistry 2364 | 2
Foreign language (course 2053) | 3
Zoology 3156 | 4
Zoology 3090 or 4160 | 3-4
Approved humanities/social sciences courses | 12

32-33

SOPHOMORE YEAR  | SEM. HRS.  
---|---
Chemistry 1212, 2261, 2262 | 8
English 2020, 2022; or 2025, 2027 | 6
Foreign language (courses 1001, 2051) | 10
Zoology 2152, 2153 | 7
Approved electives or ROTC | 3

34

SENIOR YEAR  | SEM. HRS.  
---|---
Zoology 4104 | 4
Approved humanities/social sciences courses | 9
Approved zoology electives—at least 7 hrs. |
must be in a 4000 level course with lab | 7-8
Approved Group I, II, or III electives to complete 128 hrs | 10

30

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 uncondition 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:

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*Completion of the three-year undergraduate portion of the combined curricula does not assure acceptance into the professional schools of the LSU System.
### Division of Honors and Interdisciplinary Studies

**BILLY M. SEAY, Director**

244 Allen Hall
(504) 388-8828

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 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 A&S 1001/1003 in the fall and A&S 1002/1004 in the spring. The honors life sciences sequence, A&S 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).

The upper-level seminars are designed to supplement departmental courses. Offerings vary from year to year. For course descriptions in any given semester, consult the division director before or during registration.

### ADMINISTRATION AND COUNSELING

The director and associate director are 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.

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

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

a. take A&S 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, other honors courses are offered through various departments, as follows:

Anthropology 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 1551, 1553, 2058, 2086
Philosophy 2034, 2036, 2952, 2953, 2963, 2964, 2965, 3901, 3902
Political Science 2052, 3000, 3896, 3897
Psychology 2001
Spanish 2052, 2054, 2056
Speech 1021, 1062, 2862
Zoology 1003

Departments, Schools, and Curricula

DEPARTMENT OF AEROSPACE STUDIES

COMMANDANT OF CADETS; Jackson, Professor
ASSISTANT PROFESSORS: Brinkley, Clary, Youther

OFFICE: 105 Military Science/Aerospace Studies Building
TELEPHONE: (504) 388-4407

For information on this department's program, see the "Reserve Officers Training Corps" section of this catalog.

DEPARTMENT OF BOTANY

CHAIRMAN: Schexnayder, Professor
BOYD PROFESSOR: Tucker
ASSOCIATE PROFESSORS: Chapman, Lieux, Urbatsch
ASSISTANT PROFESSORS: Adams, Blackwell, Longstreth
INSTRUCTOR: Dickey

OFFICE: 305 Life Sciences Building
TELEPHONE: (504) 388-8485

Students majoring 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.

DEPARTMENT OF CLASSICAL, GERMANIC AND SLAVIC LANGUAGES

CHAIRMAN: Hart, Professor
PROFESSOR: Newby
ASSOCIATE PROFESSORS: Clarke, Falk, Hintze, Poponjac
ASSISTANT PROFESSORS: Campbell, Del Caro, Di Napoli, Edgeworth, Kaszkurewicz, Kitchell, Schierling
INSTRUCTORS: Allan, Di Maio

A minimum of 32 semester hours in courses numbered 2000 or above must be taken for a major in German, including German 2061, 2062, 3083, and 3084. German 1001 may not count toward satisfying the minimum requirements for a major in German.

A minor in German consists of a total of 22 hours, six of which must be numbered 3000 or above. Those courses specifically designated as being offered in translation cannot be counted as fulfilling part of the major or minor requirement.

A minimum of 30 semester hours is required for a major in Russian. A minor in Russian consists of a total of 22 hours, six of which must be numbered 3000 or above. Those courses specifically designated as being offered in translation cannot be counted as fulfilling part of the major or minor requirement.

Persons whose native language is German or Russian may not take for credit courses 1001, 2051, 2053, or 2055 in that language.

A minimum of 30 semester hours is required for a major in Latin. A minimum of 37 semester hours is required for a major in classical languages (combination of Latin and Greek).

To obtain a minor in Latin or Greek, a student must have a minimum of 17 hours of instruction in that language at the 2000 level and above. At least six hours must be taken at the 3000 level or above.

To obtain a minor in classical civilization, a student must have a minimum of 18 hours of approved courses, of which no more than six hours may be taken outside the department. At least six hours must be at the 3000 level or above. Any course in Latin or Greek language, numbered 2000 or above, may count toward the minor, as may Greek 2075, 3015, 3032, and Latin 2090. Courses outside the department which may count toward the minor are Art 4403, 4404, 4408; History 2001, 2002, 4001, 4003, 4004; Philosophy 2033, 2034, 4920, 4922, 4924; and Political Science 4081.

DEPARTMENT OF ENGLISH

CHAIRMAN: Carrithers, Professor
OFFICE: 211 Allen Hall
TELEPHONE: (504) 388-2236

BOYD PROFESSOR & WILLIAM A. READ PROFESSOR OF ENGLISH LITERATURE: Simpson
ALUMNI PROFESSORS: Stanford
PROFESSORS: Broughton, N. Canaday, Crump, Fischer, Gudas, May, D. Moore, Nardin, L. Sasek, Shrell
ASSOCIATE PROFESSORS: Borck, de Caro, Evans, Fogel, Hathaway, Kennedy, McCormick, Nardo, Parker, Roberts, Rothschild, Schweitzer, Watson, Weaver
WRITER-IN-RESIDENCE: Madden
ASSISTANT PROFESSORS: J. Babin, Bankston, Bennett, Connors, Cowan, Eyster, Garrett, Geary, Haselkorn, Kametz, G. Sasek, Spraycar

Students majoring in English must complete, with at least a 2.00 average, a total of 36 hours in the subject, 15 of which must be in courses numbered 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: English 4005, 4006, 4007, 4008, 4010, 4011, 4012, 4013.
- c. Restoration and 18th Century: English 4050, 4051, 4055.
d. 19th Century: English 4060, 4061, 4062, 4063, 4065.
e. 20th Century: English 2087, 4085, 4086, 4087, 4088.
g. Backgrounds to Literature: English 2423, 3033, 3210, 3220, 3401, 4024, 4084, 4124, 4231, 4475, 4480.

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); two of the following: 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.

Students minoring in English must complete 18 semester hours of English courses in addition to freshman English. Requirements are English 2020 (or 2021) and 2022 (or 2023) or 2025 (or 2026) and 2027 (or 2028); Shakespeare (2148, or 4148, or 4149); nine hours of electives, at least six of which must be at the 3000-level or higher, chosen from the list of courses approved for English majors.

A special curriculum leading to the B.A. degree with departmental honors in English is also offered. Details are available from the departmental office.

Undergraduates expecting to do graduate work should plan to take the Graduate Record Examination during the fall semester preceding their graduation.

Graduate students should consult the section entitled “Department of English” in the Graduate School Catalog.

DEPARTMENT OF FRENCH AND ITALIAN

CHAIRMAN: Erickson, Professor
PROFESSORS: Galler, Redfern
ASSOCIATE PROFESSORS: Brind’Amour, Chumbley, Roubey, Schurfranz, Zebouni
ASSISTANT PROFESSORS: Marshall, Pucci, Russo
INSTRUCTORS: Barthe, D’Angelo, Israel–Pelletier

A minimum of 32 semester hours in French courses numbered above 2000 must be taken for a major in French, including French 2057, 2060, 2071, and 2072. A minimum of 30 semester hours is required for a major in Italian.

Students majoring in French or Italian are urged to elect English 2020, 2022 (in lieu of 2025, 2027), Speech 4150, and Greek 3032.

A minor in French will consist of 15 hours of coursework above French 2055, with at least six hours of 3000-4000 level courses (three hrs. of which must be 4000 level).

A minor in Italian will consist of 15 hours of coursework with at least six hours of 3000-4000 level courses.

A special curriculum leading to the B.A. degree with departmental honors in French is offered. Details are available from the departmental office.

SCHOOL OF GEOSCIENCE

DIRECTOR: Ferrell, Professor
INSTRUCTORS: Nelson, Nichols

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.

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.

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. 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.

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
DEPARTMENT OF GEOGRAPHY AND ANTHROPOLOGY

CHAIRMAN: Newton, Professor  
BOYD PROFESSOR: Walker  
PROFESSORS: Chardon, Hilliard, Kesel, Muller, Richardson, Vermeer  
ASSOCIATE PROFESSORS: Davidson, Edwards  
ASSISTANT PROFESSORS: Allan, Goad, Larimore, Neuman, Owsley, Wiseman

Geography

Students majoring in geography may earn either the Bachelor of Arts or Bachelor of Science degree. 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 major in geography must complete a core curriculum consisting of Geography 1001, 1003, 2050, 2051, and 2055.

Candidates for the Bachelor of Arts degree must complete, in addition to the core curriculum, not less than 18 hours in geography, with nine hours selected from Geography 4019, 4039, 4040, 4041, and 4045; six hours selected from Geography 4012, 4060, 4070, 4073, and 4077; and three 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 nine hours selected from Geography 4020, 4039, 4040, 4041, and 4045; and nine 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 majoring in geography must pay a field service fee of $20 per semester for undergraduate majors and $25 per semester for graduate majors. Students not majoring in geography or anthropology who schedule courses requiring field service will be assessed a pro rata part of the transportation costs, as determined by the department chairman.

Requirements for a minor in geography are one course selected from Geography 1001, 1003, 2062; Geography 2050 and 2051; one course selected from Geography 4019, 4020, 4039, 4041, 4043, and 4045; and two additional 4000-level geography courses.

Honors courses offered in geography are Geography 1002, 1004, and 4999. Geology 3001 and 4031 may be taken for elective geography credit.

Anthropology

A Bachelor of Arts is offered in anthropology. Because it is a broad study of mankind, students majoring in anthropology are urged to undertake a program of study in sciences, social sciences and humanities. Departmental course requirements are few. Students should complete the introductory courses, Anthropology 1001 and 1003, and at least three from among the following: Anthropology 2015, 2051, 3060, 4040. Course 2055 in a foreign language should also be completed. A minimum of 24 hours in anthropology is required. Courses in archaeology, cultural anthropology, folklore, physical anthropology, and anthropological linguistics are available. Through consultation with their departmental adviser, students design a specific program to fit their needs.

Because anthropology is a field science, students participate in numerous field trips. To help defray expenses, a field service fee of $20 per semester is charged to undergraduates and $25 per semester for graduate majors. Non-majors participating in field trip courses will be assessed a fee on a pro rata basis.

Requirements for a minor in anthropology are Anthropology 1001, 1003, and nine hours to be taken from the following three groups, no more than six hours total from any one group: Group 1 (method and laboratory)—Anthropology, 3078, 3401, 4090; Group 2 (area)—Anthropology 4003, 4004, 4015, 4016, 4017, 4023, 4025, 4051, 4053, 4475; and Group 3 (topical)—Anthropology 2015, 2051, 2423, 3060, 3909, 4031, 4040, 4060, 4064, 4081, 4085, 4440.

DEPARTMENT OF GEOLOGY

CHAIRMAN: Ferrell, Professor  
PROFESSORS: Hanoir, Hart, Lowe, Moore, Sen Gupta, van den Bold  
OFFICE: 331 Geology Building  
TELEPHONE: (504) 388-3353
The following special requirements apply to all students majoring 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.

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 courses requiring field trip fees will be assessed a pro rata part of the above amount as determined by the department chairman. Part-time students enrolled in seminar courses only and students registered for thesis or dissertation only are exempt from paying this fee. Information concerning special fees for summer camps may be obtained from the Department of Geology.

Honors courses offered 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.

Nonprofessional Degree

Students who select geography as a major for a nonprofessional degree must include in their curriculum Geography 1001, 1003, 1601, 1602, 2071, 2081, 2082, 2661, 2666, 3011, 3666, 4031, 4041; and Math 1550.

Note: The year-course Geology 3011 plus 3012 (10 hrs.) will satisfy the requirement for a biological science.

Professional Degree

CURRICULUM IN GEOLOGY (PROFESSIONAL)

TOTAL SEM. HRS.: 136

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.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1002</td>
<td>3</td>
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<tr>
<td>Geology 1001, 1003 or 2003, 1006, 1601, 1602</td>
<td>0-6</td>
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<tr>
<td>Mathematics 1021, 1022</td>
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<tr>
<td>Approved Group III electives</td>
<td>0-3</td>
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<tr>
<td>Electives</td>
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SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Geology 2081, 2082, 2661, 2666</td>
<td>11</td>
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<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
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<tr>
<td>Modern language (courses 1001, 2051)</td>
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<tr>
<td>Electives</td>
<td>0-4</td>
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<td>21-35</td>
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SUMMER (FOLLOWING SOPHOMORE YEAR)

<table>
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<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Geology 3666</td>
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JUNIOR YEAR

<table>
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<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tr>
<td>English 2001 or 2002</td>
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<td>Geology 2071, 3011, 3012, 4041</td>
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<tr>
<td>Physics 2101, 2102, 2108, 2109</td>
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</tr>
<tr>
<td>Modern language (course 2053)</td>
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SENIOR YEAR

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>Geology 4031</td>
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<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>
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<tr>
<td>Approved electives</td>
<td>4-12</td>
</tr>
<tr>
<td>28-36</td>
<td></td>
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</tbody>
</table>
DEPARTMENT OF HISTORY

CHAIRMAN: Loos, Professor

OFFICE: 224 Himes Hall
TELEPHONE: (504) 388-4471

PROFESSORS: Cooper, Hardy, Hilton, Holtman, Loveland, Noggle, Snyder, Youngs


ASSISTANT PROFESSORS: Farmer, Henderson, Paskoff

Students majoring 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 majoring in history.

A minor in history requires a total of at least 18 hours, including any two-semester six-hour course sequence at the 1000 or 2000 level; three courses at the 3000 or 4000 level; one additional three-hour course in history.

A special curriculum leading to the B.A. degree with departmental honors in history is also offered. Details are available from the departmental office.

The department offers programs of study leading to the M.A. and Ph.D. degrees. The Southern Biography Series and Source Studies in Southern History are edited by faculty members of the Department of History.

SCHOOL OF JOURNALISM

DIRECTOR: Merrill, Professor

OFFICE: 222 Journalism Building
TELEPHONE: (504) 388-2336

PROFESSOR: Hicks

ASSOCIATE PROFESSORS: Featherston, Hebert, Mundt

ASSISTANT PROFESSORS: Broussard, Butler (Assistant Director), Sheldon, Wetherholt

INSTRUCTOR: Fisher

Telecommunications

PROFESSOR: Pennybacker

ASSOCIATE PROFESSOR: Day

ASSISTANT PROFESSORS: d’Hemecourt, Garay, Salvaggio

INSTRUCTORS: Black, McBride

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 photography 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

Journalism students are expected to be proficient in the use of English (see “Degree Requirements of the College”). Proficiency in typewriting is also required. This proficiency should be acquired before students enroll in their first reporting course. All journalism writing assignments must be typewritten.

Nonprofessional Degree

Journalism is available as a major field for students selecting the humanities curriculum in the College of Arts and Sciences. Students majoring in journalism for this 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.
Professional Degree

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 a subject other than journalism (six hours must be numbered 3000 or above) or participate in one of the school's programs of recommended electives.

A special curriculum leading to the Bachelor of Arts in Journalism with departmental honors is offered. Details are available from the School of Journalism.

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 advertising assignments for The Daily Reveille and news and advertising assignments for the campus radio station, WPRG. In addition, students in advanced reporting courses acquire experience with the Baton Rouge Morning Advocate and State-Times and also with various local radio and television stations.

CURRICULUM IN ADVERTISING
TOTAL SEM. HRS.: 128

<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>English 1001, 1002</td>
<td>6</td>
<td>Accounting 2001</td>
<td></td>
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<tr>
<td>Foreign language (at least 3 sem. hrs.)</td>
<td>3-10</td>
<td>Art 2554</td>
<td>3</td>
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<tr>
<td>History 1001, 1003 or Geography 1001, 1003</td>
<td>6</td>
<td>English 2020, 2022; or 2025, 2027</td>
<td>6</td>
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<tr>
<td>Electives or ROTC</td>
<td>2-3</td>
<td>Foreign language through course 2053</td>
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<tr>
<td>Approved science electives</td>
<td>6</td>
<td>History 2055, 2057</td>
<td>6</td>
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<td>Approved electives</td>
<td>0-11</td>
<td>Journalism 2090, 2095, 2151</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Electives or ROTC</td>
<td>3-4</td>
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<tr>
<td></td>
<td>30-36</td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journalism 4030, 4031</td>
<td>6</td>
<td>Journalism 4035, 4036, 4082, 4092</td>
<td>12</td>
</tr>
<tr>
<td>Marketing 3401, 4421</td>
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<td>Approved social science electives</td>
<td>15</td>
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<tr>
<td>Approved journalism electives</td>
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<td>Approved social science electives</td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approved Group I electives (other than English, foreign language, or journalism)</td>
<td>6</td>
<td></td>
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<tr>
<td></td>
<td>33</td>
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</table>
Curriculum in Broadcast Journalism

TOTAL SEM. HRS.: 128

FRESHMAN YEAR
English 1001, 1002 ........................................... 6
Foreign language (at least 3 sem. hrs.)................... 3-10
History 1001, 1003 or Geography 1001, 1003 .... 6
Electives or ROTC .................................. 2-3
Approved science electives .................... 6
Approved electives ................................ 0-11
30-36

JUNIOR YEAR
Journalism 4075, 4078, 4082 ....................... 9
Speech 4072 ............................................. 3
Approved journalism electives ................... 3
Approved social science electives ......... 12
Approved electives ................................ 6
33

SENIOR YEAR
Journalism 4080, 4092, 4141 ............................. 9
Approved journalism electives .............. 6
Approved social science electives .......... 12
Approved electives ................................ 6-3
30-33

Curriculum in News-Editorial

TOTAL SEM. HRS.: 128

FRESHMAN YEAR
English 1001, 1002 ........................................... 6
Foreign language (at least 3 hrs.)........................ 3-10
History 1001, 1003 or Geography 1001, 1003 .... 6
Electives or ROTC .................................. 2-3
Approved science electives .................... 6
Approved electives ................................ 0-11
30-36

JUNIOR YEAR
Journalism 3002, 4042, 4082 ....................... 9
Approved journalism electives ................... 3
Approved social science electives ......... 12
Approved electives ................................ 9
33

SENIOR YEAR
Journalism 4092, 4107, 4141 ............................. 9
Approved journalism electives .............. 6
Approved social science electives .......... 12
Approved electives ................................ 6-3
30-33

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.

Linguistics (Interdepartmental Program)

Director: Buckingham, Associate Professor

An undergraduate minor in linguistics is available. English 2010 and 4012, Speech 2050 and 4150, and nine semester hours of electives are required. Electives may be chosen from one or several of the following areas; however, students are encouraged to choose from at least two different areas. (1) The History of Language—English 4011, French 4001, German 4001; (2) Communication Theory—Speech 4114, 4152, 4153, 4184; (3) Language and Culture—Anthropology 3060, 4060, 4064, 4081, 4082; and (4) Philosophy and Linguistics—Philosophy 2010, 4010, 4914, 4951.

Information on the programs leading to the Master of Arts or Doctor of Philosophy degree with a major in linguistics can be found in the Graduate School Catalog.
DEPARTMENT OF MATHEMATICS

CHAIRMAN: McGehee, Professor
ALUMNI PROFESSOR: Butts
NICHOLSON PROFESSOR OF MATHEMATICS: Conner
PROFESSORS: Altman, Bollobás, Collins, Curtis, Dorroh (Vice-Chairman), Griffin, Keisler, Koch, Lawson, Mitchell, Ohm, Reid, Retherford
ASSOCIATE PROFESSORS: Casler, Cordes (Vice-Chairman), Fabec, Giné, Hildebrant, Kuo, Lax, Nobile, Perlis, Richardson, Stoltzfus, Weintraub
ASSISTANT PROFESSORS: Adkins, Clark, Davis, Delzell, Gilmer, Hoffman, Klein, Lawnczak, Oh, Thomason, Wormald, Yanik

INSTRUCTORS: Bergman, Britt, Broussard, Cangelosi, Clement, Connors, Davis, Da Luz-Dias, Dougherty, Egedy, Garza, Greenwell, Hurt, Jackson, Kochl, Kundu, Marx, McAnelly, Quain, Mihalek, Nikolopoulos, Sadler, Sherrell, Sullivan, Suh, Vaughn, Vidrine, White, Winslow, Ziegler, Zobrist

Students majoring in mathematics will not receive degree credit for mathematics courses numbered below 1550 and they must take a minimum of 31 hours in mathematics courses. Included in this minimum must be MATH 1550 (or 1551), 1552 (or 1553), 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 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 majoring 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.

The requirements for a minor in mathematics are as follows: MATH 1550 (or 1551), 1552 (or 1553), 2057 (or 2058), and 2085 (or 2086) plus three 4000-level courses not including MATH 4005.

No student may receive more than nine semester hours of credit in mathematics courses numbered below 1550. No student who has already received credit for a mathematics course numbered 1550 or above may be registered in a mathematics course numbered below 1550, unless given special permission by the Department of Mathematics.

Honors courses offered in mathematics are MATH 1551, 1553, 2058, and 2086. A special curriculum leading to the B.S. degree with departmental honors in mathematics is offered. Details are available from the departmental office.

DEPARTMENT OF MICROBIOLOGY

CHAIRMAN: Socolofsky, Professor
OFFICE: 508 Life Sciences Building
TELEPHONE: (504) 388-2601

PROFESSORS: Amborski, Braymer, Larkin, Larson, Siebeling, Srinivasan
ASSOCIATE PROFESSOR: Orlowski

Students majoring 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 major field, four 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 1550, 1552, and Zoology 2153, 2154.

DEPARTMENT OF MILITARY SCIENCE

COMMANDANT OF CADETS: Fitzmorris, Professor
OFFICE: 106 Military Science/Aerospace Studies Building
TELEPHONE: (504) 388-2371

ASSISTANT PROFESSORS: Garabato, Snedden, Wood
INSTRUCTORS: Myles, Sanchez

For information on this department's program, see the "Reserve Officers Training Corps" section of this catalog.
DEPARTMENT OF PHILOSOPHY

CHAIRMAN: Henderson, Associate Professor
PROFESSOR: Bigger
ASSOCIATE PROFESSORS: Baker, Shirley, Sirridge, Smith, Whittaker
ASSISTANT PROFESSORS: Sarkar, Schufrieder

Philosophy

Philosophy, a basic part of a university education, examines concepts, methods, and values related to all forms of human enterprise and experience. It provides a comprehensive understanding to help establish perspective and put the many sides of life together. The study of philosophy also aids in developing rational analysis, thought, and expression. The Department of Philosophy offers a wide range of courses dealing with the basic philosophical themes and questions and with the great minds of the ages. An undergraduate major or minor in philosophy provides background for further study in law, journalism, computer science, history, linguistics, literature, medicine, the business disciplines, and other fields.

Electives in philosophy. Some philosophy courses deal with problems and issues which arise in other fields of study and in the practice of certain professions and vocations. Such courses include professional ethics, bioethics, philosophy of art, philosophy of science, and philosophy and film. Logic is especially recommended for students in business, journalism, and pre-law. The ethics courses are especially recommended for students in business, education, engineering, journalism, pre-law, pre-medicine, nursing, and other health related fields. See course descriptions for details.

Requirements for a major in philosophy. Students majoring in philosophy are required to take PHIL 2010 or 4010; 2018 or 2020 or 2025; 2033; and 2035, along with electives to make a total of 27 hours. At least 12 of the 27 hours of philosophy must be in courses numbered at the 3000 and/or 4000 level. Degree credit will not be allowed for more than six hours in courses numbered below 2000.

Requirements for a minor in philosophy. A minor in philosophy requires 15 hours of philosophy, at least six of which must be at the 3000/4000 level.

Honors in philosophy. Several honors tutorials and seminars are offered for qualified students (PHIL 2034, 2036, 2952, 2953, 2963, 2964, 2965, 3901, and 3902), and a special curriculum leading to the B.A. degree with departmental honors in philosophy is offered. Details are available from the departmental office.

Religious Studies

The Department of Philosophy also offers courses in the academic study of religion, including a minor in religious studies for those who want to study religious thought, experience, institutions, and texts systematically and extensively. Because of their general nature, such courses make excellent electives. They are not intended as professional courses, although pre-seminarians will find them to be good preparation for post-baccalaureate theology training. Other departments also offer courses related to religious studies, as indicated in the description of the minor. For further information, contact the department.

Requirements for a minor in religious studies. A minor in religious studies consists of (1) 12 semester hours of religious studies courses including at least three hours in western religions and at least three hours in eastern religions and (2) at least six semester hours of approved electives selected from ANTH 4031; ART 4405, 4406, 4412; ENGL 3236, 4124; GREEK 2053 or above; HEBR 4001 or above; HIST 4011, 4113, 4161; LATN 2053 or above; MUS 4755, 4756; PHIL 4954; POLI 4033; and SOCL 4441. The total 18 semester hours must include at least six courses taken at the 3000 level or above.

DEPARTMENT OF POLITICAL SCIENCE

CHAIRMAN: Eubanks, Associate Professor
PROFESSORS: Arango, Bolner, Crabb, Sandoz, Weber
ASSOCIATE PROFESSORS: Cárdenas, Falkowski
ASSISTANT PROFESSOR: Broughton, Grosset, Jillson, Lomperis, Mulcahy, Zwick
INSTRUCTOR: Morehouse

Students majoring 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 toward fulfilling the 33 hours required of majors. No course shall be accepted as meeting the requirements for more than one area.

Students interested in preparing for careers in government should schedule the following courses to meet area distribution requirements: American government and politics—POLI 2051, 4010, 4011, and 4015;
political theory—POLI 2060 and one other course in that area; international politics and law—POLI 4043 and 4071. Further details on relevant courses and advice concerning career opportunities in public service are available from the department.

The requirements for a minor in political science are POLI 2051 and 15 additional hours in political science; six of the 18 hours in political science must be at the 3000 level or above.

Honors work in political science is provided through POLI 2052, 3000, 3896, and 3897. A special curriculum leading to the B.A. with departmental honors in political science is offered. Details are available from the departmental office.

DEPARTMENT OF PSYCHOLOGY

CHAIRMAN: Siegel, Professor
ALUMNI PROFESSOR: Timmons
BOYD PROFESSOR: Riopelle
PROFESSORS: Dreger, Gottfried, Hoffeld, Seay, Waters, Young
ASSOCIATE PROFESSORS: Blouin, Coon, S. Jensen, Lane, Mathews, Pereboom, Prexholdt, Pryor, Tuma, Williamson, Yang
ASSISTANT PROFESSORS: Brantley, Campbell, Gresham, Hawkins, B. Jensen, Osborne, Rosenkrantz
INSTRUCTOR: Buss

Students majoring in psychology must take Psychology 2000, 2011, 2017, 3018 or 3020, and 4008; and 15 or more additional hours (at least nine of which must be numbered 3000 or above) as follows: 

Group 1 (minimum of six hrs. required): Psychology 2004, 2040, 3050, 3081, 3082, 3083, 3140, 4070; Group 2 (minimum of six hrs. required): Psychology 3018 or 3020 (if not taken above), 4111, 4031, 4032, 4033, 4034, 4036, 4038; Group 3 (no hours required; maximum of six hrs. permitted): Psychology 2060, 2076, 2078, 4160, 4176, 4178.

A student must complete the following 15 hours to graduate with a minor in psychology: Psychology 2000—3 hours; two courses from Group 1—6 hours; two courses from Group 2—6 hours (all courses in Group 2 are 3000 or above).

RUSSIAN AREA STUDIES (INTERDEPARTMENTAL PROGRAM)

PROFESSOR: Hart
ASSOCIATE PROFESSORS: Owen, Poponjac, Rjoider
ASSISTANT PROFESSORS: Kaszkurewicz, Linz, Zwick

Students majoring in Russian area studies must complete 30 semester hours chosen from courses listed in the following areas: Economics 4015, 4020, 4025; History 4029, 4030, 4031, 4032, 4033, 4034, 4035, 4036; Political Science 4070, 4071, 4072, 4073; and Russian 2061, 2062, 2071, 2075, 4002, 4030, 4031, 4032, 4033, 4061, 4081, 4082, 4915. A minimum of 15 hours must be taken in one subject, a minimum of six hours in each of two others, and a minimum of three in the other. Please note that Economics 2030 or 2010 and 2020 are prerequisite for the economics courses. 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.

A minor in Russian area studies consists of at least 18 hours in the courses listed in the Russian area studies curriculum, including at least one course each in Russian, political science, history, and economics. Only one course in the student's major field may be counted toward the minor in Russian area studies. Six hours must be at the 3000 and/or 4000-level.

DEPARTMENT OF SOCIOLOGY

CHAIRMAN: Nelsen, Professor
PROFESSORS: Howard, Jenkins, Jones, Purtle
ASSOCIATE PROFESSORS: Andreaesen, Deseran, Durant, Falk, Grimes, Perez
ASSISTANT PROFESSORS: Bankston, Cunningham, Ohlendorf

1Department of Classical, Germanic, and Slavic Languages.
2Department of History.
3Department of Economics.
4Department of Political Science.
Functions of the department are to conduct teaching and research in the College of Arts and Sciences and the Graduate School, to provide an undergraduate degree program in rural sociology, and to conduct research in rural sociology for the Louisiana Agricultural Experiment Station. The department is research-oriented and committed to the further development of sociology as a science as well as to the application of sociological principles in societal programs. With respect to its teaching responsibilities, the department contributes to pre-professional preparation of undergraduates in the Colleges of Arts and Sciences and Agriculture and develops professional sociologists at the graduate level.

Students in the College of Arts and Sciences majoring 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 these four courses. At least one course at the 3000 level or above must be selected from each of the five major content areas: social organization (SOCL 4301, 4311, 4321, 4331, 4341, 4351, 4361); social institutions (SOCL 4401, 4411, 4421, 4431, 4441, 4451, 4461, 4471); social issues (SOCL 3501, 3505, 4501, 4511, 4521, 4531, 4551, 4561); social interaction (SOCL 3601, 3605, 4601, 4611, 4621); and population and ecology (SOCL 4701, 4711). Mathematics 1015 or 1021 and Philosophy 1021 are required. All sociology majors who are seniors are required to take a departmental examination in basic sociological concepts, theories, and methods. Sociology majors are strongly advised to schedule all College of Arts and Sciences and departmental lower-level requirements in their first two years.

In order to graduate with a minor in sociology, students are required to complete SOCL 2001 and at least 12 additional hours in sociology, six semester hours of which must be in courses at the 3000 level or above. A special program leading to the B.A. degree with departmental honors in sociology is also offered. Detailed information is available from the departmental office.

The Bachelor of Science degree with a major in rural sociology is offered through the College of Agriculture. Curricular requirements for this degree are shown in the "College of Agriculture" section.

Both the M.A. and Ph.D degrees are offered. Information about these degrees is available from the departmental office.

DEPARTMENT OF SPANISH AND PORTUGUESE

CHAIRMAN: Ricapito, Professor
PROFESSORS: de Armas, Lozada, Lunardini
ASSOCIATE PROFESSORS: Kirby, Parker
ASSISTANT PROFESSORS: Del Rio, Kill, Powers, Quance

Beginning and intermediate Spanish and Portuguese are taken in the following sequence: 1001, 2051, 2053, and 2055. In the beginning courses, emphasis is placed on the early development of skill of understanding and speaking, and extensive use is made of tape recordings in the Language Laboratory. Intermediate courses place increased emphasis on reading and writing as well as oral-aural practice.

Natives of countries where Spanish or Portuguese is the current and official language may not take for credit courses numbered below 2061. A minimum of 32 semester hours in courses at the 2000, 3000, or 4000 level must be taken for a major in Spanish, including courses 2061, 2062, 3071, and 3072.

Students majoring in Spanish are urged to elect English 2020, 2022 (in lieu of 2025, 2027) and Speech 4150. Those planning to do graduate study in any of the modern romance languages are further advised to elect one or more courses in Latin.

Requirements for a Spanish minor are completion of at least 15-18 hours in Spanish, at least six hours of which must be at the 3000 and/or 4000 level. Spanish honors courses are 2052, 2054, and 2056. A special curriculum leading to the B.A. degree with departmental honors in Spanish is also available. Details may be obtained from the departmental office.

DEPARTMENT OF SPEECH

ACTING CHAIRMAN: HopKins, Professor

Speech

PROFESSORS: Merritt, Peterson Ragsdale
ASSOCIATE PROFESSORS: Mixon, Patton
ASSISTANT PROFESSORS: Becker, Cooper, Long
INSTRUCTORS: Coates, Greene, Merrill
Speech Pathology and Audiology

PROFESSOR: Gilmore
ASSOCIATE PROFESSORS: Buckingham, Dixit, Jetty
ASSISTANT PROFESSORS: Hudson, Mangan, Tani, Wiegel-Crump
INSTRUCTORS: Dykes, Hamilton, Travis

OFFICE: 155 Music & Dramatic Arts Building
TELEPHONE: (504) 388-2545

Theatre

PROFESSORS: Dennis, Doty, Harbin
ASSOCIATE PROFESSOR: Tandberg
ASSISTANT PROFESSOR: Anderson

OFFICE: 217 Music & Dramatic Arts Building
TELEPHONE: (504) 388-4174

Requirements for Undergraduate Students Majoring in Speech

Students majoring 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 pathology and audiology; theatre; telecommunications; 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 Undergraduate Students Minoring in Speech

For a minor in speech, a student must earn a minimum of 15-18 hours in speech, of which at least six semester hours must be in courses numbered above 3000.

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 concentrating in speech pathology and audiology must maintain a minimum of five hours of clinical services per week while enrolled in the program.

*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 these 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 College of Arts and Sciences or the College of Education.

***
and
1201-1202, 1208-1209
take
1552.

Astronomy or courses must 4162, 4647, 4673; 1208-1209, chemistry systematics-ecology.

ASSISTANT ASSOCIATE ACTING

AUDIOLGY

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Students

Marine

Those requesting clinical services should contact the Speech and Hearing Clinic, Music and Dramatic Arts Building.

DEPARTMENT OF ZOOLOGY AND PHYSIOLOGY

ACTING CHAIRMAN: Socolofsky, Professor*

PROFESSORS: Corkum, Harman, Lee, Meier, Rossman, Woodring

ASSOCIATE PROFESSORS: Caprio, Dietz, Fitzsimons, Stickle, Weidner

ASSISTANT PROFESSORS: Collins, Fleeger, Hafner, Homberger, Remsen, Silverman

Undergraduate Major: Students choosing zoology as their major 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.

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.

PROGRAMS ADMINISTERED BY THE COLLEGE

Astronomy

A student who wishes to elect astronomy as the field of concentration for the Bachelor of Science degree will take the following courses: Mathematics 1550, 1552, 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.

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 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 1552;

b. Physics 2101-2102, 2108-2109;

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: Mathematics 1550, 1552, 2057, 2065, and a three-hour course numbered above 4014; Chemistry 1201, 1202, 1212; and Physics 1201-1202, 1208-1209 (or 2101-2102, 2108-2109), 2111, 2209, 2221, 2231, 4132, 4141, 4142, 4198, and 4135 or 4125 or 4122.

*Department of Microbiology.
Computer Science

In order to graduate with a minor in computer science, students in the College of Arts and Sciences must complete Mathematics 1550, 1552; Computer Science 1241, 1251, 2252, and 3102; Computer Science 2263 or 2280; Computer Science 4101 or 4103; and three additional hours of computer science courses numbered 3000 or above.

Economics

Students majoring in economics in the College of Arts and Sciences are required to take Economics 2010, 2020, 2035, and 4720. Other economics courses (at least 30 semester hours required for the major) must be chosen with the advice and approval of the arts and sciences adviser in the Department of Economics. Students are encouraged to take a calculus course. The job placement service of the College of Business Administration is available to graduates with this major.

Fine Arts

Students majoring in fine arts in the College of Arts and Sciences may concentrate in either studio art or art history. The following courses are required.

Studio Art: Art 1001, 1011, 1361 or 1371, 1440, 1761, 1847, 1848, 2551, 2881, and an additional 12 hours including nine hours in studio courses numbered above 3000.

Art History: Art 1440 and 1441; three hours each in ancient, medieval, renaissance, baroque, and modern art; and 12-15 hours of art history electives. Art 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.

Music (music history and literature, theory, or performance)

In order to meet the music course requirements for the B.A. degree with a major in music, as set forth by the National Association of Schools of Music, of which the LSU School of Music is a member, a student must complete the courses listed below.

CONCENTRATION IN MUSIC HISTORY AND LITERATURE

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Music 1700 (four semesters)</td>
<td>0</td>
<td>Piano proficiency (two years beyond</td>
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<tr>
<td>Music 1701, 1702, 1753, 1754, 2711, 2712,</td>
<td>4723, 4751, 4752</td>
<td>MUS 1106)............................ 12</td>
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<tr>
<td>Music 3711 or 4730</td>
<td>2-3</td>
<td>Electives (select from MUS 3750, 3751, 3752,</td>
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<tr>
<td>Ensemble (two semesters)</td>
<td>2</td>
<td>3757, 3758, 4753, 4754, 4755, 4756,</td>
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<td>4757, 4758).......................... 7</td>
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CONCENTRATION IN THEORY

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<th>Course</th>
<th>SEM. HRS.</th>
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<tr>
<td>Music 1700 (four semesters)</td>
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<td>Ensemble (two semesters).......................... 2</td>
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<tr>
<td>Music 1701, 1702, 1753, 1754, 2711, 2712,</td>
<td>3711, 4719, 4723, 4730, 4751, 4752</td>
<td>Piano proficiency (two years beyond</td>
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<td>35</td>
<td>MUS 1106)............................ 12</td>
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CONCENTRATION IN PERFORMANCE

This degree is not professional and is not preparation for graduate study with an applied major.

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<th>Course</th>
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<td>Music 1700 (four semesters)</td>
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<td>Applied music............................. 21</td>
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<tr>
<td>Music 1701, 1702, 1753, 1754, 2711, 2712,</td>
<td>3711, 4751, 4752</td>
<td>Ensemble (two semesters).......................... 2</td>
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<td>27</td>
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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.

<table>
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<th>DEPARTMENTS</th>
<th>CURRICULA</th>
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<tr>
<td>Accounting</td>
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<td>Bachelor of Science</td>
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<td>Business Communications and Office Systems</td>
<td>Office Administration</td>
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<td>Economics</td>
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<td>Quantitative Business Analysis</td>
<td>Quantitative Methods (with options)</td>
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<tr>
<td></td>
<td>General Business Administration (with option)</td>
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</tbody>
</table>
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" or above 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 or Arts and Sciences 1001/1003 or 1002/1004; 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 1431, 1435. Math 1550 may be substituted for 1431 and Math 2085 may be substituted for 1435. 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 1202; Geology 1001, 1003; Physics 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, art, arts and sciences, economics (Economics 1010 or 1050), English, 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; BCOS 2071; Economics 2035; Finance 3201; QBA 2000, 2001.

2. Functional Areas (9 hrs.): Finance 3715; Marketing 3401; QBA 3115.

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 12 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 HPRD 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 EDUCATION, RECREATION, AND DANCE**

Up to six semester hours in ROTC may be elected. HPRD courses are not required of either men or women; however, up to four semester hours of HPRD 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, HPRD, 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.

**CORRESPONDENCE AND EXTENSION CREDIT**

Special restrictions apply to correspondence and extension credits being used for degree credit. Approval from the Office of the Dean must be obtained for use of such credits.
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 Business Analysis and the Hebert Law Center cooperate in offering this interdepartmental degree program.
# Departments and Curricula

## GENERAL BUSINESS ADMINISTRATION

### CURRICULUM IN GENERAL BUSINESS ADMINISTRATION

**TOTAL SEM. HRS.: 128**

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Computer Science 1240 or 1241</td>
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<tr>
<td>English 1002 or 1003</td>
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<tr>
<td>Mathematics 1431, 1435</td>
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<tr>
<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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<td>Electives*</td>
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<td>QBA 3115</td>
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<td>Marketing 3401</td>
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</table>

**If ROTC is elected, see "Degree Requirements of the College."**


**To be selected from offerings of at least four of the following: Departments of Accounting, Economics, Finance, Management, Marketing, and Quantitative Business Analysis.**

### CURRICULUM IN GENERAL BUSINESS ADMINISTRATION (OPTION IN PRE-LAW)

**TOTAL SEM. HRS.: 128**

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
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<td>Economics 2035</td>
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<td>Management 4164 or 4167</td>
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<td>Electives (3000-level or above)</td>
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**33**
DEPARTMENT OF ACCOUNTING

CHAIRMAN: Brenner, Professor
PROFESSORS: Hartman, McCameron, Swyers
ASSOCIATE PROFESSORS: Kyle, Orbach, Trapnell, Winters
ASSISTANT PROFESSORS: Agudelo, Curatola, Fields, Samson, Sumners, White
INSTRUCTORS: Hoffman

CURRICULUM IN ACCOUNTING
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

<table>
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<th>SENIOR YEAR</th>
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<td>Accounting 3222</td>
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DEPARTMENT OF BUSINESS COMMUNICATIONS AND OFFICE SYSTEMS

CHAIRMAN: Golen, Associate Professor
ASSISTANT PROFESSORS: Smeltzer, Waltman, White
INSTRUCTORS: Fontenot, Glab, Jones, Powers, Sheffield, Titkemeyer

For students majoring in office administration may elect courses in two areas: office operations, which is directed toward careers such as administrative office managers and information processing managers; and secretarial administration, which is directed toward careers such as administrative assistants and executive secretaries.

CURRICULUM IN OFFICE ADMINISTRATION
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

<table>
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<tr>
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<td>Business administration electives</td>
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DEPARTMENT OF ECONOMICS

CHAIRMAN: Rice, Associate Professor
ALUMNI PROFESSOR: Payne
PROFESSORS: Beard, Campbell, Culbertson, Daly, Flammang, Johnson, Jones, Melton, Scott, Smith
ASSOCIATE PROFESSORS: Farber, Lee, Richardson
ASSISTANT PROFESSORS: Deyak, Linz, Martin, McElwain, Zee
INSTRUCTOR: Birch

DEPARTMENT OF ACCOUNTING
OFFICE: 3101 CEBA Building
TELEPHONE: (504) 388-6202

DEPARTMENT OF BUSINESS COMMUNICATIONS AND OFFICE SYSTEMS
OFFICE: 3149 CEBA Building
TELEPHONE: (504) 388-5385

DEPARTMENT OF ECONOMICS
OFFICE: 2107 CEBA Building
TELEPHONE: (504) 388-5211
CURRICULUM IN BUSINESS AND PUBLIC ADMINISTRATION
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

JUNIOR YEAR SEM. HRS. SENIOR YEAR SEM. HRS.
Accounting 4421 ........................................ 3 Business Administration 3190 ..................... 3
Economics 2035, 4110 .................................. 6 Economics 4420 or 4440 .......................... 3
Finance 3201, 3715 ................................... 6 Political Science 4010, 4015 ..................... 3
Management 3159 ...................................... 3 Political science electives (select from Political
Marketing 3401 ......................................... 3 Science 4020, 4022, 4041, 4043) .......... 3
Political Science 2051 ................................ 3 Approved general electives ................. 5
QBA 3115 .................................................. 3 Electives ........................................... 9
Economics electives (select from Economics
4120, 4410, 4520, 4550, 4560) ....................... 3 29
Approved general electives .......................... 3 33

CURRICULUM IN ECONOMICS
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

JUNIOR YEAR SEM. HRS. SENIOR YEAR SEM. HRS.
Economics 2035, 4720 .................................. 6 Business Administration 3190 ..................... 3
Finance 3201, 3715 ................................... 6 Economics electives ............................ 12
Management 3159 ...................................... 3 Approved general electives ................. 5
Marketing 3401 ......................................... 3 Electives ........................................... 9
QBA 3115 .................................................. 3 29
Economics electives .................................... 9
Approved general electives .......................... 3 33

CURRICULUM IN INTERNATIONAL TRADE AND FINANCE
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

JUNIOR YEAR SEM. HRS. SENIOR YEAR SEM. HRS.
Economics 2035, 4030, 4040, 4520 .................... 12 Business Administration 3190 ..................... 3
Finance 3201, 3715 ................................... 6 Economics 4410, 4550 ............................ 6
Management 3159 ...................................... 3 Management 4140 ................................ 3
Marketing 3401 ......................................... 3 Marketing 4443 ................................ 3
Political Science 2053 ................................ 3 Approved general electives ................. 5
QBA 3115 .................................................. 3 Electives ........................................... 9
Approved general electives .......................... 3 29

CURRICULUM IN TRANSPORTATION
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

JUNIOR YEAR SEM. HRS. SENIOR YEAR SEM. HRS.
Economics 2035, 4410, 4450, 4520 .................... 12 Business Administration 3190 ..................... 3
Finance 3201, 3715 ................................... 6 Economics 4210, 4430, 4460, 4550 ........ 12
Management 3159 ...................................... 3 Approved general electives ................. 5
Marketing 3401 ......................................... 3 Electives ........................................... 9
Political Science 2051 ................................ 3 29
QBA 3115 .................................................. 3
Approved general electives .......................... 3 33

DEPARTMENT OF FINANCE

CHAIRMAN: Crary, Professor
ALUMNI PROFESSOR: Davidson
PROFESSORS: Felton, Schroeder, Staats, Woodland

OFFICE: 2163 CEBA Building
TELEPHONE: (504) 388-6291
ASSOCIATE PROFESSOR: Martin  
ASSISTANT PROFESSORS: Blomeyer, Breaux, Cordell, Hyde, Lane, Wansley  
INSTRUCTORS: Caks, Cary, Johnson, Shilling

CURRICULUM IN COMMERCIAL BANKING
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

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CURRICULUM IN FINANCE
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

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CURRICULUM IN REAL ESTATE
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

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CURRICULUM IN RISK AND INSURANCE
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

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<td>Finance 3351, 3441, 3442, 4440</td>
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</table>
**DEPARTMENT OF MANAGEMENT**

**CHAIRMAN:** Gray, Professor  
**PROFESSORS:** Fletcher, Harris, McCann  
**ASSOCIATE PROFESSORS:** Kedia, Leap, Oliva, Wallin  
**ASSISTANT PROFESSORS:** Crino, Grigsby, White  
**INSTRUCTOR:** Daboub

**CURRICULUM IN INDUSTRIAL MANAGEMENT**  
**TOTAL SEM. HRS.: 128**

<table>
<thead>
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<td>Management 3190, 4167</td>
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<td>Approved general electives</td>
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<th>SEM. HRS.</th>
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**CURRICULUM IN MANAGEMENT AND ADMINISTRATION**  
**TOTAL SEM. HRS.: 128**

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<td>Anthropology 4081, Psychology 2040, or Sociology 4301</td>
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<td>Management 3127, 3190, 3193, 4140, 4167</td>
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<td>Approved general electives</td>
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<td>Finance 3201, 3715</td>
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<td>9</td>
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<tr>
<td>Management 3159, 4164</td>
<td>3</td>
<td>[ 29 ]</td>
<td></td>
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<tr>
<td>Marketing 3401</td>
<td>3</td>
<td>[ 29 ]</td>
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<tr>
<td>QBA 3115</td>
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<td>Approved general electives</td>
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**CURRICULUM IN PETROLEUM LAND MANAGEMENT**  
**TOTAL SEM. HRS.: 134**

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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Engineering Graphics 1001</td>
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<td>BCOS 2071</td>
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<td>English 1002 or 1003</td>
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<td>Economics 2010, 2020</td>
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<tr>
<td>Geology 1001, 1003, 1601, 1602</td>
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<td>English course above 2000</td>
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<td>Mathematics 1431, 1435</td>
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<td>Geology 2001, 2661</td>
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<td>Speech 1061 or 1062</td>
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<td>Petroleum Engineering 2020</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Geology 4131 or 4165</td>
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<td>Economics 2035</td>
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<td>Management 3190</td>
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<td>Finance 3201, 3202, 3205, 3355, 3715</td>
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<td>Management 3193 or 4140</td>
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<td>Geology 3031 or 4031</td>
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<td>Management 4164 or 4167</td>
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<td>Geology 4042</td>
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<td>Petroleum Engineering 3035</td>
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<td>Management 3000, 3159</td>
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<td>Marketing 3401</td>
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<td>General electives</td>
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<tr>
<td>QBA 3115</td>
<td>3</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>[ 37 ]</td>
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</table>

*If ROTC is elected, see "Degree Requirements of the College."
DEPARTMENT OF MARKETING

CHAIRMAN: Hair, Professor
PROFESSOR: Reddoch
ASSOCIATE PROFESSORS: Burns, Bush, Endsley, Harrison
ASSISTANT PROFESSORS: DeVere, Reidenbach, Sherrell

OFFICE: 3127 CEBA Building
TELEPHONE: (504) 388-8684

CURRICULUM IN MARKETING
TOTAL SEM. HRS.: 128

For the first two years, see the General Business Administration curriculum.

JUNIOR YEAR SEM. HRS. SENIOR YEAR SEM. HRS.
Economics 2035 ........................................... 3 Business Administration 3190 ......................... 3
Finance 3201, 3715 ..................................... 6 Marketing 4451 ........................................ 3
Management 3159 ........................................ 3 Approved general electives .......................... 5
Marketing 3401, 3411, 3413 ......................... 9 Marketing electives .................................... 6
QBA 3115 ................................................ 3 Electives (approved by department) .............. 3
Approved general electives .......................... 3 Electives .............................................. 9
Marketing electives .................................... 3
Electives (approved by department) .............. 3

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DEPARTMENT OF QUANTITATIVE BUSINESS ANALYSIS

CHAIRMAN: Peters, Professor
PROFESSORS: Burford, Cangelosi, Hargrave, Thompson
ASSOCIATE PROFESSORS: Williams, Willis
ASSISTANT PROFESSORS: Gulledge, Looney, Ringuest
INSTRUCTORS: Beck, Lanier, Noell, Zarruk

OFFICE: 3190 CEBA Building
TELEPHONE: (504) 388-2126

The Department of Quantitative Business Analysis 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, 3102, 3371, 4101, 4102, 4103, 4304, 4321, 4354, 4355; Industrial Engineering 4382, 4453, 4511, 4540; Mathematics 2065, 4016, 4023, 4031, 4032, 4153, 4171, 4172; QBA 3070, 4000, 4010, 4011, 4012, 4013, 4021, 4031. No more than 6 sem. hrs. may be taken in courses outside the Department of Quantitative Business Analysis.

CURRICULUM IN QUANTITATIVE METHODS (BUSINESS ADMINISTRATION OPTION)
TOTAL SEM. HRS.: 128

FRESHMAN YEAR SEM. HRS. SOPHOMORE YEAR SEM. HRS.
Computer Science 1240 or 1241 ...................... 3 Accounting 2001 ...................................... 3
English 1002 or 1003*. ................................ 3 Accounting 2021 or 2101 ......................... 3
Mathematics 1431, 1435* ................................ 6 BCOS 2071 ............................................. 3
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 Computer Science 1251 or 3371 .................... 3
Speech 1061 or 1062 .................................. 3 Economics 2010, 2020 ................................. 6
Approved general electives* ......................... 5 English course numbered 2000 or above ......... 3
Electives* .............................................. 3 Electives* ............................................. 6

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*It is highly recommended that students majoring in quantitative methods substitute Math 1550, 1552, 2085 for Math 1431, 1435. The additional seven sem. hrs. required may be counted as approved general electives, provided no more than 39 sem. hrs. of courses numbered below 2000 are submitted for degree credit.

**If ROTC is elected, see "Degree Requirements of the College."
JUNIOR YEAR |
<table>
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<tr>
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<tr>
<td>Management 3159</td>
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<tr>
<td>Marketing 3401</td>
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<td>QBA 3000, 3115, 4020</td>
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<td>Approved electives (List Q)</td>
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CURRICULUM IN QUANTITATIVE METHODS (COMPUTER SCIENCE OPTION)

FRESHMAN YEAR |
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<td>Mathematics 1431, 1435*</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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<td>Approved general electives*</td>
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<td>Electives**</td>
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JUNIOR YEAR |
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<tr>
<td>Economics 2035</td>
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<td>Management 3159</td>
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<td>Marketing 3401</td>
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<td>QBA 3000, 3115, 4020</td>
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SENIOR YEAR |
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<td>Business Administration 3190</td>
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<td>Approved general electives</td>
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</table>

**It is highly recommended that students majoring in quantitative methods substitute Math 1550, 1552, 2085 for Math 1431, 1435. The additional seven sem. hrs. required may be counted as approved general electives, provided no more than 39 sem. hrs. of courses numbered below 2000 are submitted for degree credit.

**If ROTC is elected, see "Degree Requirement of the College."

CURRICULUM IN QUANTITATIVE METHODS (MANAGEMENT SCIENCE OPTION)

FRESHMAN YEAR |
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<td>Biology 1001, 1002, 1003, 1004 or Zoology 1001, 1002</td>
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SOPHOMORE YEAR |
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<td>BCOS 2071</td>
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32
**JUNIOR YEAR**

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<td>Computer Science 1251</td>
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<td>Economics 2035</td>
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<td>English course numbered 2000 or above</td>
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<td>Management 3159</td>
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<td>Marketing 3401</td>
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<td>Mathematics 2057</td>
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**SENIOR YEAR**

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*If ROTC is elected, see "Degree Requirements of the College."

**DIVISION OF RESEARCH**

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.

**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, and in physics and astronomy. It also provides strong academic backgrounds for professional study in medicine, dentistry, the allied health professions, and for

DEPARTMENTS

- Biochemistry
- Chemistry
- Computer Science
- Physics and Astronomy

CURRICULA

- Biochemistry (with option)
- Basic Chemistry (with options)
- Computer Science
- Physics (with options)

DEGREES

- Bachelor of Science

Allied Health Programs *

- Dental Hygiene
- Medical Record Administration
- Occupational Therapy
- Physical Therapy
- Radiologic Technology
- Rehabilitation Counseling
- Respiratory Therapy

- Cytotechnology

- Medical Technology

Bachelor of Science in Cytotechnology

Bachelor of Science in Medical Technology

* 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.
many other careers that require in-depth study of science. The departments within the college, the various curricula, and the degrees which may be earned are shown in the preceding chart. These curricula provide broad general education as well as knowledge of the structure of science. 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 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 accepted toward meeting degree requirements 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 HPRD may be taken for elective credit. A maximum of three semester hours will be allowed in HPRD participation (activity) courses. Students taking three or more hours of basic ROTC courses may not also count toward their degrees credits obtained in HPRD 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**

**HEAD:** Allen, Professor

**PROFESSORS:** Chang, Younathan

**ASSOCIATE PROFESSOR:** Risinger

**ASSISTANT PROFESSORS:** Bartlett, Blakeney, Deutsch, Montelaro, Shih

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 six semester hours 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, 1212</td>
<td>8</td>
<td>Biochemistry 2261, 2262, 2463</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Computer Science 1240 or 1241</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
<td>English course above 2000 or Speech 2060</td>
<td>3</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
<td>Microbiology 2051</td>
<td>4</td>
</tr>
<tr>
<td>Approved electives</td>
<td>2</td>
<td>Physics 1201-1202, 1208-1209; or 2101-2102, 2108-2109</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
<td>Approved electives</td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 2251, 2252, 2464, 4491-4492</td>
<td>13</td>
<td>Biochemistry 4385, 4390, 4393, 4394</td>
<td>10</td>
</tr>
<tr>
<td>Foreign language (French, German, or Russian)</td>
<td>10</td>
<td>Chemistry 4493</td>
<td>2</td>
</tr>
<tr>
<td>Approved electives</td>
<td>10</td>
<td>Chemistry 4561, 4562, 4594, Biochemistry 4397 or 4595</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
<td>Approved electives</td>
<td><strong>19</strong></td>
</tr>
</tbody>
</table>

### CURRICULUM IN BIOCHEMISTRY (PREPROFESSIONAL SCIENCE OPTION—PRE-MEDICINE, PRE-DENTISTRY, OR PRE-PHARMACY)

**TOTAL SEM. HRS.: 134**

*This option is not intended for students planning to enter graduate study in biochemistry.*

**Electives:** Eighteen semester hours of electives must be taken in social sciences and humanities; 17-18 semester hours are free electives. If MATH 1021 and 1022 are taken, the total number of free electives will be reduced by one semester hour. Free electives in the freshman and sophomore years may include a total of six semester hours of basic ROTC. The advanced science or mathematics electives will be selected with approval of the departmental adviser and the dean of the college and may be used to satisfy any particular or unusual requirements of the professional school of the student's choice.

<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, 1212</td>
<td>8</td>
<td>Chemistry 2261, 2262, 2364</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English course above 2000 or Speech 2060</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1023, 1550; or 1021, 1022, 1550</td>
<td>10</td>
<td>Microbiology 2051</td>
<td>4</td>
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<tr>
<td>Approved electives</td>
<td>2</td>
<td>Computer science electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
<td>Approved electives</td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>
JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry 4001</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 2251, 2252</td>
<td>5</td>
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<tr>
<td>Foreign language</td>
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<tr>
<td>Biological science electives</td>
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<td>Approved electives</td>
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</table>

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry 4083, 4084, 4385, 4390</td>
<td>10</td>
</tr>
<tr>
<td>Approved advanced science or mathematics electives</td>
<td>9</td>
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<tr>
<td>Approved electives</td>
<td>15</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34</strong></td>
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</tbody>
</table>

DEPARTMENT OF CHEMISTRY

CHAIRMAN: Daly, Professor
BOYD PROFESSORS: McGlynn, Pyor
PROFESSORS: Baddley, Berg, Bhacca, Carpenter, Cartledge, Daly, Day, Fischer, Hodgeson, Kestner, Koenig, Mattice, Nauman, Newkome, Robinson, Runnels, Selbin, Sen, Traynham, Wharton, Williams
ASSOCIATE PROFESSORS: Burnett, Gandour, Hales, Schwartz, Vidaurreta, Watkins
ASSISTANT PROFESSORS: Cherry, Gale, Skolnick

Through two curricula offered by the Department of Chemistry, students obtain a thorough working knowledge of the fundamentals of the various branches of chemistry, supplemented by study in physics, mathematics, and other sciences. Both programs are further enriched by the requirement of a broad basic background in the social sciences and humanities. The department offers special lecture and laboratory courses (or special sections of courses) for its majors.

The curriculum in basic chemistry (with options) includes 62 semester hours of elective credit, 25-30 of which must constitute an approved option. Among the traditional options is a program that specifically prepares students for graduate study in chemistry. Students may also combine basic chemical education with an emphasis in a second area, with approval of the dean. This program will permit emphasis in many areas where 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 six sem. hrs. of basic ROTC.**

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1202 or 1421; 1422*; 1431*</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>33</strong></td>
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</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1432, 2261, 2262, 2463</td>
<td>11</td>
</tr>
<tr>
<td>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>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34</strong></td>
</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 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>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 4493 or 4553</td>
<td>2</td>
</tr>
<tr>
<td>Chemistry 4552</td>
<td>2</td>
</tr>
<tr>
<td>Approved electives</td>
<td>29</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>33</strong></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 six 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

CHAIRMAN: Rudd, Professor
ASSOCIATE PROFESSORS: J. B. Jones, Kraft, Tyler
ASSISTANT PROFESSORS: Buell, Cross, Lyengar, L. Jones, Waguespack
INSTRUCTORS: Chiarulli, Danesh-Khosbho, Hanchey, Mims, Owen, Shepherd, Taylor

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

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.: 132</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Humanities and Social Sciences (15 sem. hrs.):</strong> Must be selected from courses in the social sciences or humanities, exclusive of the English, economics, and foreign language requirements for the degree.</td>
</tr>
<tr>
<td><strong>Approved Elective Group (24 sem. hrs.):</strong> 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.</td>
</tr>
<tr>
<td><strong>Electives (15 sem. hrs.):</strong> 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 six sem. hrs. of basic ROTC.</td>
</tr>
</tbody>
</table>

Computer Science Elective (3 sem. hrs.): Must be one of the following computer science courses: CSC 4304, 4351, 4360, 4362, 4365, 4368, 4444, 4490.

<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>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
<td>English course above 2000 or Speech 2060</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1201-1202 or Chemistry 1201, 1202 (students not qualifying for MATH 1550 in the first semester may take Physics 2101-2102 in the sophomore year)</td>
<td>6</td>
<td>Mathematics 2090</td>
<td>4</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
<td>Approved electives</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>34</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 3102, 4101, 4103</td>
<td>9</td>
<td>Computer science elective</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses</td>
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<td>Approved electives</td>
<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>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>34</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Students who have completed the prerequisites may substitute MATH 4055 or QBA 4000.
**Students who have completed the prerequisites may substitute MATH 4056, QBA 4020, or EE 4640.
***Students who have completed the prerequisites may substitute ME 4533 or MATH 4065.
DEPARTMENT OF PHYSICS AND ASTRONOMY

CHAIRMAN: Henry, Professor
BOYD PROFESSORS: Callaway, Reynolds
PROFESSORS: Bond, Goodrich, Grenier, Hamilton, Huggett, Hussey, Jones, Landolt, O'Connell, Perry, Rajagopal, Rau Zganjar
ASSOCIATE PROFESSORS: Chan, Chanmugam, Draayer, Drilling, Grenchik, Haymaker, Inlay, Kirk, Lee, Marshall, Pillar, Zebouni, Zimmerman
ASSISTANT PROFESSORS: Greene, Metcalf

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)

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.: 128</th>
</tr>
</thead>
</table>

**Electives:** Six of the total semester hours of electives must be chosen from physics courses numbered above 3000; six 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 six sem. hrs. of basic ROTC.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202</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 above 2000 or Speech 2060</td>
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</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
<td>Mathematics 2057, 2065</td>
<td>6</td>
</tr>
<tr>
<td>Physics 1201-1202, 1208-1209</td>
<td>8</td>
<td>Physics 2111, 2209, 2221, 2231</td>
<td>13</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
<td>Approved electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>33</strong></td>
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<table>
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<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Foreign language courses</td>
<td>10</td>
<td>Physics 4399</td>
<td>3</td>
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<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>
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<tr>
<td><strong>31</strong></td>
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<td><strong>33</strong></td>
<td></td>
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CURRICULUM IN PHYSICS (ASTRONOMY OPTION)

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.: 128</th>
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</thead>
</table>

**Electives:** Six of the total semester hours of electives must be chosen from physics courses numbered above 3000; three 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 six sem. hrs. of basic ROTC.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy 1111, 1112</td>
<td>6</td>
<td>Computer Science 2262</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English course above 2000 or Speech 2060</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
<td>Mathematics 2057, 2065</td>
<td>3</td>
</tr>
<tr>
<td>Physics 1201-1202, 1208-1209</td>
<td>8</td>
<td>Physics 2111, 2209, 2221, 2231</td>
<td>13</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
<td>Approved electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>33</strong></td>
<td></td>
<td><strong>31</strong></td>
<td></td>
</tr>
</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 six sem. hrs. of basic ROTC.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy 4261</td>
<td>3</td>
</tr>
<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>Physics 4132, 4135, 4198</td>
<td>9</td>
</tr>
<tr>
<td>Mathematics electives</td>
<td>3</td>
</tr>
<tr>
<td>Physics electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astronomy 4221-4222</td>
<td>6</td>
</tr>
<tr>
<td>Physics 4251</td>
<td>3</td>
</tr>
<tr>
<td>Physics electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>21</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>Physics 1201-1202, 1208-1209</td>
<td>8</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 2262</td>
<td>3</td>
</tr>
<tr>
<td>English course above 2000 or Speech 2060</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2111, 2209, 2221, 2231</td>
<td>13</td>
</tr>
<tr>
<td>Approved electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>31</strong></td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics electives</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>30</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

**ALLIED HEALTH PROGRAMS**

**ASSOCIATE PROFESSOR (MEDICAL TECHNOLOGY):** Corkum

**ASSISTANT PROFESSOR (MEDICAL TECHNOLOGY):** Harris

The College of Chemistry and Physics offers a two-year core preprofessional 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 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.

**PREPROFESSIONAL CURRICULUM**

Electives must include six sem. hrs. of social sciences and/or humanities. Free electives in the freshman and sophomore years may include a total of six sem. hrs. of basic ROTC.

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202</td>
<td>6</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022; or 1023; or 1550</td>
<td>5-6</td>
</tr>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6-7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
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</tbody>
</table>

**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1212</td>
<td>2</td>
</tr>
<tr>
<td>English course above 2000</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 2000</td>
<td>3</td>
</tr>
<tr>
<td>Special area requirements (see below)</td>
<td>8-17</td>
</tr>
<tr>
<td>Approved electives</td>
<td>7-16</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>
Special Area Requirements

CYTOTECHNOLOGY, 17 SEM. HRS.: Chemistry 2261, 2262, 2364; Microbiology 2051; Zoology 2153, 2154.

DENTAL HYGIENE, 12 SEM. HRS.: Chemistry 2060; Economics 2030; Sociology 2001; Speech 2060.

MEDICAL RECORD ADMINISTRATION, 12 SEM. HRS.: BCOS 2000; Computer Science 1240; English course numbered above 2000; Speech 2060.

MEDICAL TECHNOLOGY, 16 SEM. HRS.: Chemistry 2261, 2262, 2364; Microbiology 2051; Physics 2001, 2008.


RESPIRATORY THERAPY, 16-17 SEM. HRS.: Microbiology 2051; Physics 2001, 2002, 2008, 2009; Zoology 2152 or 3156 or Chemistry 2060, 2364.

PREPROFESSIONAL CURRICULUM IN REHABILITATION COUNSELING

Elective must include at least 15 sem. hrs. of social sciences and humanities.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoology 1001, 1002</td>
<td>8</td>
<td>Chemistry 1002, 1004</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry 1001</td>
<td>3</td>
<td>English course above 2000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Psychology 2000, 2011</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021</td>
<td>3</td>
<td>Zoology 2160</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>12</td>
<td>Approved electives</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

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 their respective curricula. Approved electives must include six 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>
<td>9</td>
<td>MTEC 4101 (Clinical Hematology-I)</td>
<td>5</td>
</tr>
<tr>
<td>Biochemistry 4087</td>
<td>3</td>
<td>MTEC 4102 (Clinical Microscopy)</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 2251</td>
<td>3</td>
<td>MTEC 4110 (Clinical Microbiology-I)</td>
<td>6</td>
</tr>
<tr>
<td>Microbiology 4121</td>
<td>4</td>
<td>MTEC 4111 (Clinical Microbiology-II)</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2002, 2009</td>
<td>4</td>
<td>MTEC 4112 (Clinical Microbiology-III)</td>
<td>3</td>
</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>
</tr>
<tr>
<td>Approved electives</td>
<td>5-6</td>
<td>MTEC 4114 (Clinical Chemistry-II)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>MTEC 4116 (Blood Banking)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MTEC 4117 (Clinical Hematology-II)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>
### Cytotechnology

**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoology 4104</td>
<td>4</td>
</tr>
<tr>
<td>Approved advanced life sciences electives</td>
<td>7-8</td>
</tr>
<tr>
<td>Approved electives</td>
<td>12-13</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTEC 4010 (Principles of Cytology)</td>
<td>4</td>
</tr>
<tr>
<td>CTEC 4020 (Preparatory Techniques)</td>
<td>5</td>
</tr>
<tr>
<td>CTEC 4030 (Gynecologic Cytology)</td>
<td>6</td>
</tr>
<tr>
<td>CTEC 4040 (Respiratory Cytology)</td>
<td>4</td>
</tr>
<tr>
<td>CTEC 4050 (Gastrointestinal Cytology)</td>
<td>3</td>
</tr>
<tr>
<td>CTEC 4060 (Urinary Cytology)</td>
<td>3</td>
</tr>
<tr>
<td>CTEC 4070 (Body Cavity and Miscellaneous Secretions Cytology)</td>
<td>3</td>
</tr>
<tr>
<td>CTEC 4080 (Cytogenetics)</td>
<td>2</td>
</tr>
<tr>
<td>CTEC 4090 (Seminar)</td>
<td>1</td>
</tr>
<tr>
<td>CTEC 4100 (Independent Project)</td>
<td>2</td>
</tr>
<tr>
<td>CTEC 4130 (Advanced Gynecologic Techniques)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

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 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.

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 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 twelve 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 51-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.

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 training and educational programs authorized by the 1979 Louisiana Legislature. The Comprehensive 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 CPM curriculum includes 216 instructional hours in management and 60 hours in elective courses. On completion of the program, participants are awarded the designation of Certified Public Manager.

IADC Blowout Control 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.

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 5-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.

International Special Olympics Program

LSU will host the 1983 International Summer Special Olympics Games on the Baton Rouge Campus. The offices for the International Games are housed in the LSU Assembly Center. This massive undertaking will involve housing, transportation, food service, administrative planning, and event operation for 4000 mentally retarded athletes; over 1000 coaches, trainers, and chaperones; and 150 celebrities from all 50 states and 40 foreign countries. Many LSU faculty, staff, and students, as well as thousands of volunteers from across the state, will be involved in the operation of these games.
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 in accredited programs in the following areas: architecture, interior design, and landscape architecture. Visual arts programs include graphic design, sculpture, printmaking, painting and drawing, and crafts. Study in each of these disciplines leads to a professional degree at the bachelor's level. The Master of Fine Arts 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, the college has established the provision that its students must maintain a 2.00 average in school courses required in the student’s curriculum.

While students are urged to participate in sports, in considering qualification for degrees awarded by the college, some schools limit the number of hours for activity courses in the School of Health, Physical Education, Recreation, and Dance. Further, certain schools do not allow pass/fail grades for degree credit. Students should contact their schools for specifications on these regulations.

In addition to the general attendance regulations of the University, the college’s policy provides that any student with more than three unexcused absences in any course or in the English Writing Laboratory 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. Under these circumstances, the student must demonstrate to the school proficiency in English in order to qualify as a degree candidate.

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, art, 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.

Schools and Curricula

Electives in the freshman and sophomore years may include a total of six semester hours of basic ROTC.

SCHOOL OF ARCHITECTURE

DIRECTOR: Oppermann, Professor
ALUMNI PROFESSOR: Heck
PROFESSORS: Bruce, Smothers
ASSOCIATE PROFESSORS: Brigid, Glenny, McQueen, St. Martin, Shih, White
ASSISTANT PROFESSORS: Dietrich, Vajna, Weisenthal

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.

Credit earned in two-year technical or terminal degree programs and programs which, when completed, result in an "Associate in Applied Sciences" diploma may be accepted for degree credit, to the extent that the courses are equivalent to degree work in the School of Architecture, as determined by the school director.

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 1051, 1153, 1161</td>
<td>9</td>
</tr>
<tr>
<td>English 1001, 1002 or 1002 and an English course above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1441</td>
<td>3</td>
</tr>
<tr>
<td>Physics 2001</td>
<td>3</td>
</tr>
<tr>
<td>ROTC or approved electives</td>
<td>12</td>
</tr>
<tr>
<td>TOTAL</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, 2171-2172, 2174</td>
<td>27</td>
</tr>
<tr>
<td>Physics 2002</td>
<td>3</td>
</tr>
<tr>
<td>ROTC or approved electives</td>
<td>6</td>
</tr>
<tr>
<td>TOTAL</td>
<td>36</td>
</tr>
</tbody>
</table>
JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</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><strong>Total</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

FIFTH YEAR

<table>
<thead>
<tr>
<th>Course</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 GPA evaluation and a proposal for student-initiated credit hours approved by the school director during the second semester of the senior year)</td>
<td>0-24</td>
</tr>
<tr>
<td>Approved electives</td>
<td>6-30</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

1. Of the 43 elective hours available, at least six sem. hrs. must be in each of the following areas: (1) humanities, social sciences, or social problems; (2) management/business; (3) art, history of architecture or art, or design; (4) technology; and at least 21 sem. hrs. must be in the courses offered in the School 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 Art 1847 and either Architecture 1182 or Landscape Architecture 1182 as first-year electives.

3. Electives or Architecture 3001 (when required by the school).

BACHELOR OF ARCHITECTURE—MASTER OF BUSINESS ADMINISTRATION PROGRAM

The School of Architecture offers a Bachelor of Architecture—Master of Business Administration program for students who qualify through a combination of grade-point average and score on the Graduate Management Admissions Test. The program permits a student to obtain the Bachelor of Architecture degree at the end of five years and the Master of Business Administration degree at the end of two additional semesters plus one summer term. A student who selects this program must take the Graduate Management Admissions Test during the fourth year of study in the School of Architecture. The Graduate Council has approved enrollment of fifth year architecture students in 5000-level M.B.A. courses, provided they meet the following formula requirement: the product of the student’s GPA for 140 semester hours times 200, plus the score on the Graduate Management Admissions Test must be greater than, or equal to, 1100.

The courses required for the two degrees are given below.

FIFTH YEAR (1ST SEMESTER)

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture 3216</td>
<td>6</td>
</tr>
<tr>
<td>Economics 5700</td>
<td>3</td>
</tr>
<tr>
<td>Finance 5200</td>
<td>2</td>
</tr>
<tr>
<td>Management 5220</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

FIFTH YEAR (2ND SEMESTER)

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 3001</td>
<td>3</td>
</tr>
<tr>
<td>Architecture 3316</td>
<td>6</td>
</tr>
<tr>
<td>Economics 4720</td>
<td>3</td>
</tr>
<tr>
<td>QBA 5014</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Following successful completion of the prescribed course of study for the first four years of the Bachelor of Architecture curriculum and the courses listed above, the degree of Bachelor of Architecture will be awarded.

SIXTH YEAR (SUMMER)

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting 7101</td>
<td>3</td>
</tr>
<tr>
<td>Marketing 7711</td>
<td>3</td>
</tr>
<tr>
<td>Business administration elective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

SIXTH YEAR (2ND SEMESTER)

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management 7280</td>
<td>3</td>
</tr>
<tr>
<td>Business administration electives</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Following the successful completion of the courses listed above, the degree of Master of Business Administration will be awarded.
INTERIOR DESIGN PROGRAM

ASSOCIATE DIRECTOR: Singer, Professor
PROFESSOR: Nielson
ASSOCIATE PROFESSORS: Spencer, Wachob
INSTRUCTOR: Mathews

OFFICE: 225 Design Center
TELEPHONE: (504) 388-8422

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 may 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.

Credit earned in two-year technical or terminal degree programs and programs which, when completed, result in an "Associate in Applied Sciences" diploma may be accepted for degree credit, to the extent that the courses are equivalent to degree work in the Interior Design Program, as determined by the program director.

Course Sequence: Required major courses carrying the architecture and interior design prefixes are offered only the semester indicated in the catalog course description. Prerequisites are rigidly enforced.

English Proficiency: Students must obtain a grade of "B" or better in English 1002 or a grade of "C" or better in English 1003 or 1005. Students failing to do so will be required to 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 final year of studies until they have achieved proficiency in English.

Grade Policy: Students majoring in interior design must maintain a minimum grade-point average of 2.00 in the major and an overall grade-point average of 2.00. Students seeking to transfer to this major program will be subject to the same grade requirements.

CURRICULUM IN INTERIOR DESIGN (WITH OPTION)

TOTAL SEM. HRS.: 131-146

College Electives: select six sem. hrs. from courses in architecture, art, interior design, and landscape architecture.

Art Electives: six 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 six sem. hrs. from courses in anthropology, geography, history, philosophy, political science, psychology, and sociology.

OPTION—INTERIOR SYSTEMS DESIGN (22 sem. hrs.): Architecture 2171, 2172; Mathematics 1550, 1552; and Physics 2001, 2002.
FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture 1153 or Art 1011</td>
<td>3</td>
</tr>
<tr>
<td>Architecture 1181 or Art 1847</td>
<td>3</td>
</tr>
<tr>
<td>Architecture 1182</td>
<td>3</td>
</tr>
<tr>
<td>Art 1440, 1441, or 2470 (choose two)</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>Interior Design 1051</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1021, 1022 or science courses</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</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(^2)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English course above 2000</td>
<td>3</td>
</tr>
<tr>
<td>Home Economics 3040 or approved college elective</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 elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved art elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved humanities, social science, or behavioral science elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</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>6</td>
</tr>
<tr>
<td>Approved art electives</td>
<td>6</td>
</tr>
<tr>
<td>Approved humanities, social science, or behavioral science electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

\(^1\) 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.

\(^2\) Students desiring to take ROTC will be allowed to substitute ROTC for three sem. hrs. of general electives and for three sem. hrs. of humanities, social science, behavioral science, or speech electives.

\(^3\) Offered alternate fall semesters only.

SCHOOL OF ART

DIRECTOR: Rutkowski, Professor

OFFICE: 110 Foster Hall
TELEPHONE: (504) 388-2166

PROFESSORS: Bova, Burke, Cavanaugh, Dufour, Garrett, Harris, Lawrence, R. Millward, Pramuk, Warrens

ASSOCIATE PROFESSORS: Bower, Cox, Crespo, Daugherty, Detmers, Drost, Harding, Mauck, Meek, Menendez, Zuker


Through the College of Design, the School of Art offers the professional B.F.A. degree with majors in crafts (ceramics or stained glass option), graphic design, painting and drawing, printmaking, and sculpture. In addition, students majoring in these areas may minor in ceramics, jewelry/metalsmithing, painting and drawing, photography, printmaking, stained glass, and sculpture.

Other undergraduate degree programs in art are offered by academic divisions outside the College of Design. The College of Arts and Sciences offers a Bachelor of Arts degree with a major in fine arts and concentration in either studio art or art history. General requirements for this degree may be found in the section of this catalog entitled “Degree Requirements of the College” for the College of Arts and Sciences. School of Art requirements for such students are also given in the “College of Arts and Sciences” section.

Students interested in pursuing this degree should confer with an adviser in the School of Art.

The College of Education offers the Bachelor of Science degree with a major in education and a teaching major in art. Students planning to teach art in the public schools of Louisiana should confer with the art education adviser in the College of Education concerning certification requirements. For primary, elementary, and secondary schoolteachers (not art teachers), a special program to include art principles and practice has been developed (see Art 2655 and 2271-2272).

Certain courses offered in the school require 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.

Credit earned in two-year technical or terminal degree programs and programs which, when completed, result in an "Associate in Applied Sciences" diploma may be accepted for degree credit, to the extent that the courses are equivalent to degree work in the School of Art, as determined by the school director.

Bachelor of Fine Arts Degree

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. 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. 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.

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.

<table>
<thead>
<tr>
<th>Group</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Classical languages (Latin, Greek), English, German, Journalism</td>
</tr>
<tr>
<td></td>
<td>Music, Philosophy, Romance languages (French, Italian, Portuguese, Spanish)</td>
</tr>
<tr>
<td>II</td>
<td>Astronomy, Biology, Botany, Anthropology, Economics, Geography</td>
</tr>
<tr>
<td></td>
<td>Chemistry, Geology, Mathematics, History, Political Science</td>
</tr>
<tr>
<td></td>
<td>Microbiology, Physics, Zoology, Psychology, Sociology</td>
</tr>
</tbody>
</table>

CURRICULUM IN CRAFTS (CERAMICS OPTION)

TOTAL SEM. HRS.: 128

Credit for Art 3661, 4661, 4671, and 4681 allocated depending on student’s qualifications and interests. Courses will be selected with advice of an academic counselor.

<table>
<thead>
<tr>
<th>Year</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>34</td>
<td>Sophomore Year</td>
<td>30</td>
</tr>
<tr>
<td>Art 1001, 1661, 1762, 1847, 1848</td>
<td>15</td>
<td>Art 1361, 1849 (core course)</td>
<td>6</td>
</tr>
<tr>
<td>(core courses)</td>
<td></td>
<td>Art 2661</td>
<td>6</td>
</tr>
<tr>
<td>Art history course below 3000</td>
<td>3</td>
<td>Art history course below 3000</td>
<td>3</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>English courses above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
<td>4</td>
<td>Liberal arts requirements</td>
<td>3</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td></td>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td>Junior</td>
<td>34</td>
<td>Senior Year</td>
<td>30</td>
</tr>
<tr>
<td>Art 2655</td>
<td>3</td>
<td>Art 4661, 4671, and/or 4681</td>
<td>12</td>
</tr>
<tr>
<td>Art 3661 and/or 4661</td>
<td>9</td>
<td>Art 4691</td>
<td>3</td>
</tr>
<tr>
<td>Art history courses above 3000</td>
<td>6</td>
<td>Art studio electives</td>
<td>12</td>
</tr>
<tr>
<td>Art 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></td>
</tr>
<tr>
<td>Electives</td>
<td>7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ceramics Minor: ART 1661, 2661 (repeated for nine hours of credit), and six semester hours of ceramics courses at the 3000 level or above.

CURRICULUM IN CRAFTS (STAINED GLASS OPTION)

TOTAL SEM. HRS.: 129

<table>
<thead>
<tr>
<th>Year</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>36</td>
<td>Sophomore Year</td>
<td>33</td>
</tr>
<tr>
<td>Art 1001, 1847, 1848, 1849</td>
<td>12</td>
<td>Art 1661, 1762, and either 1361 or 1371</td>
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<tr>
<td>(core courses)</td>
<td></td>
<td>Art 2645, 2646</td>
<td>6</td>
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<tr>
<td>Art 1645</td>
<td>3</td>
<td>English courses above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Art history course below 3000</td>
<td>6</td>
<td>Liberal arts requirements</td>
<td>9</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Electives or ROTC</td>
<td>3</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</table>
### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 2655, 3645, 3646, 4412, and either 4405 or 4406</td>
<td>15</td>
</tr>
<tr>
<td>Art studio electives</td>
<td>6</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
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<td><strong>Total</strong></td>
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### SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Art 2661</td>
<td>3</td>
</tr>
<tr>
<td>Art 4645</td>
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<tr>
<td>Art 4648</td>
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<tr>
<td>Arts studio electives</td>
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<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tr>
</tbody>
</table>

**Stained Glass Minor:** *ART 1645, 2645, 2646, 3645, and 4645.*

### CURRICULUM IN GRAPHIC DESIGN

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 1011, 1440, 1441, 1847, 1848, 2551</td>
<td>18</td>
</tr>
<tr>
<td>Engineering Graphics 1001</td>
<td>2</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Approved liberal arts requirements</td>
<td>3</td>
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<tr>
<td>Electives or ROTC</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>
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</thead>
<tbody>
<tr>
<td>Art 2552, 2553, 2554, 2555</td>
<td>12</td>
</tr>
<tr>
<td>English 2002</td>
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<tr>
<td>English course above 2000</td>
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<td>Approved liberal arts requirements</td>
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<td>Electives or ROTC</td>
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<td><strong>Total</strong></td>
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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Art 2095, 3544, 3564</td>
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<tr>
<td>Art 2470 or 4436</td>
<td>3</td>
</tr>
<tr>
<td>Art 2883 or 1849</td>
<td>3</td>
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<tr>
<td>Approved liberal arts requirements</td>
<td>12</td>
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<tr>
<td>Electives</td>
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<td><strong>Total</strong></td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Art 4524, 4534, 4544, 4555, 4564, 4574</td>
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<tr>
<td>College of Design elective</td>
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<td>Approved liberal arts requirement</td>
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<td>Electives</td>
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<tr>
<td><strong>Total</strong></td>
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### CURRICULUM IN PAINTING AND DRAWING

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Art 1001, 1762, 1847, 1848, 1849 (core courses)</td>
<td>15</td>
</tr>
<tr>
<td>Art history course below 3000</td>
<td>3</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
<td>9</td>
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<tr>
<td>Electives or ROTC</td>
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<tr>
<td><strong>Total</strong></td>
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**SOPHOMORE YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 2879, 2881, 2882</td>
<td>9</td>
</tr>
<tr>
<td>Art 1661 and either 1361 or 1371 (core courses)</td>
<td>6</td>
</tr>
<tr>
<td>Art history course below 3000</td>
<td>3</td>
</tr>
<tr>
<td>English course above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Liberal arts requirements</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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**JUNIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Art 2883, 4880, 4881, 4887</td>
<td>12</td>
</tr>
<tr>
<td>Art history course above 3000</td>
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<tr>
<td>Art studio electives</td>
<td>3</td>
</tr>
<tr>
<td>Liberal arts requirements</td>
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<tr>
<td>Electives</td>
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<tr>
<td><strong>Total</strong></td>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Art 4800, 4884, 4889</td>
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<tr>
<td>Art studio electives</td>
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<tr>
<td>Liberal arts requirements</td>
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</tr>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

**Painting and Drawing Minor:** *ART 2879, 2881, 4880, 4881, 4884, and 4889.*

### CURRICULUM IN PRINTMAKING

**TOTAL SEM. HRS.: 129**

**Major Requirements:** In addition to the core courses, students must complete Art 2362, 2372, and 24 more sem. hrs. of printmaking courses, at least 12 hrs. of which must be numbered above 4000.
FRESHMAN YEAR  SEM. HRS.
Art 1001, 1847, 1848 ........................................ 9
Art 1361 or 1371, 1661, 1762, 1849 .......................... 6
(choose two) .................................................. 6
Art history course below 3000 ................................ 3
English 1001, 1002 .......................................... 6
Liberal arts requirements ..................................... 6
Electives or ROTC ........................................... 3

JUNIOR YEAR  SEM. HRS.
Art 2879, 4887 .............................................. 6
Art history course above 3000 ............................... 3
Art studio electives ......................................... 6
Liberal arts requirements .................................... 3
Major requirements .......................................... 12
Electives ...................................................... 3

SENIOR YEAR  SEM. HRS.
Art 4889 ........................................................ 6
Art history course above 3000 ............................... 3
Art studio electives ......................................... 6
Liberal arts requirements .................................... 3
Major requirements .......................................... 12
Electives or ROTC ........................................... 3

Printmaking Minor: ART 1361, 1371, six semester hours of printmaking courses at the 2000 level, and six semester hours of printmaking courses at the 4000 level.

CURRICULUM IN SCULPTURE
TOTAL SEM. HRS.: 129

FRESHMAN YEAR  SEM. HRS.
Art 1001, 1762, 1847, 1848, 1849 .......................... 15
(  core courses) .............................................. 15
Art history course below 3000 ............................... 3
English 1001, 1002 .......................................... 6
Liberal arts requirements .................................... 6
Electives or ROTC ........................................... 3

JUNIOR YEAR  SEM. HRS.
Art 4761 ........................................................ 9
Art 2661 ........................................................ 3
Art history course above 3000 ............................... 3
Arts studio electives ......................................... 9
Liberal arts requirements .................................... 6
Electives ...................................................... 3

SENIOR YEAR  SEM. HRS.
Art 4761 ........................................................ 6
Art 4762 ........................................................ 3
Art 4671 ........................................................ 6
Art studio electives ......................................... 3
Liberal arts requirements .................................... 3
Electives ...................................................... 6

Sculpture Minor: ART 1762, 2761 (repeated for nine hours of credit), and 4761 (repeated for six hours of credit).

Other Minor Programs

In addition to the programs specified above, minors in jewelry/metalsmithing and photography are also available. Requirements are as follows:
Jewelry/Metalsmithing Minor: ART 2655, 2656, 4651 (repeated for six hours of credit), and 4655 (repeated for six hours of credit).
Photography Minor: ART 2095, 2096, 3094, and 4041 (repeated for six hours of credit).

School of Landscape Architecture

DIRECTOR: Reich, Alumni Professor
PROFESSORS: Conrad, Earle, Emerson, Haynes, Odenwald, Womack
OFFICE: 211 Long Fieldhouse
TELEPHONE: (504) 388-1434
ASSOCIATE PROFESSORS: Abbey, Fryling, Popadic, J. Turner
ASSISTANT PROFESSORS: Artunc, Cox, Ribes, Schmoyer, Tomioka, S. Turner

LSU is the only school in Louisiana with a nationally accredited curriculum in landscape architecture. The five-year curriculum affords a well-rounded course of study based on standards set by the American Society of Landscape Architects. It provides training in the many aspects of the profession, ranging from physical master-planning of cities and regions to design of intimate outdoor spaces associated with individual structures. Work on landscape architectural projects frequently involves active collaboration with the related professions of architecture, art, city planning, engineering, law, sociology, psychology, geology, geography, economics, and other areas of specialization. Upon satisfactory completion of the undergraduate program, the degree of Bachelor of Landscape Architecture is awarded.

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 1015, 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.

Credit earned in two-year technical or terminal degree programs and programs which, when completed, result in an "Associate in Applied Sciences" diploma may be accepted for degree credit, to the extent that the courses are equivalent to degree work in the School of Landscape Architecture, as determined by the school director.

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, art, 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, HPRD, 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, geology, mathematics, social science.
10. Independent research—computer science, natural sciences, social sciences, statistics, technical writing.
11. Education in landscape architecture—education, educational psychology.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course Details</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Art 1011 or Architecture 1153</td>
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<tr>
<td>English 1001, 1002*</td>
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</tr>
<tr>
<td>Landscape Architecture 1151, 1181, 1182, 2141</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics 1015</td>
<td>3</td>
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<tr>
<td>Approved electives or ROTC**</td>
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SOPHOMORE YEAR

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<thead>
<tr>
<th>Course Details</th>
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<tbody>
<tr>
<td>Art 1761</td>
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<tr>
<td>Landscape Architecture 2112, 2141 or 2142, 2152, 2171, 2183</td>
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Total: 32
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<th>Junior Year</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Agricultural Engineering 2307 or Civil Engineering 2500, 2510</td>
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<tr>
<td>Landscape Architecture 2121, 3122, 3153, 3154, 3276, 4173</td>
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<tr>
<td>Approved electives</td>
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<table>
<thead>
<tr>
<th>Senior Year</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Landscape Architecture 4157, 4158, 4174, 4175, 4184, 4195</td>
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<table>
<thead>
<tr>
<th>Fifth Year</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Landscape Architecture 3155, 4156, 4251, 4252, 4291, 4292</td>
<td>18</td>
</tr>
<tr>
<td>Approved electives</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

*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.

**Six 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. All freshmen who enter the University with the intent of becoming teachers 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 2.20 grade-point averages 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.)

STUDENT TEACHING

Application for Student Teaching

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.

Requirements for Student Teaching

No student may schedule more than 15 semester hours of work during the semester in which student teaching is done. Any student who is within 14 hours (or less) of graduation and is not qualified for supervised student teaching will be dropped from the college (see requirements below). 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) attended.

2. Completion of EDCI 2025, 3112, 3113, 3125, 3126, 3127; and Psychology 2060, 2076.

3. Proficiency in written expression.
IN SECONDARY AND K-12 SUBJECTS

1. Attainment of senior standing in the college with an overall average of 2.50 on all work attempted and on all work at LSU, with at least a 2.00 average in professional education courses and in each teaching field, and with no grade lower than "C" in professional education courses and in courses required in each teaching field, regardless of the institution(s) attended.

2. Completion of all professional education courses, including psychology and specialized courses prescribed in the freshman, sophomore, and junior years in the teaching area.

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 on all work taken, with no grade less than "C" in professional education courses and in specialized academic courses.

2. Completion of the final 30 semester hours of work done in residence on the 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 MINORS IN GRADES K-12

Art
Teaching Major, 44 sem. hrs.: Art 1011, 1361, 1440, 1441, 1661, 1761, 1847, 1848, 1849, 2251, 2252, 2271, 2272, and either 4273 or 4274; 2 sem. hrs. of art electives.
Teaching Minor: Art may not be scheduled as a teaching minor.

Music Education
Music may be scheduled as a teaching major only. Students majoring in music are not required to have a teaching minor. Curricula are offered in instrumental music education and vocal music education (see curricula in music education).

Physical Education
Teaching Major, 53 sem. hrs.: HPRD 1404, 1600, 2500, 2501, 2502, 2540, 2601, 3510, 3511, 3513, 3514, 3515, 3516; 2 sem. hrs. from 2508; ZOOL 2157 or 2160.
Teaching Minor, 28-29 sem. hrs.: HPRD 1404; 2 sem. hrs. selected from HPRD 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413; HPRD 2500, 2501, 2540, 2601 or 3602 or 4503, 3510, 3511, 3513, 3514 or 3515, and 3516. Minors in physical education are certified grades 1-12.

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.

SEQUENCE IN SUBJECT-MATTER FIELDS FOR TEACHING MAJORS AND MINORS FOR SECONDARY TEACHERS

Students in the following curricula have the option of choosing a teaching major with a teaching minor (Plan A) or a teaching major with no teaching minor (Plan B). Careful consideration of factors such as employment opportunities and personal interests should precede the selection of Plan A or B. Students are invited to consult faculty advisers or personnel in the dean's office for counseling.
School Health Education

Teaching Major, 46 sem. hrs.: HPRD 1600, 1601, 2500, 2600, 2601, 2602, 2604, 3602, 3603, 3604, 3608, 4600, 4601, 4602, 4605; Zoology 2160; and Home Economics 1010.

Teaching Minor, 30 sem. hrs.: HPRD 1600, 2601, 3603, 4601, 4602; 6 sem. hrs. selected from HPRD 2602, 3604, or 4619; 3 sem. hrs. selected from HPRD 2500, Zoology 2160 or 2157; and 6 sem. hrs. selected from HPRD 1601, 2600, 3602, 4604, and 4605.

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 minoring 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; BCOS 2071; Finance 3200; EDCI 2621; Economics 2010, 2020; Management 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, preferably French or German.

Teaching Major, Plan A, 42 sem. hrs.: English 1001, 1002, 2001, 2010, 2020, 2022, 2027, 4012, and 2148 or 4148 or 4149; 3 sem. hrs. of American literature; 6 sem. hrs. of electives selected from English 2025, from English courses numbered 4011 or higher, and from the English honors courses 3820, 3821, 3822, 3823 (courses in language, literary criticism, and Afro-American literature are recommended); Speech 2040 and 3 additional hours of electives in speech (Speech 1050 is recommended).

Teaching Major, Plan B, 54 sem. hrs.: English 1001, 1002, 2001, 2010, 2020, 2022, 2027, 4012; and 2148 or 4148 or 4149; 3 sem. hrs. of American literature; 18 sem. hrs. of electives selected from English 2025, from English courses numbered 4011 or higher, and from the English honors courses 3820, 3821, 3822, and 3823 (courses in language, literary criticism, and Afro-American literature are recommended); Speech 2040 and 3 additional hours of electives in speech (Speech 1050 is recommended).

Secondary Education—French

Teaching Major, Plan A, 29 sem. hrs.: French 2051, 2053, 2055, 2060, 2071, 2072, 4005, 4015; 3 sem. hrs. of electives in French.

Teaching Major, Plan B, 40 sem. hrs.: French 2051, 2053, 2055, 2060, 2071, 2072, 4005, 4015, 4016; 12 sem. hrs. of electives in French.

Teaching Minor, 26 sem. hrs.: French 2051, 2053, 2055, 2060, 2071 or 2072, 4005, 4015; 3 sem. hrs. of electives in French.

Secondary Education—German

Teaching Major: German may not be scheduled as a teaching major.

Teaching Minor, 26 sem. hrs.: German 2051, 2053, 2055, 2061, 2062, 2075, 4002; 3 sem. hrs. of electives in German above the freshman level.

Secondary Education—Industrial Arts Education

Teaching Major: Industrial arts education may not be scheduled as a teaching major in this college.

Teaching Minor, 24-30 sem. hrs.: 6 sem. hrs. of professional industrial education courses; 18-24 sem. hrs. of study in two technical areas.

Secondary Education—Journalism

Teaching Major: Journalism may not be scheduled as a teaching major.

Teaching Minor, 15 sem. hrs.: Journalism 2090, 2151, 4042, 4082, 4107.

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; 12 sem. hrs. of electives in Latin to be selected from 2073, 2074, 4002, 4004, 4006; plus 3 sem. hrs. specified by Department of Classical, Germanic, and Slavic 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; EDCL 3660.

Secondary Education—Mathematics

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, 25 sem. hrs. for a mathematics minor, and 45 sem. hrs. for a mathematics major with no minor. Mathematics majors must have at least 25 sem. hrs. of math courses numbered 1550 or above.

Teaching Major, Plan A, 33-34 sem. hrs.: Math 1021, 1022, 1550, 1552, 2019, 2057, 2085, 4005, 4181; Computer Science 1241.

Teaching Major, Plan B, 45-46 sem. hrs.: Math 1021, 1022, 1550, 1552, 2019, 2057, 2085, 4005, 4022, 4055, 4181; 3 sem. hrs. math elective at 4000 level; Computer Science 1241, 1251.

Teaching Minor, 25-26 sem. hrs.: Math 1021, 1022, 1550, 2019, 2085, 4005, 4181; 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 3071, 3072, 3073, 3074; Spanish 4602; 3 sem. hrs. of electives in Spanish above the freshman level.

Teaching Major, Plan B, 40 sem. hrs.: Spanish 2051, 2053, 2055, 2061, 2062, 3071, 3072, 3073, 3074, 4602, 4603; 6 sem. hrs. of electives in Spanish.

Teaching Minor, 26 sem. hrs.: Spanish 2051, 2053, 2055, 2061, 2062; 6 sem. hrs. of electives in Spanish selected from 3071, 3072, 3073, 3074; Spanish 4602.

Secondary Education—Speech

Teaching Major, Plan A, 34 sem. hrs.: 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, 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.

Departments, Schools, and Curricula

DEPARTMENT OF ADMINISTRATIVE AND FOUNDATIONAL SERVICES

CHAIRMAN: Von Brock, Professor
ALUMNI PROFESSOR: Adams
PROFESSORS: Blackmon, Britt, Firnberg, Gremillion, Musemeche, Roberts, Smith
ASSOCIATE PROFESSORS: Beeson, Fox, Maxcy, McJulien, Rankin
ASSISTANT PROFESSORS: Hammons, Kritonis, St. Julien, Spears
INSTRUCTOR: Deya

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 provides services to the educational organizations in Louisiana and is the basic link to professional associations at the local, state, regional, and national level.

DEPARTMENT OF CURRICULUM AND INSTRUCTION

CHAIRMAN: OFFICE: 63 Long Fieldhouse
PROFESSORS: Cookston, Neidig, Schmidt, Soderbergh, Strawitz, Thurston
ASSISTANT PROFESSORS: Bowden, Charlesworth, Davis, McGee, Romano, Seely, Stanley

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 years 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

**TOTAL SEM. HRS.: 138**

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### CURRICULUM IN ELEMENTARY GRADES

**TOTAL SEM. HRS.: 130**

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### CURRICULUM IN MUSIC EDUCATION—INSTRUMENTAL MUSIC (BAND)

**TOTAL SEM. HRS.: 152**

All students in the B.M.E. program shall participate in band (Music 4250, 4251, 4252), orchestra (Music 4261), or chorus (Music 4234, 4236, 4240) for four years. Large ensemble assignments are made at the discretion of the adviser and the ensemble conductors. Any request for adjustment of the rules pertaining to performance in large ensembles must be submitted to a reviewing committee.

Students wishing to be certified in more than one area (band and orchestra, band and vocal, etc.) should
see the dean of the School of Music for certification requirements and proficiencies. Such programs normally require a minimum of five years to complete.

Piano proficiency at the level of Music 1106 or equivalent and satisfactory completion of six semesters of recital hour (Music 1700) are required.

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<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<th>SEM. HRS.</th>
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CURRICULUM IN MUSIC EDUCATION—INSTRUMENTAL MUSIC (ORCHESTRA)

TOTAL SEM. HRS.: 152

All students in the B.M.E. program shall participate in band (Music 4250, 4251, 4252), orchestra (Music 4261), or chorus (Music 4234, 4236, 4240) for four years. Large ensemble assignments are made at the discretion of the adviser and the ensemble conductors. Any request for adjustment of the rules pertaining to performance in large ensembles must be submitted to a reviewing committee.

Students wishing to be certified in more than one area (band, orchestra, and chorus, etc.) should see the dean of the School of Music for certification requirements and proficiencies. Such programs normally require a minimum of five years to complete.

Piano proficiency at the level of Music 1106 or equivalent and satisfactory completion of six semesters of recital hour (Music 1700) are required.

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<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
<th>JUNIOR YEAR</th>
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Total SEM. HRS.: 38
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</table>

*To include study of one brass instrument, one woodwind instrument, and percussion.
**Violinists study viola and bass; violists study violin and bass; cellists study viola and cello.
***Violin and viola students take one year of cello (MUS 3177); cello and bass students take one year of violin (MUS 3175).

**CURRICULUM IN MUSIC EDUCATION—VOCAL MUSIC
TOTAL SEM. HRS.: 149

All students in the B.M.E. program shall participate in band (Music 4250, 4251, 4252), orchestra (Music 4261), or chorus (Music 4234, 4236, 4240) for four years. Large ensemble assignments are made at the discretion of the adviser and the ensemble conductors. Any request for adjustment of the rules pertaining to performance in large ensembles must be submitted to a reviewing committee.

Students wishing to be certified in more than one area (band and orchestra, band and vocal, etc.) should see the dean of the School of Music for certification requirements and proficiencies. Such programs normally require a minimum of five years to complete.

Keyboard majors must complete voice class (Music 1001-1002) and two semesters of private voice. Keyboard majors and voice majors must give evidence of satisfactory piano proficiency. Six semesters of recital hour (Music 1700) are required.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Large ensemble courses</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Biological science elective</td>
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<td>Social studies electives</td>
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</table>

*During the junior year, MUS 3018 may be substituted for applied music for one semester.
### CURRICULUM IN SECONDARY EDUCATION—BIOLOGY WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 137**

*This curriculum allows a minor in chemistry or physics.*

<table>
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<td>Botany 1001, 1002</td>
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<td>EDCI 1000</td>
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<td>EDCI 2040</td>
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<td>Mathematics 1021, 1022</td>
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<td>History 2057</td>
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<td>Psychology 2078</td>
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### CURRICULUM IN SECONDARY EDUCATION—BIOLOGY WITH NO TEACHING MINOR (PLAN B)

**TOTAL SEM. HRS.: 137**

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<td>Chemistry 1201, 1202, 1212</td>
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<td>Mathematics 1021, 1022</td>
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<td>Psychology 2060</td>
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<td>Zoology 1001, 1002</td>
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<td>English electives</td>
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<td>Electives or ROTC</td>
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<td><strong>SEM. HRS.</strong></td>
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# CURRICULUM IN SECONDARY EDUCATION—BUSINESS AND OFFICE OCCUPATIONS EDUCATION WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 140**

*Students majoring or minoring 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.*

<table>
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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Computer Science 1270</td>
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<td>History 2055, 2057</td>
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<td>Political Science 2051 or Sociology 2001 or other approved social studies course</td>
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<td>Electives</td>
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## CURRICULUM IN SECONDARY EDUCATION—BUSINESS AND OFFICE OCCUPATIONS EDUCATION WITH NO TEACHING MINOR (PLAN B)

**TOTAL SEM. HRS.: 143**

*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.*

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<th>SOPHOMORE YEAR</th>
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### CURRICULUM IN SECONDARY EDUCATION—CHEMISTRY
#### WITH A TEACHING MINOR (PLAN A)

*This curriculum allows a minor in biology or physics.*

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<th>SOPHOMORE YEAR</th>
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<td>EDCI 2040</td>
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### CURRICULUM IN SECONDARY EDUCATION—CHEMISTRY
#### WITH NO TEACHING MINOR (PLAN B)

*TOTAL SEM. HRS.: 132*

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<td>English 1001, 1002</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Biochemistry 4001</td>
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<td>Biochemistry 4083, 4084</td>
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<td>Chemistry 2262, 2364</td>
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<td>EDCI 3147, 3635</td>
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### CURRICULUM IN SECONDARY EDUCATION—DISTRIBUTIVE EDUCATION
#### WITH A TEACHING MINOR (PLAN A)

*TOTAL SEM. HRS.: 137*

*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.*
### FRESHMAN YEAR

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<td>English 1001, 1002</td>
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<td>EDCI 3135, 3136, 4140</td>
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<td>Finance 3200</td>
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<tr>
<td>Management 3159</td>
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<td>Marketing 3401, 3411, 4421, 4423, 4433</td>
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### SOPHOMORE YEAR

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### JUNIOR YEAR

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<td>Physical science electives (science minor: see &quot;Sequence in Subject-Matter Fields&quot;)</td>
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<td>Electives or ROTC</td>
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### SENIOR YEAR

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<td>Computer Science 1270</td>
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<td>EDCI 3141, 3635, and minor methods course</td>
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<tr>
<td>HPRD 2601</td>
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<tr>
<td>History 2057</td>
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<td>Management 4167</td>
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### 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.*

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<td>Mathematics electives (mathematics or science minor: Mathematics 1021, 1022)</td>
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<td>Physical science electives (science minor: see &quot;Sequence in Subject-Matter Fields&quot;)</td>
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<td>EDCI 3135, 3136</td>
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<td>History 2055, 2057</td>
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<tr>
<td>English 2025, 2027, 4012</td>
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### 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.*

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<td>English 2025, 2027, 4012</td>
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<td>English 2148 or 4148 or 4149</td>
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### CURRICULUM IN SECONDARY EDUCATION—MATHEMATICS WITH A TEACHING MINOR (PLAN A)

**TOTAL SEM. HRS.: 138**

**FRESHMAN YEAR**
- Biology 1001, 1002 or other biological science (science minor: see “Sequence in Subject-Matter Fields”)...
- EDCI 1000...
- English 1001, 1002...
- Mathematics 1021, 1022...
- HPRD elective...
- Physical science electives (science minor: see “Sequence in Subject-Matter Fields”)...
- Approved social studies electives...
- Electives or ROTC...

**SEM. HRS.: 34**

**JUNIOR YEAR**
- EDCI 3135, 3136...
- HPRD electives...
- History 2055, 2057...
- Mathematics 2019, 2057, 4005...
- Approved social studies electives...
- Teaching minor or electives...

**SEM. HRS.: 35**

**SENIOR YEAR**
- Economics 2030 or Political Science 2051...
- EDAF 3200...
- EDCI 3143 or 3145 or 3149...
- EDCI 3635...
- Foreign language courses...
- Electives...

**SEM. HRS.: 26-29**

### CURRICULUM IN SECONDARY EDUCATION—MATHEMATICS WITH NO TEACHING MINOR (PLAN B)

**TOTAL SEM. HRS.: 137**

**FRESHMAN YEAR**
- Computer Science 1241...
- EDCI 2040...
- Mathematics 1550, 1552...
- Psychology 2060, 2078...
- English electives...
- Electives or ROTC...

**SEM. HRS.: 31**

**JUNIOR YEAR**
- Computer Science 1241, 1251...
- EDCI 3135, 3136...
- HPRD electives...
- History 2055, 2057...
- Mathematics 2085, 4005, 4055, and 3 sem.
- hr. math elective at 4000 level...

**SEM. HRS.: 32**

**SENIOR YEAR**
- EDAF 3200...
- EDCI 3146, 3635...
- HPRD 2601...
- Mathematics 4022, 4181...
- Approved social studies electives...
- Electives...

**SEM. HRS.: 37**
### CURRICULUM IN SECONDARY EDUCATION—PHYSICS WITH A TEACHING MINOR (PLAN A)

TOTAL SEM. HRS.: 133-139

This curriculum allows a minor in biology, chemistry, or mathematics.

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<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Physics 2111, 2231</td>
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<td>Psychology 2060</td>
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<th>SEM. HRS.</th>
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<td>EDCI 3147, 3635</td>
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<td>Geology 1003, 1602</td>
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<td>History 2055, 2057</td>
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<td>Physics 2209, 2401</td>
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<td>Psychology 2078</td>
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<td>Zoology 1001</td>
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### CURRICULUM IN SECONDARY EDUCATION—PHYSICS WITH NO TEACHING MINOR (PLAN B)

TOTAL SEM. HRS.: 133

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<td>Physics 1201-1202, 1208-1209</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>Geology 1001</td>
<td>3</td>
<td>EDCI 3147, 3635</td>
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<td>History 2055, 2057</td>
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<td>Geology 1003, 1601, 1602</td>
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<td>Physics 2209, 2211, 2401, 4132</td>
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### CURRICULUM IN SECONDARY EDUCATION—SOCIAL STUDIES

TOTAL SEM. HRS.: 137

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<td>History 2055, 2057, 2071</td>
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<td>Psychology 2060, 2078</td>
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<td>Sociology 2001</td>
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### FRESHMAN YEAR

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<tr>
<td>English 1001, 1002</td>
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<tr>
<td>Physical Science 1001 or other physical science</td>
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<tr>
<td>Speech 1050, 1061</td>
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<td>HPRD electives</td>
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<td>Mathematics electives (mathematics minor: see “Sequence in Subject-Matter Fields”)</td>
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### CURRICULUM IN SECONDARY EDUCATION—SPEECH WITH A TEACHING MINOR (PLAN A)

**FRESHMAN YEAR**

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<tr>
<td>History 2055, 2057</td>
<td>6</td>
</tr>
<tr>
<td>Speech 2025, 2063, 4125, and 4000-level speech elective</td>
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<tr>
<td>Speech 2070 or 2073</td>
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<td>HPRD electives</td>
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**JUNIOR YEAR**

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<tr>
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<tr>
<td>History 2055</td>
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<td>Physical Science electives</td>
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**SENIOR YEAR**

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<tr>
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<tr>
<td>EDCI 3144, 3635</td>
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<tr>
<td>Geography 2061, 2062, 4001</td>
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<td>HPRD 2601</td>
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<td>History (American) electives (above 3000)</td>
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### CURRICULUM IN SECONDARY EDUCATION—SPEECH WITH NO TEACHING MINOR (PLAN B)

**FRESHMAN YEAR**

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<td>English 1001, 1002</td>
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<tr>
<td>Speech 1050, 1061</td>
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<tr>
<td>Biological science electives</td>
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<tr>
<td>HPRD electives</td>
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<tr>
<td>Mathematics electives</td>
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<tr>
<td>Physical science electives</td>
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<td>Electives or ROTC</td>
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<td><strong>TOTAL</strong></td>
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**JUNIOR YEAR**

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<tr>
<td>History 2055</td>
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<tr>
<td>Speech 2025, 2063, 4125</td>
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<td>Speech 2070 or 2073</td>
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<td>Speech 2080 or 2081</td>
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**SENIOR YEAR**

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<tr>
<td>EDCI 3148, 3635</td>
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<td>Speech electives (4000-level)</td>
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**CURRICULUM IN SPEECH, LANGUAGE, AND HEARING SPECIALIST (SERVING GRADES K-12)**

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<tr>
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<td>HPRD activity courses</td>
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<td>Mathematics 1021, 1022</td>
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<td>Speech 1050</td>
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<td>Zoology 1001, 1002 or Biology 1001, 1002, 1003, 1004</td>
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<td>Electives or ROTC</td>
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<td>HPRD activity courses or HPRD 1600 or 2601</td>
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<td>Physical Science 1001-1002 or Physics 2001-2002 or Chemistry 1001, 1002</td>
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<td>Psychology 2060, 2076</td>
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<td>Speech 2081</td>
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<td>English electives</td>
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<td>Electives or ROTC</td>
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<tr>
<td>Speech 4079, 4080, 4150, 4152, 4153, 4181, 4183, 4683*</td>
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<p>| <strong>SENIOR YEAR</strong>      |</p>
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<tbody>
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<td>EDCI 3112, 3126, 3181, 3630</td>
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<td>Psychology 3083</td>
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<tr>
<td>Speech 4184, 4185, 4187, 4188, 4683*</td>
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*200 clock hours of supervised clinical practicum are required for certification and are to be distributed as follows: a minimum of 25 hours in diagnostics; a minimum of 25 hours in hearing testing and auditory rehabilitation; a minimum of 37.5 hours in language disorders; a minimum of 15 hours in articulation disorders; a minimum of 15 hours in voice disorders; and a minimum of 15 hours in rhythm disorders. Practicum is graded on the same scale as course work, i.e., “A,” “B,” “C,” “D,” “F.” Credit is not given for a grade of “D” or “F”; practicum courses in which a “D” or “F” are earned must be repeated. Clock hours earned with a case for which “D” or “F” is the final grade may not be counted toward certification.

**SCHOOL OF HEALTH, PHYSICAL EDUCATION, RECREATION, AND DANCE**

**DIRECTOR:** Byrd, Professor  
**ASSISTANT DIRECTOR:** Lee, Associate Professor  
**PROFESSORS:** Broadhead, Fant, J. Nelson, Thomas  
**ASSOCIATE PROFESSORS:** Broussard, Carter, C. Hill, Life, Lipe, Magill, Norckauer, Steben  
**ASSISTANT PROFESSORS:** Denson, Hall, Molnar, Norwood, Powers, Reznik, Worthy  
**INSTRUCTORS:** Bird, Henry, K. Hill, R. Hill, Lamabe, Meyer, R. Nelson, Sciacchetano, Vega, Walkwitz

The School of Health, Physical Education, Recreation, and Dance offers activity courses in recreational sports such as tennis and golf and in various forms of dance in order to help students develop and maintain physical fitness as well as to provide skill and knowledge for leisure-time activities. The necessary facilities and equipment are available to students and faculty. A major function of the department is that of helping to prepare health and physical education teachers, coaches, and recreation leaders. Another major function of the school is to provide an undergraduate curriculum in dance. This program is open by audition to students who wish to pursue a professional career in dance performance or choreography. Graduate degrees offered include the Master of Science, Doctor of Education, and Doctor of Philosophy.

Six semester hours of basic ROTC may be taken as electives in the freshman and sophomore years in all curricula offered by the school.
### CURRICULUM IN DANCE

**TOTAL SEM. HRS.: 129**

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<td>HPRD 1153, 1804, 2500, 2801</td>
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<td>HPRD 1132, 1134, 1600, 1800, 1801, 1805</td>
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<td>Social science electives</td>
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<td>Philosophy electives</td>
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<tr>
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### CURRICULUM IN HEALTH SCIENCE (COMMUNITY HEALTH OPTION)

**TOTAL SEM. HRS.: 132**

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<td>Microbiology 2051</td>
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<td>English 1001, 1002</td>
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<td>Psychology 2011, 2040, 2060</td>
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<tr>
<td>HPRD 1600, 1601, 2601</td>
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<td>Sociology 2501, 2505</td>
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<tr>
<td>Mathematics 1021, 1022</td>
<td>6</td>
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<td>Electives or ROTC</td>
<td>6</td>
<td>English electives</td>
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<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
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<td>HPRD 2500, 3602, 3603, 3660, 3663, 4601, 4608</td>
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<td>HPRD health electives</td>
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### CURRICULUM IN HEALTH SCIENCE (SCHOOL HEALTH OPTION)

**TOTAL SEM. HRS.: 138**

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<td>HPRD activity courses</td>
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CURRICULUM IN PHYSICAL EDUCATION
TOTAL SEM. HRS.: 134-140

All students majoring in physical education are required to have a minor and an area of specialization. Students majoring or minoring in 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. Majors must be competent in 12 of the following activities; minors must be competent in nine.

Team Sports (majors—4 of the following; minors—3 of the following): basketball, field football, flag football, softball, volleyball.

Individual Sports (majors—4 of the following; minors—3 of the following): archery, bowling, racquetball or handball, badminton, golf, tennis.

Other Sports (majors—4 of the following including at least one dance; minors—3 of the following): ballet, gymnastics and tumbling, martial arts, pistol marksmanship, swimming, wrestling, folk and square dance, jazz dance, modern dance, riflery, track and field, weightlifting/weight training.

<table>
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<th>SEM. HRS.</th>
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<tr>
<td>EDCI 3135 or EDCI 3112*</td>
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*Students choosing the elementary physical education specialization must schedule EDCI 3112. All other students should schedule EDCI 3135, 3136.

Areas of Specialization

1. **Athletic Training:** HPRD 4503, 4504, 4505 .................................................. 10
2. **Coaching:** HPRD 4503 and 4 hrs. from the following: HPRD 2504, 2511, 2515, 2516, 2517, 2518, 2519, 2525 (1-3 sem. hrs.), 2526 .................. 6
3. **Dance:** HPRD 1227; 1131 or 1231; 1134; and 2 sem. hrs. from the following: HPRD 1153, 1327, 1804, 4804 .................................................. 6
4. **Elementary Physical Education:** 6 hrs. from the following courses: HPRD 1133, 1145, 1147, 2504, 2508, 4520 .................. 6
5. **Secondary Physical Education:** 6 hrs. from the following courses: HPRD 2504, 2508, 2511, 2526, 4803, 4520 .................. 6
6. **Physical Education for Handicapped:** HPRD 3540, 3541, 4540 .................. 9
7. **Research:** HPRD 4900 (6); EXST 4001 (4) .................................................. 10
DEPARTMENT OF HUMAN DEVELOPMENT

PROFESSORS: Mathews, Assistant Professor
ASSOCIATE PROFESSORS: Devlin, Hosie, Mackey
ASSISTANT PROFESSORS: Bursor, Simms, Tynan

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. A newly approved program offered by the department leads to the degree Bachelor of Science with a major in special education and options in mild/moderate elementary and severe/profound. More information concerning this program may be obtained from the department.

UNIVERSITY LABORATORY SCHOOL

PRINCIPAL: Fox, Associate Professor
ASSOCIATE PROFESSORS: Daigle, Garon
ASSISTANT PROFESSORS: Guillot, M. Hair, S. Hair, Jones, Jordon, Mosely, Travis
INSTRUCTORS: Ater, Carbo, Choate, Coleman, Dampier, Davis, Exner, Fabre, Furr, Garner, Guillory, Hallman, Harris, Hilton, Hurst, Jendrzejewski, Judice, Mackey, Maddox, Minchew, Rector, Roberts, Stelly, Thompson, Tucker

The University Laboratory School, an integral part of the College of Education, is maintained for observations, research, and pre-service field experiences in grades K through 12. The Laboratory School, therefore, maintains a staff of teachers for the purpose of giving instruction to children, demonstrating teaching procedures to student teachers and observers, developing innovative programs, conducting educational research, and acquainting pre-service and in-service teachers with approved and tested teaching procedures and viewpoints.

The Laboratory School serves as a demonstration center for educational methodology. Graduate and undergraduate students observe and participate in the use of instructional and testing materials. Graduate students and university faculty have opportunities to utilize the school for research studies.

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 K 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.)
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.
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. Solutions to societal problems require the development and application of technology within constraints established by economic, social, institutional, and political considerations. The College of Engineering addresses these issues through its departmental programs which require that graduates, in addition to being 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, the Audubon Sugar Institute, the Water Resources Research Institute, 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 university mathematics at the level prescribed in the freshman engineering program cannot expect to complete requirements for a degree in the nominal length of time. Credit for mathematics courses preliminary to analytical geometry and calculus may not be applied toward the bachelor of science degrees in the College of Engineering.
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 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, except for transfers in petroleum engineering. Students transferring from within the LSU System from a non-engineering discipline must have a 2.50 average on all coursework to enter petroleum engineering. Students transferring from other engineering disciplines within the LSU System must have a 2.30 average on all coursework attempted.

**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 Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology. 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 colleges or universities other than LSU and who plan to use such credits toward degree requirements must obtain prior approval in writing on a specific-course basis from the dean.

DEGREE REQUIREMENTS OF THE COLLEGE

It is the student’s responsibility to qualify for the bachelor’s degree by meeting these requirements:
1. completing one of the established curricula—any substitutions from the curricula as published must have approval of the department chairman and the dean;
2. achieving a 2.00 average on all courses in the major field, in addition to the 2.00 average 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;
4. initiating the checkout procedure with the departmental adviser in the semester prior to the semester in which the degree is to be awarded. The checkout is completed only when approved by the Office of the Dean and the Office of Student Records and Registration.

CORRESPONDENCE AND EXTENSION CREDITS

Graduating seniors enrolled in correspondence study during their final semester must complete the course four weeks prior to commencement. The name of any student who has not completed correspondence study by that time will be removed from the list of candidates for the degree. Students not candidates for the degree in the summer may, with approval, enroll during the summer in correspondence study which will be terminated if not completed on the first day of class in the fall semester. Extensions are not normally granted.

REQUIREMENTS FOR SECOND BACHELOR’S DEGREE

Students who hold one baccalaureate degree may wish to obtain a baccalaureate degree in engineering as a second degree. To do so, they must complete a minimum of 30 semester hours, in addition to the requirements of the first discipline, and must satisfy all requirements for the second discipline, as shown in the following curricula. 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 of the college, as previously listed.

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 humanities and social studies electives only if scheduled during the student's freshman year. The official list of all humanities 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.

International 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

For a listing of this department's faculty, see the "College of Agriculture," section of this catalog.

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 people'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 mechanization and automation of agricultural production equipment and processes; development of new food processing and packaging systems; environmental control for plant and animal production; management of natural resources including soil, water, forests, and energy; design of agricultural structures; research; and consultation.

There are numerous employers of agricultural engineers in Louisiana and throughout the U.S., such as firms involved in the design, development, and production of agricultural power units and machinery; utility companies; state and federal agencies including 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.

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 Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology since 1952.
FRESHMAN YEAR

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<td>Chemistry 1201, 1202</td>
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<td>Engineering Graphics 1001</td>
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JUNIOR YEAR

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<td>Agronomy 2051</td>
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<td>Civil Engineering 2200, 2250, 3405, 3410</td>
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<td>Electrical Engineering 2950, 3950</td>
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SOPHOMORE YEAR

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<td>Biology 1002</td>
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<td>Civil Engineering 1510, 1550; or 2500, 2510</td>
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<td>Civil Engineering 2450</td>
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<td>Physics 2101, 2102, 2108, 2109</td>
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SENIOR YEAR

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<td>Approved technical electives</td>
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</table>

DEPARTMENT OF CHEMICAL ENGINEERING

CHAIRMAN: McLaughin, Professor

OFFICE: 110 Chemical Engineering Building
TELEPHONE: (504)388-1426

PROFESSORS: Callihan, Corripio, Groves, Harrison, Johnson, Pike, Polack, Pressburg, Rice, Sterling
ASSISTANT PROFESSORS: Frenklach, Knopf, Price, Ristroph, Wetzel

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 in-depth study in an allied field. 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 prepare students for the responsibilities of citizenship aside from a technical career. (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.

Chemical engineers are among the highest-salaried graduates in engineering across the nation. In the foreseeable future, it is predicted that the supply of chemical engineers available to industry will not match the demand; consequently, the salary and job opportunities should continue to be favorable.

The chemical engineering curriculum has held continuous accreditation by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology since 1939.

CURRICULUM IN CHEMICAL ENGINEERING

TOTAL SEM. HRS.: 134

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 Mathematics 1550, 1552, and 2065—is required before students may register for any chemical engineering course other than Chemical Engineering 2171.
Approved electives constitute a block of nine 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 nine elective hours plus the three 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 accepted 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.

<table>
<thead>
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<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
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<td>Physics 1201 or 2101</td>
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<td>Computer Science 2260</td>
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<td>Mathematics 2065</td>
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<td>JUNIOR YEAR</td>
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<td>Chemical Engineering 3172, 3173, 4101, 4102, 4104</td>
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</table>

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.
DEPARTMENT OF CIVIL ENGINEERING

CHAIRMAN: Seals, Professor

PROFESSORS: Arman, Carver, Chubbuck, Dantin, Dart, Kazmann, Thoms, Tumay, Turner

ASSOCIATE PROFESSORS: Alawady, Ferguson, Harris, Poplin, Singh, Suhayda

ASSISTANT PROFESSORS: Acar, Buckner, Field, Gopu, Hill, Hoffman, Malone, Roy, Titlebaum, Voyiadis

INSTRUCTORS: Kelly, Vaughn

Civil engineering is the profession in which a knowledge of the mathematical and physical sciences gained by study, experience, and practice is applied with judgment to develop economic ways to utilize the materials and forces of nature for the progressive well-being of people in creating, improving, and protecting the environment; in providing facilities for community living, industry, and transportation; and in providing structures.

The civil engineering curriculum is designed to provide education in scientific and engineering principles as the basis for a successful professional career. 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 are employed 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 societies. The department recommends that its students join and participate in the student chapter of the American Society of Civil Engineers and encourages each senior to take the Engineer-in-Training (EIT) examination which is a partial requirement for registration as a professional engineer.

This curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

CURRICULUM IN CIVIL ENGINEERING

TOTAL SEM. HRS.: 135

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, 4274; Civil Engineering 3200, 3440, 4120, 4130, 4200, 4250, 4300, 4420, 4430, 4440, 4450, 4500, 4550, 4560, 4600, 4610, 4620, 4760; Mechanical Engineering 4553 (cross-listed with Mathematics 4037), 4563 (cross-listed with Mathematics 4038).

FRESHMAN YEAR

SEMI. HRS.
Chemistry 1201, 1202 .......................................................... 6
Civil Engineering 1510, 1550 ............................................... 4
Engineering Graphics 1001 ................................................. 2
English 1001, 1002 ............................................................ 6
Geology 1001 ................................................................. 6
Mathematics 1550, 1552 .................................................. 10
English 2002, BCOS 2071, Speech 2060, or ROTC .................. 2-3

33-34

SOPHOMORE YEAR

SEMI. HRS.
Civil Engineering 2200, 2250, 2450 ........................................ 7
Economics 2020 or 2030 .................................................. 3
Electrical Engineering 2950 ............................................. 3
Engineering 2060 ........................................................... 3
Engineering Graphics 2154 .............................................. 2
Mathematics 2057, 2090 .................................................. 6
Physics 2101, 2102 ......................................................... 6
Approved science electives or ROTC .................................. 3-4

33-34

JUNIOR YEAR

SEMI. HRS.
Civil Engineering 3300, 3350, 3400, 3410, 3415, 3420, 3600, 3700, 4100, 4110, 4400, 4700 .................................................. 30
Approved humanities/social studies electives ..................... 3

33

SENIOR YEAR

SEMI. HRS.
Civil Engineering 4410, 4770 ............................................. 4
Mechanical Engineering 3133, 3333, 3743 ........................ 9
Approved humanities/social studies electives ................ 9
Approved technical electives ........................................... 12

34

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

CHAIRMAN: Porter, Professor


ASSOCIATE PROFESSORS: Cho, Ho, Jayakumar, Kak, Nethken, Richards

ASSISTANT PROFESSORS: Abderrassoul, Afshar, Aravena, Conners, Olivier, Trivedi

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 electrical engineering electives permit students to develop a program in one of the four areas of technical specialization. The approved technical electives permit students to obtain more depth in the chosen area, explore other areas of electrical engineering, or explore other fields of engineering and science. The basic curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

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.

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.

Students interested in continuing their education through master’s and doctoral programs are advised to seek academic counseling early and to make judicious use of their undergraduate electives.

**CURRICULUM IN ELECTRICAL ENGINEERING**

**TOTAL SEM. HRS.: 135**

A grade of "C" or better in Electrical Engineering 2120, Mathematics 1552, and Physics 2102 is required before students may register for any electrical engineering course other than Electrical Engineering 2720.

In order to develop expertise in at least one of the many areas of electrical engineering, electrical engineering electives may be concentrated in one of the following four areas of specialization: (1) Digital Systems—digital system design, microcomputers, and computer applications; (2) Electronics—theory, design, and fabrication of solid-state devices and design of electronic circuits and systems; (3) Energy—energy conversion, power 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.

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<td>Mathematics 2090</td>
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<th>SENIOR YEAR</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, Mathematics 1552, and Physics 2102 is required before students may register for any electrical engineering course other than Electrical Engineering 2720.
## College of Engineering

### FRESHMAN YEAR

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<td>Electives or ROTC</td>
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### JUNIOR YEAR

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### SOPHOMORE YEAR

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<td>Electrical Engineering 2120, 2130, 2230, 2231, 2720</td>
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### ENGINEERING SCIENCE

The College of Engineering offers an interdisciplinary program leading to the degree of Bachelor of Science in Engineering Science. 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 associate dean 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
TOTAL SEM. HRS.: 135-136

FRESHMAN YEAR  SEM. HRS.  
Chemistry 1001, 1002................................. 6  
Engineering Graphics 1001, 1004...................... 5  
English 1001, 1002.................................... 6  
Mathematics 1021, 1022................................. 6  
Electives or ROTC....................................... 2-3  
Approved humanities/social studies electives... 6  

31-32

SOPHOMORE YEAR  SEM. HRS.  
Civil Engineering 1510, 1550, 2520.................. 7  
Economics 2030.......................................... 3  
Engineering 2060........................................ 2  
Engineering Graphics 2154, 2162........................ 4  
Industrial Engineering 2603............................ 3  
Mathematics 1550......................................... 5  
Electives or ROTC........................................ 6

3-4  

35-36

JUNIOR YEAR  SEM. HRS.  
Agricultural Mechanization 3082 or................... 3  
Electrical Engineering 2950............................ 3  
Chemical Engineering 2171 or Electrical 3-4  
Engineering 3950, 3951................................... 3-4  
Civil Engineering 2400, 2405............................ 6  
Engineering Graphics 3105; 3010 or 3151.............. 5  
Industrial Engineering 4104............................. 3  
Speech 2060................................................ 3  
Approved humanities/social studies electives... 6  
Approved technical electives........................... 6  

35-36

SENIOR YEAR  SEM. HRS.  
Civil Engineering 4500................................... 3  
Engineering Graphics 4152, 4153, 4243, 4255........ 12  
Finance 3200............................................. 3  
Industrial Engineering 4607............................ 3  
Mechanical Engineering 4653........................... 3  
Nuclear Science 3411..................................... 3  
Approved technical electives........................... 6

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DEPARTMENT OF INDUSTRIAL ENGINEERING

CHAIRMAN: Biles, Professor  
PROFESSORS: Hall, Mann, Zohdi  
ASSOCIATE PROFESSORS: Bruckner, Pruett, Ray  
ASSISTANT PROFESSORS: Hotard, Jones  
INSTRUCTOR: Freeman  

Industrial engineering involves the application of scientific principles to the design, installation, and improvement of integrated systems of people, materials, and equipment to provide the most effective operating and work procedures.

Industrial engineering combines principles of human behavior with concepts of engineering procedure or analysis. Industrial engineers engage in work measurement, methods improvement, statistical quality control, plant layout, engineering economy, production control, manufacturing process, industrial automation and robotics, material handling, cost and budgetary control, and operation research studies.

The industrial engineer combines the abilities of an engineer and a manager. These include an aptitude for mathematics, statistics, and economics, as well as for the basic engineering sciences; an interest in all kinds of jobs and the machines and people who produce goods; and the ability to use technical knowledge in a practical way.

Industrial engineers are among the most probable candidates for responsible positions. Their engineering background, experience, and training give them wide acquaintance with industrial problems. Recent developments, such as widespread industrial interest in operations research and automatic data processing, have made the industrial engineers' entrance into management even more likely, for their training gives familiarity with quantitative methods of production control. At present, the demand for industrial engineers exceeds the supply, thus assuring job opportunities.

The industrial engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

CURRICULUM IN INDUSTRIAL ENGINEERING
TOTAL SEM. HRS.: 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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JUNIOR YEAR

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SOPHOMORE YEAR

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<td>Mathematics 2057, 2090</td>
<td>7</td>
</tr>
<tr>
<td>Physics 2102, 2109</td>
<td>4</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>34-35</td>
</tr>
</tbody>
</table>

SENIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial Engineering 4425, 4511, 4516</td>
<td>9</td>
</tr>
<tr>
<td>Mechanical Engineering 3333, 3711, 3733, 4601</td>
<td>8</td>
</tr>
<tr>
<td>Approved humanities/social studies electives</td>
<td>9</td>
</tr>
<tr>
<td>Approved industrial engineering electives</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

DEPARTMENT OF MECHANICAL ENGINEERING

CHAIRMAN: Sharpe, Professor

PROFESSORS: Arnas, Daniel, Maples, Matula, McPhate, Miller, Raman, Sabbaghian, D. Thompson, Whitehouse

ASSOCIATE PROFESSORS: Brewer, Courter, Oliver, Yannitell

ASSISTANT PROFESSORS: Catalano, Cundy, Eaton, Elfer, Sehitoglu, Shelton, J. Thompson

The mechanical engineer is primarily concerned with thermal and mechanical energy. Thermodynamics and heat transfer are the basic sciences involved in thermal energy, which includes the transmission of thermal energy (as in a boiler where the heat of the burning fuel is used to produce steam) and the conversion from thermal to mechanical energy (as in an internal combustion engine). Applications in this area include environmental control, heating and air conditioning, and refrigeration as well as power-plant design and analysis.

Mechanical energy is that associated with motion and force. Dynamics is the basic science involved, and the applications, often referred to as machine design, are numerous. The control system in an airplane transforms hydraulic energy into the precise motions of the control flaps and rudder. The power train of an automobile converts the energy output of the engine into the desired motion of the automobile. Extremely precise mechanical systems are required for tape drives, printers, etc. in the computer industry.

The demand for mechanical engineers far exceeds the supply. In the petrochemical industry, they design and maintain production and refining equipment. In the automotive, aerospace, and manufacturing industries, they design and produce mechanical components and systems.

The mechanical engineering curriculum is accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

CURRICULUM IN MECHANICAL ENGINEERING

TOTAL SEM. HRS.: 135

A grade of "C" or better is required in Chemistry 1202, Mathematics 1552, and Physics 2101 (or equivalent courses) before a student may enroll in Mechanical Engineering 2333.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>Engineering Graphics 1001</td>
<td>2</td>
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<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
</tr>
<tr>
<td>Physics 2101, 2108</td>
<td>4</td>
</tr>
<tr>
<td>Approved humanities/social studies electives</td>
<td>3</td>
</tr>
<tr>
<td>ROTC*</td>
<td>0-3</td>
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<td></td>
<td>33-36</td>
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</table>

SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Civil Engineering 2450</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science 2262</td>
<td>3</td>
</tr>
<tr>
<td>Electrical Engineering 2950</td>
<td>3</td>
</tr>
<tr>
<td>English 2002 or ROTC</td>
<td>3</td>
</tr>
<tr>
<td>Industrial Engineering 2603</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 2057</td>
<td>3</td>
</tr>
<tr>
<td>Mechanical Engineering 2333, 2733, 2833, 3133</td>
<td>12</td>
</tr>
<tr>
<td>Physics 2102, 2109</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>34</td>
</tr>
</tbody>
</table>
JUNIOR YEAR

Civil Engineering 3405............................. 4
Economics 2030..................................... 3
Electrical Engineering 3950, 3951................... 4
Mathematics 4037..................................... 3
Mechanical Engineering 3602, 3701, 3752, 4133, 4233, 4343, 4433 ......... 17
Approved humanities/social studies elective ...... 3

SENIOR YEAR

Mechanical Engineering 3801, 4143, 4172, 4201, 4202, 4232, 4401, 4611 .................. 13
Approved humanities/social studies electives.... 9
Approved technical electives* ...................... 9-12

31-34

*ROTC is optional. If it is not taken, an approved technical elective must be scheduled in the senior year.

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.

DEPARTMENT OF PETROLEUM ENGINEERING

CHAIRMAN: Bourgoyne, Professor

CAMPANILE PROFESSOR OF PETROLEUM ENGINEERING: Kimbler
PROFESSORS: Holden, Martinez, Whitehurst
ASSOCIATE PROFESSORS: Bassionki, Bernard, Whitehead
ASSISTANT PROFESSORS: Langlinais, Monger, Veazey
INSTRUCTOR: McMullan

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 Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology.

CURRICULUM IN PETROLEUM ENGINEERING

TOTAL SEM. HRS.: 131

A grade of "C" or better in Mathematics 1550, 1552 and Physics 2101 is required before students may register for any petroleum engineering course other than Petroleum Engineering 2020. Students transferring to this curriculum from institutions outside the LSU System or from non-engineering disciplines within the LSU System must have earned at least a 2.50 average on all coursework attempted at U.S. institutions. Students transferring to this curriculum from other engineering disciplines within the LSU System must have earned at least a 2.30 average on all coursework attempted at U.S. institutions.
### FRESHMAN YEAR
<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Geology 1001, 1601</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics 1550, 1552</td>
<td>10</td>
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<tr>
<td>Physics 2101, 2108</td>
<td>4</td>
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<tr>
<td>Electives or ROTC</td>
<td>2-3</td>
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<tr>
<td><strong>Total</strong></td>
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### JUNIOR YEAR
<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Civil Engineering 3400</td>
<td>3</td>
</tr>
<tr>
<td>Electrical Engineering 2950</td>
<td>3</td>
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<tr>
<td>Geology 3031</td>
<td>3</td>
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<tr>
<td>Mechanical Engineering 2833, 3333</td>
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<td>Petroleum Engineering 3031, 3032, 3034, 3036</td>
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<tr>
<td>Approved humanities/social studies electives</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>Petroleum Engineering 3035, 3053, 4045, 4046, 4051, 4052, 4057, 4058, 4059</td>
<td>21</td>
</tr>
<tr>
<td>Approved humanities/social studies electives</td>
<td>9</td>
</tr>
<tr>
<td>Approved technical elective</td>
<td>3</td>
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<td><strong>Total</strong></td>
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### FIFTH YEAR
<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Chemical Engineering 4151, 4172, 4190, 4261</td>
<td>13</td>
</tr>
<tr>
<td>Petroleum Engineering 4045, 4046, 4051, 4052, 4057, 4058, 4059</td>
<td>15</td>
</tr>
<tr>
<td>Approved humanities/social studies electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

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**CURRICULUM IN PETROLEUM-CHEMICAL ENGINEERING**

This combined five-year 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.

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 Mathematics 1550, 1552, and 2065—is required before students may register for any chemical engineering course other than Chemical Engineering 2171.

A grade of "C" or better in Mathematics 1550, 1552, and Physics 2101 (or 1201) is required before students may register for any petroleum engineering course other than Petroleum Engineering 2020. Students transferring to this curriculum from institutions outside the LSU System or from non-engineering disciplines within the LSU System must have earned at least a 2.50 average on all coursework attempted at U.S. institutions. Students transferring to this curriculum from other engineering disciplines within the LSU System must have earned at least a 2.50 average on all coursework attempted at U.S. institutions.
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; to students majoring in agricultural mechanization, construction, industrial technology, mathematics, and merchandising; and 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. 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.
General College

JACK B. PARKER, Dean
150 Himes Hall
(504)388-8256

General College provides the administrative structure for a variety of degree and non-degree programs. Three undergraduate degree programs have been designed and implemented to meet the academic requirements 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. Additionally, General College currently sponsors six non-degree programs that have been tailored to meet the academic needs of the growing numbers of non-traditional students seeking admission to LSU. All degree and non-degree programs are consistent with the college’s commitment of helping students plan individual programs of study which conform to high standards of excellence and of permitting students to achieve individual, professional, and educational goals of an interdisciplinary nature.

General College offers three undergraduate degrees, as shown in the following chart.

In addition special non-degree programs have been developed for adult special students (PASS); nonmatriculating students (NMATR); students concurrently enrolled at LSU and Southern University (SCOOP); students enrolling for the summer term only (SU); special students that are permitted to enroll but are not admitted to the university (NORAD); and students admitted on the Alexandria campus but enrolled in courses sponsored by the Baton Rouge campus (LSUA).

All nine programs currently offered by General College are described in the following sections.
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. Any additional requirements for admission may be found in the individual curriculum descriptions on the following pages.

DEGREE REQUIREMENTS OF THE COLLEGE

To qualify for a particular degree in the college, a student must meet the following requirements:

1. Complete an established program of studies and be approved for the degree by the faculty and the dean of the college.

2. In addition to having satisfied the admission requirements of the college and the department concerned, satisfactorily complete a curriculum with at least a 2.00 average in all courses required for the degree and an overall 2.00 average.

3. Earn a specified number of credits while registered in the college, depending on the individual's curricular requirements. In all cases, students transferring into the college must meet a residency requirement.

4. Attain proficiency in English by obtaining an acceptable grade in English 1002, passing the English Proficiency Examination, or attending the English Writing Laboratory.

5. In the final year, complete the check-out of all coursework required for the degree during the semester prior to the semester in which the degree is to be awarded.

STUDENT RESPONSIBILITY

Each student bears final responsibility for selecting an academic program and adhering to all published regulations and degree requirements of the college. Each student must assume responsibility for the check-out of coursework required for the degree.

MAXIMUM COURSE LOAD AND CORRESPONDENCE WORK

The maximum load for which a student in this college may register is 18 semester hours during the regular semester and 10 semester hours during the summer term, including any correspondence work taken simultaneously. Exceptions to this must have approval of the dean. 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 the college who are on scholastic probation may be placed on a restricted schedule by the dean and will remain so until their overall average has been raised sufficiently to indicate that they are capable of carrying a larger load.

REQUIREMENTS FOR A SECOND BACHELOR'S DEGREE

Students holding baccalaureate degrees who wish to obtain a second baccalaureate degree may do so by registering in the college and completing a minimum of 30 semester hours beyond their previous degree requirements. A minimum 2.00 average must be earned on this subsequent work.
ADMINISTRATION AND COUNSELING

Academic records for students enrolled in General College are maintained in the office of the dean. The counseling program in the college provides students with an opportunity to seek assistance in both academic and personal matters.

Departments and Curricula

DEPARTMENT OF CONSTRUCTION

CHAIRMAN: Kaple, Associate Professor
ASSOCIATE PROFESSORS: Nethken, Poplin
ASSISTANT PROFESSORS: Kinchen, O'Quinn, Smith
INSTRUCTOR: Rosso

The Department of Construction offers the degree of Bachelor of Science in Construction. The department recognizes that its graduates are professionals, distinct from engineers and architects. The curriculum offers a broad technical education which includes basic science, mathematics, and engineering. The professional component of the curriculum provides a thorough understanding of the construction industry and prepares students for management-level positions in construction.

English Proficiency: Students must obtain a grade of "B" or better in English 1002 or a grade of "C" or better in English 1003 or a passing grade on the English Proficiency Examination.

Course Sequence: Prerequisites are rigidly enforced.

Residency: Students must earn at least 24 of the last 30 hours offered toward the degree in residence in the Department of Construction.

CURRICULUM IN CONSTRUCTION

TOTAL SEM. HRS.: 134

FRESHMAN YEAR

Computer Science 1240 ........................................ 3
Construction 1011, 1511, 1583 ................................. 6
English 1001, 1002 .............................................. 6
Environmental Studies 1000 ................................. 3
Geology 1001, 1601 .............................................. 4
Mathematics 1021, 1022 ......................................... 6
Speech 1061 ......................................................... 3
Approved humanities elective or ROTC .................. 2-3

33-34

SOPHOMORE YEAR

Accounting 2001, 2101 .......................................... 6
BCOS 2071 or English 2002 ................................. 3
Civil Engineering 2081, 2500, 2510 ....................... 6
Construction 2040 .............................................. 3
Economics 2030 .................................................. 3
Mathematics 1441 ............................................... 3
Physics 2001, 2002 .............................................. 6
Approved social science elective or ROTC ........... 3-4

33-34

JUNIOR YEAR

Civil Engineering 3082, 3700 .................................. 4
Construction 3083, 3091, 3171, 3573, 3574, 3579, 3587 18
Industrial Education 2051 .................................. 3
Industrial Engineering 4201 ................................ 3
Management 3159 ............................................... 3
Management 4164 or 4167 .................................. 3

34

SENIOR YEAR

Civil Engineering 3983 .......................................... 3
Construction 2024, 3110, 3561, 3562, 3593, 3594 21
Finance 3201 ..................................................... 3
Approved business administration elective (3000-4000 level) or Construction 3591 3
Approved senior elective (3000-4000 level) .......... 3

33

DEPARTMENT OF CRIMINAL JUSTICE

HEAD: Weirman, Assistant Professor
ASSOCIATE PROFESSORS: Parker, Winfree
ASSISTANT PROFESSORS: Archambeault, Elmore, Evans

The criminal justice curriculum is designed to provide a thorough overview of the field of criminal justice. The curriculum makes available to students knowledge about the causes and significance of crime, conflict, and other problems of justice. Courses include the legal, philosophical, and moral foundations of justice systems; theories and facts about the nature and causes of crime and delinquency; analysis of the operations...
of criminal and juvenile justice systems; and the planning and management of courts, community and institutional correctional systems, juvenile facilities, and law enforcement operations.

Through the selection of criminal justice and free electives, students can prepare for careers in specific areas of the criminal justice system. They may choose electives in juvenile justice, corrections, or enforcement. A general program may also be developed. The Master of Criminal Justice degree is available through the Graduate School.

English Proficiency: Students must obtain a grade of "C" or better in English 1002 or a passing grade on the English Proficiency Examination.

Residency: Students must earn at least 24 of the last 30 semester hours in residence in the Department of Criminal Justice.

CURRICULUM IN CRIMINAL JUSTICE
TOTAL SEM. HRS.: 130

FRESHMAN YEAR SEM. HRS.
Anthropology 1003, Geography 1001, or History 2023 ........................................ 3
Books and Libraries 1001 ........................................ 1
Criminal Justice 1107, 1108 .......................................... 4
English 1001, 1002 ........................................... 6
Journalism 2090 .................................................. 3
Mathematics 1009, 1010; or 1021, 1022 ........................ 6
Sociology 2001 .................................................. 3
Natural science electives ........................................ 6
Electives or ROTC ................................................ 2

JUNIOR YEAR SEM. HRS.
Criminal Justice 3100, 3101, 3152, 3399, 3400, 3401 18
Criminal Justice 3170, 3212, or Social Welfare 3007 (select two) 6
Psychology 2040 .................................................. 3
Sociology 2501 .................................................. 3
Electives .......................................................... 2

SOPHOMORE YEAR SEM. HRS.
Criminal Justice 2131, 2132, 2133, 2399 12
English 2002 ..................................................... 3
Political Science 2051, 2056 ............................... 6
Psychology 2000, 2004 ......................................... 6
Speech 2060 ..................................................... 3
Electives or ROTC ................................................ 4

SENIOR YEAR SEM. HRS.
Criminal Justice 3002, 3004, 4000, 4001 12
Criminal Justice 4010, 4133, 4140 (select two) 6
Political Science 4021 ......................................... 3
Sociology 4461 .................................................. 3
Electives .......................................................... 6

34

32

GENERAL STUDIES

The degree of Bachelor of Science in General Studies was designed primarily for those students whose career and educational goals require a very broad and flexible program of studies. Students, along with academic advisers, design individualized programs to prepare for career choices, professional studies, or graduate studies.

CURRICULUM IN GENERAL STUDIES
TOTAL SEM. HRS.: 128

To obtain a Bachelor of Science in General Studies, a student must satisfy the following requirements:

1. A minimum of 18 semester hours must be earned in each of the three groups listed below. A minimum of 22 additional semester hours must be earned in one of the three groups for a concentration.

   **Group I—Humanities**
   - Art
   - English
   - Languages
   - Music
   - Speech

   **Group II—Social Sciences**
   - Anthropology
   - Economics
   - Geography
   - History
   - Philosophy
   - Political Science
   - Psychology
   - Sociology

   **Group III—Natural Sciences**
   - Astronomy
   - Biology
   - Chemistry
   - Engineering
   - Entomology
   - Geology
   - Microbiology
   - Mathematics
   - Physical Science
   - Zoology

2. The remaining 52 semester hours are electives and must be chosen with the approval of an academic adviser. An elective may be either within or outside the three groups.

3. A minimum of six semester hours of English, including English 1002, is required. Students earning a grade of less than "C" in English 1002 must pass the English Proficiency Examination. Students who do
not pass this examination must attend the English Writing Laboratory until certified proficient in English.

4. A minimum of 30 semester hours 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.

5. Not more than 50 semester hours in courses numbered below 2000 may be used for degree credit.

6. Not more than 24 semester hours in any one subject may be used for degree credit.

7. Not more than nine semester hours in mathematics courses numbered below 1550 will be allowed toward the degree.

8. A 2.00 average on all work taken in the program, 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.

9. A minimum of 30 semester hours of credit earned in residence after admission to the program 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 the program. Correspondence work or credit earned by advanced-standing examinations is not accepted as residence credit.

SPECIAL PROGRAMS

Program for Adult Special Students (PASS)

The “PASS” program involves part-time study for people who want to start or go back to the University somewhat later in life than usual. Some of the goals of this program include helping adults update their skills and add to job success, ultimately seek a degree, develop a hobby so that leisure time may be more rewarding, or simply to rejuvenate the mind. Admission and registration procedures are simplified for added convenience.

Nonmatriculated Students (NMATR)

Non-degree seeking students, as well as students not meeting senior college scholastic requirements, may enroll in the division as nonmatriculated. NMATR students who desire a degree at a later date follow the curriculum for their desired degree choice. All university policies regarding academic action apply to NMATR students. Such students may obtain counseling and academic advice through the office of the dean.

Not Regularly Admitted Students (NORAD)

Students who are within 12 hours of graduation at another college or university and who take courses at LSU to be transferred to that university for degree credit register as NORAD. No academic action is taken on these students.

LSU-A Residence Program (LSUA)

Since LSU at Alexandria is a two-year school, 3000/4000 level courses are not offered there. However, regularly enrolled LSU-A students may take 3000/4000 level courses at the Resident Center maintained by the Baton Rouge campus at LSU-A. There are no additional admission requirements for these students, and no academic action is taken on them.

Southern Cooperative Program (SCOOP)

Students enrolled at Southern University who take courses at LSU without charge register as SCOOP. These students receive approval of their course schedule from their Southern University academic dean. No academic action is taken on these students.

Summer Only Students (SU)

Students who are regularly enrolled at other colleges or universities and attend LSU for the summer term only register as SU. They are not regularly admitted students. No academic action is taken on these students.
PLACEMENT SERVICES

Students pursuing degrees in either criminal justice or general studies may use the services of the Career Opportunity Center in Himes Hall. Services available to students include counseling, job-seeking skills workshops, job search handbooks, résumé service, career days, and on-campus recruiting and interviews.

The Center for Engineering and Business Administration (CEBA) Placement Office arranges for interviews for students in construction. Students should contact this office as soon as they register each fall in order to receive information concerning job opportunities.

DIVISION OF INSTRUCTIONAL SUPPORT AND DEVELOPMENT

DIRECTOR, Rankin, Associate Professor
OFFICE: 118 Himes Hall
TELEPHONE: (504)388-1135

Various centers of the Division of Instructional Support and Development, a unit of General College, provide instructional and administrative support to the University. The Instructional Resources Center provides faculty, staff, and students with audio-visual equipment, electronic repair and installations, and audio duplication services for the enhancement of the instructional process. The Media Production Center works with faculty in the design, production, and implementation of instructional technology materials. Services include photography, graphics, audio recording, television production, and the production of slide/tape programs. The Instructional Support Center provides access to the 16mm film library, a sound/filmstrip materials library, and the instructional television studio. The Career Opportunity Center assists graduating seniors in the general studies and criminal justice curricula and in the various curricula in the College of Arts and Sciences in their search for employment. The Measurement and Evaluation Center supports instruction via the LSU Test Scoring Service and administration of institutional and national tests for placement, advanced-standing credit, and admission to graduate and professional schools. Administratively, the Measurement and Evaluation Center is the central repository for ACT and many advanced-standing test results.
Graduate, Professional, and Research Units

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.

Institute for Environmental Studies

DIRECTOR: Thoms, Professor
PROFESSOR: Newchurch
ASSISTANT PROFESSOR: Waldon
CONSULTING PROFESSOR: Kolb

OFFICE: 42 Atkinson Hall
TELEPHONE: (504)388-8521

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 functions in an interdisciplinary capacity and reports to the Vice-Chancellor for Research.

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.
Graduate Division of Education

DIRECTOR: Smith, Professor

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 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 may be reconsidered for probationary admission after the successful completion of at least nine semester hours of post-baccalaureate work at the 4000- or 5000-level and the submission of aptitude and advanced scores on the Graduate Record Examination. Post-baccalaureate work may not be counted 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 $20 nonrefundable application 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 08450.
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. An applicant meeting admission 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.

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) a 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; the GMAT is required of applicants to the M.B.A. program); 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 International Students

An applicant who has not completed 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, marksheets,
certificates of degrees—showing all courses taken and all grades received, with certified translations if the records are in a language other than English; (3) a bachelor's degree or its equivalent, with a 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 applicants whose native language is not English.

Applications from international 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 international 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).

International 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 international 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 international 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.

An international applicant who has completed undergraduate requirements at an accredited U.S. institution should follow the regular admission procedures.

ADMISSION PROCEDURES

Application for admission to the Graduate School should be submitted as early as possible in the academic session immediately preceding the one in which admission is sought. Some departments require that applications be received by a specific date. For information concerning the procedures applicable to a particular field of study, write to the chairman of graduate admissions of the appropriate department. The application must be accompanied by a $20 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 from each college or university attended, 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). The completed application form, application fees, and official transcripts must be submitted to the Office of Admissions. Official test scores should be forwarded directly to the Graduate School.

Admission is only for the semester requested. Persons who are admitted and do not register must make a formal request to be reconsidered 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.

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.

School of Library and Information Science

ACTING DEAN: Cairns, Associate Professor
PROFESSOR: Patterson
ASSOCIATE PROFESSORS: Miksa, Perritt
ASSISTANT PROFESSORS: Krieger, Shiflet

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. In 1981, the name was changed to the School of Library and Information Science. Organized to meet the demands for professional education for librarianship, the school offers preparation for positions in all areas of library and information service.

The school’s program is accredited by the American Library Association, and the school is a member of the Association of American Library Schools.

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. Courses in computer science will be helpful. The School of Library and Information 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.
Students working toward the degree offered through the School of Library and Information Science are enrolled in the Graduate School; therefore, applicants must meet the general Graduate School requirements in addition to School of Library and Information Science requirements. Application forms may be obtained from the Office of the dean or from the Office of Admissions. Admission will be based on the candidate's scholastic record and aptitude for library work. Personal interviews are desirable and should be arranged if possible.

Requirements for the Master of Library Science degree are as follows: (1) satisfactory completion of a minimum of 43 semester hours. (These hours must include a minimum of 37 semester hours of library science and adjacent courses. Up to six semester hours of approved graduate-level coursework from within the LSU System may be applied to the 43 semester-hour minimum requirement.); (2) successful performance on a written comprehensive final examination; (3) fulfillment of the minimum residence requirement of one regular semester or one summer term as a full-time student at this University; (4) completion of the degree program in six years. Credit for individual courses taken more than six years before the completion of the program may be validated with permission of the instructor of the course and the dean, and with approval of the dean of the Graduate School. Requirements for so doing are set by the instructor.

**Nuclear Science Center**

DIRECTOR: Lambremont, Professor

PROFESSORS: Courtney, Iddings

ASSOCIATE PROFESSORS: Knaus, McIlhenny

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 a variety of ionization, proportional, Geiger-Mueller, solid-state, and scintillation detectors with the appropriate power supplies, amplifiers, and scalers; automatic liquid scintillation spectrometers; multichannel gamma spectrometers; a neutron generator; x-ray machines; a kilocurie cobalt-60 pool irradiator; 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. The center offers two degrees at the master's level—the Master of Science in Nuclear Engineering and the Master of Science with a major in nuclear science. In addition to academic and research programs, the center organizes conferences and symposia to advise industry and the general public of nuclear applications developments pertinent to Louisiana and the south.

Laboratories for the graduate programs are included in the center.

**School of Social Welfare**

ACTING DEAN: Mohan, Professor

OFFICE: 178 Old Law Building

TELEPHONE: (504) 388-5875

ACTING ASSOCIATE DEAN—ADMINISTRATION: Roundtree, Associate Professor

ACTING ASSOCIATE DEAN—ACADEMICS: Daste, Associate Professor

PROFESSORS: Dawson, Perkins, Wiest

ASSOCIATE PROFESSORS: Abatena, Behre, Cook, Edwards, Fatout, Grenier, Herrin, Hines, Rayne, Reed, P. Sanzenbach, Smith, Stewart

ASSISTANT PROFESSORS: Balthazar, Chung, Crane, Durrett, Gibson, Glaser, Hartman, B. Sanzenbach, Snyder

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.

A combined curriculum in arts and sciences and social welfare is available. 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 "Combined Curricula," in the "College of Arts and Sciences" section of this catalog.)

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 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.

Minimum requirements for the M.S.W. degree include completion of the following: (a) one academic year, ordinarily two consecutive semesters, in residence at LSU; (b) 60 semester hours of credit in professional courses approved by the faculty of the school, including at least 18 semester hours in residence at LSU and specified hours in internship practice courses; (c) a satisfactory thesis or research project; and (d) a scholastic average of 3.00 and a grade of not less than "C" in any course offered for the degree.

School of Veterinary Medicine

DEAN: Besch, Professor
ASSOCIATE DEAN: Tasker, Professor
ASSISTANT DEAN: Kerr, Professor
COORDINATOR OF PUBLIC PROGRAMS: Rhoades, Professor
COORDINATOR FOR ADVANCED STUDIES: Roberts, Professor

DEPARTMENT OF EPIDEMIOLOGY AND COMMUNITY HEALTH

ACTING HEAD: Hagstad, Associate Professor
ASSOCIATE PROFESSORS: Hugh-Jones, Shane

DEPARTMENT OF VETERINARY ANATOMY AND FINE STRUCTURE

HEAD: Titkemeyer, Professor
PROFESSORS: Abdelbaki, Hillmann, Myers
ASSOCIATE PROFESSORS: Al-Bagdadi, Duffield, Haldiman
ASSISTANT PROFESSORS: Henk, Henry

DEPARTMENT OF VETERINARY CLINICAL SCIENCES

HEAD: Lingard, Professor
PROFESSORS: Archbald, Bivin, Carter, Haynes, Hoskins, Root
ASSOCIATE PROFESSORS: Beadle, Breitschwerdt, Hulse, Luther, Watters
ASSISTANT PROFESSORS: Braun, French, Glaze, Hedlund, Hribernik, Karns, King, Lindsay,
J. McClure, R. McClure, McCoy, Nafe, Olcott, Pavletic, Richardson, Shires, Smith, Turnwald
INSTRUCTOR: Carraway
DEPARTMENT OF VETERINARY MICROBIOLOGY AND PARASITOLOGY

ACTING HEAD: Stewart, Professor
PROFESSORS: Amborski, Barta, Besch, Cox, Dommert, Issel
ASSOCIATE PROFESSORS: Fulton, Klei, Malone
ASSISTANT PROFESSOR: Thune

OFFICE: 3313 Veterinary Medicine Building
TELEPHONE: (504)346-3312

DEPARTMENT OF VETERINARY PATHOLOGY

ACTING HEAD: Tasker, Professor
PROFESSOR: Roberts
ASSOCIATE PROFESSORS: Cho, Snider
ASSISTANT PROFESSORS: Carakostas, Miller, Qualls, J. Turk, M. Turk

OFFICE: 2305 Veterinary Medicine Building
TELEPHONE: (504)346-3225

DEPARTMENT OF VETERINARY PHYSIOLOGY, PHARMACOLOGY, AND TOXICOLOGY

HEAD: Morrisette, Professor
PROFESSORS: Crawford, Short
ASSOCIATE PROFESSORS: Ingraham, Lee, Nicholson
ASSISTANT PROFESSORS: Flory, Kappel, Ruhr, Strain, Venugopalan

OFFICE: 2536 Veterinary Medicine Building
TELEPHONE: (504)346-3202

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. Opportunities for admission of residents of Puerto Rico have also been developed.

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 for animals, a sincere desire to serve the public, a propensity for the biological and medical sciences, and a deep interest in promotion of the health of animal and human populations. They must have a high aptitude for scientific study and must possess an excellent moral and ethical character.

Candidates for the Doctor of Veterinary Medicine degree must complete a minimum of six years of college education. This includes two or more years of 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 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 from Louisiana residents may be submitted no earlier than January 1 and no later than February 15 of the calendar year in which admission is sought. Applications from residents of contract states must be received between January 1 and February 1. Students reapplying must submit a new application for each application period. Students admitted and enrolled in the school must be capable of meeting satisfactorily all requirements of the curriculum in veterinary medicine. Eligible candidates are interviewed by members of the Committee on Admissions and are carefully selected to make sure they are properly motivated, equal to the rigorous course of professional study, and capable of meeting satisfactorily all requirements of the veterinary medicine curriculum. 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, transcripts, work experience, and familiarity with animals). The second committee evaluates the individual through a personal interview. For Louisiana applicants, three members from each committee independent-
ly 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 1021, 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

DEAN: Van Lopik, Professor  
OFFICE: 124 Wetland Resources Building  
BOYD PROFESSORS: Coleman, Patrick  
PROFESSORS: Day, Gosselink, Hsu, Murray, Prior, H. Roberts, Schweitzer, Stone, Wiseman, Young  
ASSOCIATE PROFESSORS: Bahr, Gambrell, Huh, K. Roberts, Rouse, Turner, Wang  
ASSISTANT PROFESSORS: C. Adams, R. Adams, Chuang, Costanza, Mendelssohn, Smith, Stoessell, Wells

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.

*Members of the Department of Marine Sciences graduate faculty.*
COASTAL ECOLOGY LABORATORY

DIRECTOR: Day, Professor
OFFICE: 229 Wetland Resources Building
TELEPHONE: (504)388-1558

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

DIRECTOR: Coleman, Boyd Professor
OFFICE: 215 Coastal Studies Building
TELEPHONE: (504)388-2395

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

CHAIRMAN: Gosselink, Professor
OFFICE: 118 Wetland Resources Building
TELEPHONE: (504)388-1558

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. Complete descriptions of all courses offered by the Department of Marine Sciences are included in this catalog.
OFFICE OF SEA GRANT DEVELOPMENT

DIRECTOR: Van Lopik, Professor

OFFICE: 124 Wetland Resources Building
TELEPHONE: (504)388-1558

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. The three general categories of activities called for under the act are 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

DIRECTOR: Patrick, Boyd Professor

OFFICE: 105 Wetland Soils Building
TELEPHONE: (504)388-8810

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.
Junior Division

VINCENT E. CANGELOSI, Dean
LAURA F. LEMOINE, Associate Dean
CAROLYN C. COLLINS, Assistant Dean
150 Allen Hall
(504) 388-6822

Junior Division is the academic and administrative college for all freshmen at LSU as well as 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 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 JD's full-time counseling staff. 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. It meets only twice during the semester.

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 Measurement and Evaluation Center, 51 Himes 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. Occasionally, because of a student’s initial placement in mathematics, English, or reading, substitutions of courses must be made in order for each student to do his or her best work.

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.

PRE-NURSING PROGRAM

LSU does not offer a degree in nursing on the Baton Rouge campus; however, Junior Division offers a pre-nursing program ranging from one to four semesters, depending upon the professional school of nursing which the student wishes to enter. Pre-nursing requirements vary, and since entry into the professional program is usually on a competitive basis, students are encouraged to meet pre-nursing requirements for more than one school. Prospective nursing students should obtain a list of the specific requirements from each school of nursing to which they will seek admission.

LSU students who register concurrently for courses at another college or university are responsible for maintaining an up-to-date academic record on this campus so that academic regulations may be accurately applied.

Admission to 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 this nursing school 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 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>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Biology 1001, 1003, or Zoology 1001</td>
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<tr>
<td>Chemistry 1201, 1202*</td>
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<tr>
<td>English 1001, 1002</td>
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<tr>
<td>Mathematics 1021</td>
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<tr>
<td>Microbiology 2051</td>
<td>4</td>
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<td>Psychology 2000</td>
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<td>Sociology 2001</td>
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</tr>
<tr>
<td>Approved humanities electives**</td>
<td>3</td>
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<tr>
<td>Approved social science electives***</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>**</td>
<td>38</td>
</tr>
</tbody>
</table>

*Student must qualify for Mathematics 1021 to be eligible to schedule Chemistry 1201.

** Select courses in art, art history, foreign languages, journalism, music appreciation, philosophy, or speech.

***Select courses in anthropology, economics, education, geography, history, or political science.

**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 A&S 1001, 1002, 1003, and 1004. The 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 “Division of Honors and Interdisciplinary Studies,” in the “College of Arts and Sciences” section of this catalog.

ADVANCED-STANDING EXAMINATIONS

Students of superior ability and preparation, and students who have already gained a fundamental knowledge of subjects offered at the University may earn degree credit through advanced-standing examinations in specific courses. Further information concerning these examinations is given in the section of this catalog entitled “University Regulations.”

ACADEMIC SKILLS ENHANCEMENT PROGRAM

The Academic Skills Enhancement Program (ASEP), administered by Junior Division, was initiated for students who enter LSU with demonstrable gaps between their levels of preparation and the levels expected in standard freshman courses. The program consists of writing skills (English 0003 and 0006), quantitative skills (Mathematics 0004 and 0005), and reading skills (JD 0010 and 0011). 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.

SPECIAL SERVICES PROGRAM

The Special Services Program is designed to provide special services for students who are underprepared to take some college courses and who are in need of services to assist them in initiating, continuing, or resuming their college education. The Special Services Program includes study skills (JD 0006), reading skills (JD 0016), tutorial assistance, counseling, career information, cultural enrichment, and referrals to other agencies and resources to resolve noneducational problems related to academic success. The goal of the program is to increase retention and graduation rates of students enrolled at LSU. Further information may be obtained from the Special Services Office, 150 Allen Hall.

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 had have at least a 2.00 average on all work attempted;
2. meet the reading proficiency requirements of Junior Division (see the “Proficiency in Reading” section); and
3. 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.

PROFICIENCY IN READING

Junior Division students whose reading skill is below the 11th-grade level, as ascertained by ACT scores and/or a diagnostic reading test, will be placed in a reading course. Students may not be admitted to a senior college until they pass JD 0011 or 0016 or are exempted.
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 the 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"); or (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; or (2) placed on scholastic probation if their cumulative average is at least 1.00 but is 10 or more quality points below 2.00 ("C").

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 earned a 2.00 cumulative average on both LSU and transfer work.

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 record 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.
School of Music

LYLE C. MERRIMAN, Dean
RICHARD F. NOREM, Assistant Dean
163 Music and Dramatic Arts Building
(504) 388-3261

The School of Music’s educational purpose is directed toward assisting students in the development of their innate musical talents and in helping them make the musical arts a cultural asset in their own lives and in the lives of others.

To attain these goals, the School of Music offers several curricula and special courses of vocational as well as avocational nature. These curricula are outlined in the following chart. The vocational programs prepare students to be performers, teachers, composers, and church musicians, and culminate with the undergraduate degree, Bachelor of Music, awarded through the School of Music. The Bachelor of Music Education degree, designed to train students to teach vocal and instrumental music in the public schools where state certification is required, is offered in conjunction with the College of Education (see the “College of Education,” for curricula). Persons wishing a broader variety of subjects in addition to a basic foundation in music may follow one of the curricula leading to the Bachelor of Arts degree offered in conjunction with the College of Arts and Sciences (see “Curricular Requirements,” and “Curricula Administered by the College,” in the “College of Arts and Sciences” section of this catalog).

The first 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.

SCHOOL OF MUSIC

CURRICULA

- Brass Major—Multiple Brass Minor
- Composition
- Instrumental Major (excluding keyboard instruments)
- Organ
- Piano Performance/Studio Teaching Piano
- Sacred Music (with options)
- String Major—Multiple Strings Minor
- Voice
- Woodwind Major—Multiple Woodwind Minor

DEGREE

Bachelor of Music
The curricula in music education meet requirements of the Louisiana State Department of Education for accrediting various types of music instructors in the Louisiana public schools and are approved by the National Council for Accreditation of Teacher Education and the National Association of Schools of Music. The School of Music is a member of 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 Junior Division section entitled "Admission to a Senior College from JD," provided that they have credit for the freshman-year courses of the curriculum they plan to follow. Students must have earned an overall average of 2.00 or better in order to be admitted unconditionally to the school. Freshmen who plan to work for a degree in music should register for the courses listed in the freshman year of the music curriculum of their choice. It is recommended that freshmen register for piano during their first semester unless they can pass the proficiency test in piano.

**By Transfer**

Transfer students from other divisions of the University or from other colleges and universities who have met the general entrance requirements of the University, who have completed college courses equivalent to those offered in Junior Division, and who have passed the required audition for admission may be admitted to the school. All transfer students must take an advisory examination in theory. This includes ear-training, keyboard work, harmonization, and analysis. The results of the examination will be used to aid in planning a practical schedule of courses consistent with the student's training and ability. The examinations will be given from 1:30-5:00 p.m. on the first day of classes in each semester or summer term. Nonmatriculating graduate students may be excused from these advisory examinations. Since all registration for transfer students is provisional, programs will be changed if the results of these examinations indicate that changes are necessary.

**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 General College before permission is granted to enter such curricula.

**For Applied Music Courses**

On each registration day, applied music 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**

Auditions for ensemble courses will be held at stated times during registration. Students who expect to register for the first time in any of these organizations must appear at one of the hours designated for an audition. Auditions for band (Music 4250, 4251, 4252, 4253) are normally held during the regular semester preceding the semester in which the student wishes to participate. However, students may also audition during the registration period of the performance semester. For details, contact the Director of Bands.
CORRESPONDENCE AND EXTENSION CREDITS

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken in correspondence and/or extension courses. Acceptance of such work is contingent upon its applicability to the student’s curriculum. Therefore, students should obtain approval from the dean of the School of Music before registering for correspondence or extension courses.

Correspondence study in theory and 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.

Faculty and Curricula

DEAN: Merriman, Professor
ALUMNI PROFESSOR: Redding
PROFESSORS: Abel, Brys, Constantinides, Dirksmeyer, Edmunds, Foss, Guerry, Hallman, Harrison,
Knowles, McKenzie, Norem, Patterson, Shambaugh
ASSOCIATE PROFESSORS: Aslanian, Astraquillo, Campbell, Dickey, Klimash, O'Reilly, Riley, Sher,
Timm, Walter, Wickes, Yestead
ASSISTANT PROFESSORS: Brown, Cline, Cutrer, Davidson, Figg, Kosmala, Kungle, Laib, Raush,
Saxon, Speck, Spillman, Wattam, West

All students in a B.M. curriculum must participate in band (4250, 4251, 4252), orchestra (4261), or chorus (4234, 4236, 4240) for four years. Large ensemble assignments are made at the discretion of the adviser and the ensemble conductors. Any requests for adjustment of the rules pertaining to performance in large ensembles must be submitted to a reviewing committee.

Students are not charged for private lessons or for use of school-owned instruments, lockers, equipment, or practice rooms.

Electives in the freshman and sophomore years may include six semester hours of basic ROTC.

CURRICULUM IN BRASS MAJOR—MULTIPLE BRASS MINOR

TOTAL SEM. HRS.: 134

Students in this curriculum will study four years on a major instrument. They will select a chief minor brass instrument to study for two years, and two different rotating minors. The minor instrument should be played in public during the final year it is studied. Piano proficiency at the level of music 1106 or equivalent is required.
### FRESHMAN YEAR

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<td>Music 1700</td>
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<td>Music 1701, 1702</td>
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<tr>
<td>Applied music (major) courses</td>
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<tr>
<td>Large ensemble courses</td>
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<tr>
<td>Nonmusic electives</td>
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<td>Electives</td>
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<tr>
<td><strong>Total</strong></td>
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### SOPHOMORE YEAR

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### JUNIOR YEAR

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<td>Music 3711, 3771-3772</td>
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<tr>
<td>Applied music (major) courses</td>
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<td>Applied music (minor) courses</td>
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<td>Applied music (minor) courses</td>
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<tr>
<td>Large ensemble courses</td>
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<tr>
<td>English elective above 2000</td>
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<tr>
<td>Theory electives (Music 4712, 4719, 4720, 4730, 4732)</td>
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<td>Nonmusic electives</td>
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### SENIOR YEAR

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<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 4703, 4751, 4752, 4797</td>
<td>9</td>
</tr>
<tr>
<td>Music 4721-4722; or Music 4723 and 3 sem. hrs. of approved theory electives, including also Music 4724 and 4731</td>
<td>6</td>
</tr>
<tr>
<td>Applied music (major) courses</td>
<td>6</td>
</tr>
<tr>
<td>Large ensemble courses</td>
<td>2</td>
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<tr>
<td>Nonmusic electives</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

### CURRICULUM IN COMPOSITION

**TOTAL SEM. HRS.: 130**

Piano proficiency, as determined by the composition faculty, and participation in the Composer's Forum are required of all composition students. Electives in such areas as computer science, acoustics, and aesthetics are recommended.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 1701, 1702, 1742</td>
<td>11</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>3</td>
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<td>Large ensemble courses</td>
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<tr>
<td>Nonmusic electives</td>
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<td>Electives</td>
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### SOPHOMORE YEAR

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<thead>
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</thead>
<tbody>
<tr>
<td>Music 1700</td>
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</tr>
<tr>
<td>Music 1753, 1754, 2711, 2712</td>
<td>18</td>
</tr>
<tr>
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<tr>
<td>Large ensemble courses</td>
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<tr>
<td>Nonmusic electives</td>
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<td>Electives</td>
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### JUNIOR YEAR

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</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 3711, 3771, 4730, 4731</td>
<td>11</td>
</tr>
<tr>
<td>Music 3741 (taken twice)</td>
<td>6</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>3</td>
</tr>
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<td>Large ensemble courses</td>
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<tr>
<td>Nonmusic electives</td>
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<td>Electives</td>
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<tr>
<td><strong>Total</strong></td>
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### SENIOR YEAR

<table>
<thead>
<tr>
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<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 4703, 4751, 4752, 4798</td>
<td>8</td>
</tr>
<tr>
<td>Music 3741 (taken twice)</td>
<td>6</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>3</td>
</tr>
<tr>
<td>Large ensemble courses</td>
<td>2</td>
</tr>
<tr>
<td>Theory electives (Music 4712, 4719, 4721-4722, 4723, 4724)</td>
<td>6</td>
</tr>
<tr>
<td>Electives</td>
<td>8</td>
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<tr>
<td><strong>Total</strong></td>
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</table>

### CURRICULUM IN INSTRUMENTAL MAJOR (EXCLUDING KEYBOARD INSTRUMENTS)

**TOTAL SEM. HRS.: 129**

Piano proficiency at the level of Music 1106 or equivalent is required.

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
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<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 1701, 1702</td>
<td>8</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
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<tr>
<td>Large ensemble courses</td>
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<tr>
<td>Nonmusic electives</td>
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<td>Electives</td>
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<tr>
<td><strong>Total</strong></td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Music 1700</td>
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</tr>
<tr>
<td>Music 1753, 1754, 2711, 2712</td>
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</tr>
<tr>
<td>Applied music courses</td>
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</tr>
<tr>
<td>Large ensemble courses</td>
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<tr>
<td>English electives above 2000</td>
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<tr>
<td>Electives</td>
<td>6</td>
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<tr>
<td><strong>Total</strong></td>
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### JUNIOR YEAR

<table>
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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 3711, 3771</td>
<td>5</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
</tr>
<tr>
<td>Large ensemble courses</td>
<td>2</td>
</tr>
<tr>
<td>Theory electives (Music 4712, 4719, 4720, 4730, 4732)</td>
<td>3</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>8</td>
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<tr>
<td>Electives</td>
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<tr>
<td><strong>Total</strong></td>
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### SENIOR YEAR

<table>
<thead>
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</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 4721-4722, or Music 4723 and 3 sem. hrs. of approved theory electives, including also Music 4724 and 4731</td>
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</tr>
<tr>
<td>Music 4751, 4752, 4797</td>
<td>7</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
</tr>
<tr>
<td>Large ensemble courses</td>
<td>2</td>
</tr>
<tr>
<td>Nonmusic electives</td>
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<tr>
<td>Electives</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tr>
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</table>

### CURRICULUM IN ORGAN

**TOTAL SEM. HRS.: 129**

**Piano proficiency at the level of Music 1106 or equivalent is required.**

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
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<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 3711, 3757-3758, 3771</td>
<td>11</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
</tr>
<tr>
<td>Large ensemble courses</td>
<td>2</td>
</tr>
<tr>
<td>Theory electives (Music 4712, 4719, 4720, 4730, 4732)</td>
<td>3</td>
</tr>
<tr>
<td>Nonmusic electives</td>
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<td>Electives</td>
<td>7</td>
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<tr>
<td><strong>Total</strong></td>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 1753, 1754, 2711, 2712</td>
<td>12</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
</tr>
<tr>
<td>Large ensemble courses</td>
<td>2</td>
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<tr>
<td>English electives above 2000</td>
<td>6</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 3711, 3771</td>
<td>5</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
</tr>
<tr>
<td>Large ensemble courses</td>
<td>2</td>
</tr>
<tr>
<td>Theory electives (Music 4712, 4719, 4720, 4730, 4732)</td>
<td>3</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>3</td>
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<tr>
<td>Electives</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

### CURRICULUM IN PIANO PERFORMANCE/STUDIO TEACHING PIANO

**TOTAL SEM. HRS.: 130**

*In addition to the senior recital, piano performance majors are required to perform solos in at least four student recital programs or their equivalent throughout the period of undergraduate study. A junior recital may be elected in lieu of two such appearances with the approval of the major professor.*

*Piano majors in studio teaching are required to perform solos in at least two student recital programs or their equivalent throughout the period of undergraduate study in addition to the senior recital. The senior recital may be a joint recital or its equivalent.*

*All piano majors are required to demonstrate proficiency in sight reading by the end of the fourth semester of study. Electives are to include courses in piano literature and pedagogy.*

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Music 1701, 1702</td>
<td>8</td>
</tr>
<tr>
<td>Music 1700</td>
<td>0</td>
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<tr>
<td>Applied music courses</td>
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<tr>
<td>Large ensemble courses</td>
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<tr>
<td>Nonmusic electives</td>
<td>8</td>
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<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>33</strong></td>
</tr>
</tbody>
</table>

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 1753, 1754, 2711, 2712</td>
<td>12</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
</tr>
<tr>
<td>Large ensemble or accompanying courses</td>
<td>2</td>
</tr>
<tr>
<td>English electives above 2000</td>
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<tr>
<td>Nonmusic electives</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>
### CURRICULUM IN SACRED MUSIC (WITH OPTIONS)

**TOTAL SEM. HRS.: 131**

*Voice majors must satisfy piano proficiency at the Music 1106 level and complete two semesters of applied organ (Music 3133). Organ majors must complete two semesters of applied voice (Music 3130). It is recommended that electives include one or more of the following: Music 3018, 4730, 4788, 4789, 4790, and Speech 4152, 4153.*

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
<th>SOPHOMORE YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 1700</td>
<td>0</td>
<td>Music 2711, 2712</td>
<td>8</td>
</tr>
<tr>
<td>Music 1701, 1702, 1753, 1754</td>
<td>12</td>
<td>Religious Studies 2028</td>
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</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
<td>Applied music courses</td>
<td>6</td>
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<td>Large ensemble courses</td>
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<td>Large ensemble courses</td>
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</tr>
<tr>
<td>Nonmusic electives</td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
<th>SENIOR YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 1700</td>
<td>0</td>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 3711, 3748</td>
<td>5</td>
<td>Music 4721, 4752, 4755, 4756, 4797</td>
<td>13</td>
</tr>
<tr>
<td>Religious Studies 2027 or 2029</td>
<td>3</td>
<td>Applied music courses</td>
<td>6</td>
</tr>
<tr>
<td>Foreign language courses</td>
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</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
<td>Organ majors: Music 4701-4702 and 5 sem.</td>
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</tr>
<tr>
<td>Large ensemble</td>
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<td>hrs. of electives; voice majors: electives</td>
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</tr>
<tr>
<td>Organ majors: Music 3757-3758; voice majors: Music 3757 and 3 sem. hrs. of electives</td>
<td>6</td>
<td></td>
<td>30</td>
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</tr>
</tbody>
</table>

**CURRICULUM IN STRING MAJOR—MULTIPLE STRINGS MINOR**

**TOTAL SEM. HRS.: 132**

*Students in this curriculum will study one major stringed instrument for four years. They will select a minor stringed instrument to study for two years, and will rotate study of the other two stringed instruments with one year of study each. Piano proficiency at the level of Music 1106 or equivalent is required.*
# School of Music

## CURRICULUM IN VOICE

**TOTAL SEM. HRS.: 129**

Two semesters or equivalent of applied piano are required.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Music 1018-1019, 1701, 1702</td>
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<tr>
<td>Music 1700</td>
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</tr>
<tr>
<td>Applied music (major) courses</td>
<td>6</td>
</tr>
<tr>
<td>Applied music (minor) courses</td>
<td>3</td>
</tr>
<tr>
<td>Large ensemble courses</td>
<td>2</td>
</tr>
<tr>
<td>Nonmusic electives</td>
<td>6</td>
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<tr>
<td>Electives</td>
<td>5</td>
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<table>
<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Foreign language courses</td>
<td>10</td>
</tr>
<tr>
<td>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 3711, 3751, 3752, 3771, 3772</td>
<td>12</td>
</tr>
<tr>
<td>Applied music courses</td>
<td>6</td>
</tr>
<tr>
<td>Large ensemble courses</td>
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<tr>
<td>Electives</td>
<td>3</td>
</tr>
<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>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 1753, 1754, 2711, 2712</td>
<td>12</td>
</tr>
<tr>
<td>Applied music (major) courses</td>
<td>6</td>
</tr>
<tr>
<td>Applied music (minor) courses</td>
<td>3</td>
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<tr>
<td>Large ensemble courses</td>
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<tr>
<td>English electives above 2000</td>
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<tr>
<td>Nonmusic electives</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
<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>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 4721-4722, or Music 4723 and 3 sem. hrs. of approved theory electives, including also Music 4724 and 4731</td>
<td>6</td>
</tr>
<tr>
<td>Music 4751, 4752, 4797</td>
<td>7</td>
</tr>
<tr>
<td>Applied music (major) courses</td>
<td>6</td>
</tr>
<tr>
<td>Applied music (minor) courses</td>
<td>3</td>
</tr>
<tr>
<td>Large ensemble courses</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>8</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>32</td>
</tr>
</tbody>
</table>

## CURRICULUM IN WOODWIND MAJOR—MULTIPLE WOODWIND MINOR

**TOTAL SEM. HRS.: 134**

Piano proficiency at the level of Music 1106 or equivalent is required. Applied music study is to include a minimum of eight semesters on a major instrument, and four semesters on each of three minor instruments.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>English 1001, 1002</td>
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<tr>
<td>Music 1700</td>
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</tr>
<tr>
<td>Music 1701, 1702</td>
<td>8</td>
</tr>
<tr>
<td>Applied music (major) courses</td>
<td>6</td>
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<tr>
<td>Large ensemble courses</td>
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<tr>
<td>Nonmusic electives</td>
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<td>Electives</td>
<td>4</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>Music 1700</td>
<td>0</td>
</tr>
<tr>
<td>Music 1753, 1754, 2711, 2712</td>
<td>12</td>
</tr>
<tr>
<td>Applied music (major) courses</td>
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<tr>
<td><strong>TOTAL</strong></td>
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</tbody>
</table>
Curriculum in Music Therapy

LSU has a program in music therapy coordinated with Loyola University in New Orleans. Contact the dean of the LSU School of Music for information.

Music Curricula Outside the School of Music

The College of Education offers the Bachelor of Music Education degree with a major in music education and concentration in instrumental music or vocal music. Students interested in music education should refer to these curricula in the “College of Education” section of this catalog.

The College of Arts and Sciences offers the Bachelor of Arts degree with a major in music and concentration in music history and literature, theory, or performance. See the “College of Arts and Sciences” section of this catalog for requirements for this degree.
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. Participation in the program 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. Additionally, Air Force ROTC scholarship cadets are required to complete the equivalent of one semester in a major Indo-European or Asian language. Courses for both of these departments are listed in the section of this catalog entitled “Courses of Instruction.”

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.

ARMY SIMULTANEOUS MEMBERSHIP PROGRAM

This program combines service in the Army National Guard or U.S. Army Reserve with enrollment in an ROTC program. Students who qualify join the appropriate military unit as officer trainees and attend Army basic training. They can then enroll in the advanced Army ROTC program at LSU. ROTC instruction and training with the appropriate military unit one weekend per month and two weeks in summer are required. Students enrolled in this program will receive $100 monthly for the ROTC program plus the equivalent of a sergeant's pay for the monthly drill attendance and annual training. At the end of the advanced ROTC course, they will apply for commissions in the Army National Guard or the Army Reserve.

THE NAVAL RESERVE OFFICERS TRAINING CORPS

Through a cross-enrollment agreement between LSU and Southern University, LSU students are eligible to enroll in the Naval Reserve Officers Training Corps leading to a commission in the U.S. Navy or Marine Corps. Openings are available in the 4-, 3-, or 2-year programs. Navy ROTC is open to male and female students, and many naval science courses are taught on the LSU campus. There is no additional cost to LSU students to cross-enroll in the NROTC program. Students incur no obligation while participating in the freshman and sophomore years. NROTC scholarship appointments are available to college program students demonstrating satisfactory academic performance and aptitude for commissioned service. Further details may be obtained from the Professor of Naval Science/Commanding Officer, NROTC Unit, Southern University, Baton Rouge, Louisiana 70813, telephone (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. 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.

Listing of a course does not necessarily mean that it will be offered this year. Some departments indicate in the course description the semester in which a course is usually offered. This information appears in bold type immediately after the course credit. The following legend is used: F = fall, S = spring, Su = summer, V = course offered irregularly, E = course offered even-numbered years, O = course offered odd-numbered years. If no information is given, students should contact the department to determine when the course is to be offered.

The phrases "also offered as . . . ," "see . . . ," or "same as . . . " which appear in some course descriptions, refer to honors courses or to courses that are available through more than one department. In each of these instances, only one of the courses may be taken for credit.
Since this catalog was prepared well in advance of its effective date, some courses may have been added, others may have been dropped, and additional approved changes in content may have been made.

COURSE NUMBERING SYSTEM

An explanation of the first digit of the four-digit course numbering system follows. The meaning of the second, third, and fourth digits varies by department. See "Year Classification of Students" in the "University Regulations" section for an explanation of the criteria for classification as a freshman, sophomore, etc.

0001-0999: Offered by the University to permit students to make up deficiencies in previous training or to improve their facility in certain basic skills; not for degree credit.

1000-1999: For undergraduate students, primarily freshmen; for undergraduate credit only. Ordinarily open to all students; in some instances upper-division students may not take these courses for degree credit.

2000-2999: For undergraduate students, sophomore level or above; for undergraduate credit only. Also open to certain freshmen (see "Eligibility to Enroll in Courses Numbered Above 1999") and to part-time beginning students in the Division of General Studies and Community Education.

3000-3999: For advanced undergraduate students, junior- and senior-level; for undergraduate credit only. These courses constitute the advanced portion of an undergraduate program leading to the bachelor's degree.

4000-4999: For advanced undergraduate students (those who have completed a minimum of 60 semester hours), and for students in graduate and professional schools and colleges; for undergraduate or graduate credit.

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: Exclusively for teachers at the elementary, secondary, and junior college levels.

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

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<td>Nuclear Science (Center)</td>
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</table>

Note: The abbreviations listed are the standard abbreviations used for each department or program.
### DESIGNATION | ABBREVIATION | ADMINISTERING DEPARTMENT
--- | --- | ---
Petroleum Engineering | PETE | Petroleum Engineering
Philosophy | PHIL | Philosophy
Physical Science | PHSC | Physics & Astronomy
Physics | PHYS | Physics & Astronomy
Plant Pathology | PLPA | Plant Pathology & Crop Physiology
Political Science | POLI | Political Science
Portuguese | PORT | Spanish & Portuguese
Poultry Science | PLSC | Poultry Science
Psychology | PSYC | Psychology
Quantitative Business Analysis | QBA | Quantitative Business Analysis
Religious Studies | REL | Philosophy
Russian | RUSS | Classical, Germanic, & Slavic Languages
Social Welfare | SW | Social Welfare (School of)
Sociology | SOCL | Sociology
Spanish | SPAN | Spanish & Portuguese
Speech | SPCH | Speech
University | UNIV | Academic Affairs (Office of)
Veterinary Anatomy | VAN | Veterinary Anatomy & Fine Structure
Veterinary Medicine | VMED | Veterinary Medicine (School of)
Veterinary Microbiology & Parasitology | VMP | Veterinary Microbiology & Parasitology
Veterinary Pathology | VP | Veterinary Pathology
Veterinary Physiology, Pharmacology, & Toxicology | VPT | Veterinary Physiology, Pharmacology, & Toxicology
Veterinary Science | VETS | Veterinary Science
Vocational Agricultural Education | VAED | Vocational Agricultural Education
Vocational Education | VOED | Vocational Education (School of)
Vocational Home Economics Education | VHEE | Vocational Home Economics Education
Vocational Trade & Industrial Education | VTIE | Industrial & Technical Education
Wildlife | WILD | Forestry & Wildlife Management (School of)
Zoology | ZOOL | Zoology & Physiology

### KEY TO COURSE INFORMATION

**ACCT** .... Course designation  
2001 .... Course number  
(3) .... Course credit  
F .... Course offered fall  
S .... Course offered spring  
Su .... Course offered summer  
V .... Course offered irregularly  
E .... Course offered even-numbered years  
O .... Course offered odd-numbered years

### ACADEMIC ORIENTATION (ACOR)

**0001 Freshman Orientation (O)** For new students with less than 12 sem. hrs. of college credit. Meets only twice during the semester. 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.

### 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 I (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 for central concerns 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.

3021 Intermediate Accounting—Part II (3) Prereq: grade of "C" or above in ACCT 2011. Continuation of ACCT 2021; preparation and analysis of comparative statements, cashflow and funds statements, preparation of financial statements from incomplete data, and correction of statements.

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 2001. 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 inclusions 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. 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; extensive use of CPA-type theory questions and problems.


4232 Advanced Auditing (3) Prereq: ACCT 3222. Auditing 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.

4501 Petroleum Accounting (3) Prereq: ACCT 3021 and 3121. Accounting for oil and gas exploration and production; accounting for oil and gas leases, exploration costs, undeveloped properties, drilling and development operations, production, oil and gas revenues; current issues in petroleum accounting.

5001 Financial Accounting for Management (3) Primarily for M.B.A. students; not open to accounting majors. Comprehensive 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 trends for the future.

7070 Contemporary Accounting Thought (3) Prereq: ACCT 7021.

7071 Current Topics in Financial Accounting (3) Prereq: ACCT 7021. May be taken twice for credit. 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.
2000 Survey of Education in the United States (3) F,S,Su Not open to education majors. Credit will not be given for both this course and EDCI 1000. Historical, sociological, philosophical, psychological, and cultural development of the American educational enterprise.

3200 Evaluation of Instruction (3) F,S,Sa Prereq: credit or registration in a methods course appropriate to the student's teaching level or major or minor. Principles and techniques in development, administration, scoring, and evaluation of classroom and standardized tests.

3500 Utilization of Instructional Materials (3) F,S,Sa Basic techniques of preparing effective instructional materials.

3525 Selection of Educational Media (2) F,S,Sa 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. Practical application of instructional materials and technology to the teaching-learning process.

3550 Books and Audio-Visual Materials for Young Adult Resource Centers (3) F Selection and evaluation of printed and audio-visual materials in relation to the needs and interests of the adolescent; emphasis on the secondary school curriculum.


3552 Cataloging and Classification (3) F,S Basic principles of acquisition, organization, cataloging and classification, processing, and circulation of book and nonbook materials; the Dewey Decimal Classification, Sears Subject Headings, and AACR II.

3553 Administration of School Media Centers (3) S Role of the school media center as related to the curriculum; philosophy and objectives; services to students and faculty; standards and procedures for selection of all media.

3554 Libraries and Librarianship (3) F,S Libraries and librarianship; origin, services, importance in contemporary social order, and present-day professional library problems.

3555 Libraries as Information Centers (3) F Basic bibliographic reference sources; their selection, evaluation, and use in school media centers; community and special services.

4000 History of Education (3) F,S,Sa Development of formal and informal education in multicultural settings from earliest times to the 20th century.

4001 History of American Education (3) F,S,Sa Cultural diversity and the response of educational thought and practice in America from colonial times to the present.

4002 Survey of Philosophy of Education (3) F,S,Sa Key theories of human nature, culture, and society and their bearings on the educational enterprise.
4200 Measurement and Evaluation of Student Achievement (3) F,S,Su Basic theory of educational measurement, principles of achievement, test construction including criterion-referenced measures, problems of measurement in subcultures, and principles of evaluation.

4249 Understanding and Applying Research in Education (3) For the master's degree and specialist student who will not write a thesis. Instructing teachers and administrators to become intelligent consumers of research.

4400 School Administration (3) F,S,Su Theories and economic, political, social, and cultural forces that affect the administration of the American public schools.

4501 Selection and Utilization of Educational Media (3) Introduction to the field of instructional technology; characteristics of media, objective specifications, and evaluation of instructional modules and systems.

5880 Special Topics in Education (1-3) V Prereq: consent of instructor. May be repeated for credit for a maximum of 9 sem. hrs. Provides the practitioner with direction and assistance in solving special or unique problems in the school organization.

7000 Seminar in Philosophy of Education (3) Su Prereq: EDAF 4002. Theories of education and schooling with special focus on the context of pluralistic societies as applied to students' areas of interest.

7200 Seminar in Educational Measurement (3) V 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) F,Su Prereq: EDAF 4501 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 instructional problems, with attention to media.

7241 Educational Research (3) F Prereq: credit or concurrent registration in EDAF 7280 and in either EDAF 4200 or 7200. Primarily for beginning doctoral students. Process and methods of research in education.

7242 Experimental Designs in Education (3) Su Prereq: EDAF 7241 or equivalent. Choosing statistical techniques and experimental designs most appropriate for solving specific problems; emphasis on multivariate analysis, multiple regression, and factor analysis.

7248 Research Practicum (3) V By arrangement with a local school system or other educational agency, students assist in the conduct of research under the supervision of the major professor and the cooperating agency.

7280 Statistical Methods in Education (3) F Basic descriptive and inferential procedures in research.

7281 Advanced Educational Statistics (3) S Prereq: EDAF 7280. Certain advanced statistical procedures; emphasis on interpreting relationships and differences in research.

7400 Problems of Educational Finance (3) F,Su Financing of public elementary and secondary schools in terms of federal, state, and local sources of revenue, tax structures, budget preparation, and cost analysis.

7401 Administration of School Personnel (3) S,Su Role of the school administrator in personnel planning, staff development, and employee relationships.

7402 Theories and Practices in School Administration (3) V Prereq: EDAF 4400, 7403, and 7450; or equivalents. Current theories and concepts of organization and their application to educational administration.

7403 The Principalship in Elementary and Secondary Schools (3) F,S,Su Prereq: EDAF 4400 or equivalent. Duties and responsibilities of the principal for organization, administration, and supervision of elementary and secondary schools.

7404-7405 Problems in the Organization and Administration of Education (2-4,2-4) F,S,Su 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) V Prereq: EDAF 4400 and 7450; or equivalents. The roles and functions of the supervisor of child welfare and attendance examined through seminars, field study, and individual research; includes legal provisions, history, and philosophy.

7420 Administering Educational Media Programs (3) F,S,Su Prereq: EDAF 4501 or equivalent; and consent of instructor. Primarily for personnel administering media centers. Budget preparation, purchase of equipment and materials, in-service training, program evaluation.

7450 Supervision of Instruction in Elementary and Secondary Schools (3) F,S,Su Theories, principles, and practices concerning the role of the supervisor in today's multicultural school settings.

7451 The Supervision of Student Teaching (3) F,S,Su Principles of planning, observing, and evaluating student teaching; participation in student conferences.


7503 Instructional Design and Development (3) S,Su Prereq: EDAF 4501. Development of skills in applying principles of instructional systems to teaching and learning problems.

7504 Photography in Education (3) S,Su Prereq: EDAF 4501. 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 Education (3) S Open only to students who have completed qualifying examination for the doctoral degree. Current issues and trends, including sources, bibliography, and research in the student's major.

7812 Seminar and Practicum in Educational Media (6) F,S,Su Prereq: EDAF 4501, 7420, and 7502. Teaching, production, utilization, and administration of educational media; readings, discussion, and analysis of advanced topics in instructional technology.

7840 Educational Facility Planning (3) F,S,Su For school administrators. Problems in school construction.

7870 School Law (3) F,S,Su 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.)
AEROSPACE STUDIES (ASST)

1001, 1002 Aerospace Studies—U.S. Military Forces in the Contemporary World (1,1) F,S 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) V Prerequisite for completion of the Air Force ROTC flying program for cadets, but open to any student. 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.

2003, 2004 Development of Air Power (2,2) F,S 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.

3001-3002 Air Force Management and Leadership (3,3) F,S 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) F,S 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.

AGRICULTURAL ECONOMICS (AGEC)

1098 Studies in the Operation of Agricultural Business (3) F Organization, management, and operation of agricultural businesses.

2075 Introductory Agricultural Economics (3) F,S Role of agriculture in the general economy; economic principles applied to agricultural production, marketing, consumption, and policy problems.

2077 Principles of Agricultural Marketing (3) S Agribusiness marketing channels, institutions, costs, problems, agencies, policies.

4001 Farm Records and Accounts (3) F 2 hrs. lecture; 2 hrs. lab. Accounting procedures 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.

4015 Farm Management Principles (3) F,Su Fundamental economic and business principles applied to organization and operation of the farm business.

4016 Farm Organization and Management (4) S 2 hrs. lecture; 4 hrs. lab, including 6 hr. farm field trip. Intensive farm planning; case study of management on individual farms to maximize income.

4018. Agricultural Statistics (3-4) F,Su 3 hrs. lecture; 2 hrs. lab. Statistical methods and techniques essential for economic analysis and interpretation of data.

4020 Cooperation in Agriculture (3) S Development, management, and related problems of cooperative agribusinesses.

4024 Agricultural Prices (3) S-E Methods of collection and analysis of price data, including relationships between agricultural and industrial prices.

4038 Problems and Decision Making in Agribusiness Firms (3) F-E For students planning careers in agricultural business. Identification, definition, and analysis of typical problems in agricultural business firms, emphasizing problems peculiar to such firms.

4051 Economics of Marketing Livestock, Meats, and Poultry Products (3) F Market structure and organization, pricing, trends, supply and demand, price and income elasticity, efficiency, and costs.

4052 Marketing Milk and Milk Products (3) S Market channels, characteristics, institutions, and government regulations involved in pricing and marketing of milk.

4053 Seminar in Tropical Agricultural Resource Development (1) S Economics of tropical agricultural development; opportunities for developing world trade in tropical agricultural products; potentials for improving agricultural economics and standards of living in areas dependent primarily on production of tropical agricultural products.

4060 Schedule Design and Interview Techniques (1) F Sources of data, questionnaire construction, and survey technique.

4064 Design of Samples and Surveys (3) S-O Prereq: AGEC 4018 or equivalent. Sampling theory and methods; application to related fields in social sciences and agriculture.

4067 Farm and Rural Land Appraisal (2) S Fundamentals of farm appraisal; basic techniques for determining agricultural and rural land values; practice in appraising farms and rural lands representing major farming regions of Louisiana.

4077 Research Problems (3) Independent research culminating in an oral and written research report acceptable to a faculty committee.

4082 Agricultural Finance (3) S Capital and credit needs of farms and other agribusinesses; sources of funds, costs, terms, and risks involved in use of agricultural credit.

4084 The Economics of Resource, Rural, and Community Development (3) S Characteristics of underdeveloped areas; analysis of economic and related problems and potential for development, with emphasis on the southern states.

4088 Agricultural Policy, Farm Programs, and World Food- Population Problems (3) F Analysis of policies, legislation, and programs; world food-population balance, domestic and world food supplies, demand, prices, and related problems.

4092 Applied Programming Procedures in Agriculture (3) F-E Application of linear, dynamic, recursive, and other programming procedures to economic problems in agricultural production, marketing, and resource use.
Agricultural Engineering (AGE)

1248 Production Machinery in Agriculture (2) Engineering features of production machines; machine combinations, construction, power requirements, performance efficiencies, and capacity.

2307 Elements of Landscape Construction (3) Prereq: MATH 1015 or 1022. 2 hrs. lecture; 3 hrs. lab. Theory and use of tape, level, transit, plane table, and compass; principles of area and volume calculations, land slope, drainage grades, legal land descriptions, and topographic mapping.

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.

3104 Proseminar (1)

3249-3250 Engineering Practice (1-3, 1-3) SU only Prereq: consent of instructor. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participating in the summer program. Same as ENGR 3049-3050. Selected engineering problems in an industrial environment.

3352 Agricultural Structures Design (3) Prereq: CE 2450 and 3405. Structural design for light structures; design with wood, plywood, concrete, and steel; frames and storage bins; plans, codes, and load estimation.

3374 Soil and Water Resource Engineering (3) Prereq: CE 1510 and 1550, and credit or registration in CE 2200. Engineering analysis and design of soil and water systems in agriculture.

3989 Special Projects in Agricultural Engineering (1-4) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. Library research, experimental and/or the theoretical investigations, and written report in format of scientific manuscript.

4274 Irrigation and Drainage Engineering (2) Prereq: AGE 3374. Engineering analysis and design of irrigation and drainage systems.

4293 Electrical Energy in Agricultural Systems (2) Prereq: EE 2930. 1 hr. lecture; 3 hrs. lab. Application of electrical energy to agricultural processes and systems; design of farmstead and other electrical systems to include lighting, heating, electric machines, and control circuits.

4305 Crop Processing (3) Prereq: ME 2333 or 3333. 2 hrs. lecture; 3 hrs. lab. Theoretical and practical considerations of processing forage crops and small grains, flow measurement, heat transfer, air moisture, temperature, vapor pressure relationships, fans, drying, material handling, manual and automatic controls, and plant layout.

4306 Farm Machinery Design (3) Prereq: credit or registration in CE 3405. 2 hrs. lecture; 3 hrs. lab. Design and testing of machine components used in agricultural machinery, including theoretical and laboratory application of strain gauges.

4354 Environmental Engineering for Animals and Plants (3) Prereq: ME 2333 or 3333. Basic environmental factors and their modification for optimizing animal and plant growth.

4397 Instrumentation for Biological Engineering (3) Prereq: MATH 2057 and PHYS 2102, or senior standing, or consent of instructor. Principles of measurement for engineering research; emphasis on instrument methods for indicating, recording, or controlling temperature, pressure, and flow; instruments for composition analysis and mechanical measurements.


7302 Environmental Engineering for Plants and Animals (3) Prereq: AGE 4354. Properties and components of the physical environment, conditioning necessary to provide a selected environment, and physiological systems affected when altering the environment of biological materials.

7303 Engineering Phases of Crop Processing (3) Prereq: AGE 4305 or equivalent. Physical properties of agricultural crops; engineering principles as they apply to cutting, shearing, collecting, packaging, transporting, drying, handling, and storing of agricultural products.
Agricultural Engineering

7304 Advanced Soil and Water Resource Engineering (3) Prereq: AGE 4274 or equivalent. Advanced topics in statistical hydrology, flow theory, drainage, irrigation, erosion, sediment transport, and sedimentation applied to agricultural fields and watersheds.

7305 Advanced Power and Machinery (3) Prereq: AGE 2369 and 4306. Theoretical analysis of modern mechanical power sources; methods of measurement and analysis of power requirements; related theory of land locomotion.

Agricultural Mechanization (AGM)

2050 Farm Structures (2) Planning of farm buildings, fences, and farmstead arrangement; functional and environmental requirements of animals, machinery, and product storage.

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.

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.

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.

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.

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.

3082 Electrification (3) 2 hrs. lecture; 2 hrs. lab. Farm electrical distribution system; selection, operation, and use of electrically powered farm and home equipment.

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.

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.

4350 Mechanical Hydraulics (3) 2 hrs. lecture; 2 hrs. lab. Fundamentals of hydraulics in mechanical equipment; hydraulic circuits, pumps, controls, and actuators; analysis of hydraulic circuits to determine mechanical and volumetric efficiencies and energy losses.

4981 Agricultural Mechanization Special Topics (3)

Agriculture (AGRI)

1001 Introduction to Agriculture (1) All fields of agriculture; emphasis on opportunities and educational requirements.

Agronomy (AGRO)

1021 Crop Science (3) 2 hrs. lecture; 2 hrs. lab. Basic principles of crop production.

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.

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.

3003 Grain Crops (3) 2 hrs. lecture; 2 hrs. lab. Soybeans, corn, rice, oats, and other cereal crops.

3040 Soil Conservation (2) Causes and effects of soil erosion and sedimentation; methods of reducing erosion, sedimentation, and runoff.

4005 Forage Crops and Pasture Management (4) 3 hrs. lecture; 2 hrs. lab. Forage crops— their adaptation, production, establishment, utilization, and management in pastures.

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.

4008 Sugarcane (3) 2 hrs. lecture; 2 hrs. lab. Sugarcane and its production, particularly in Louisiana.

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.

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.

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.
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.

4061 Rice Production (3) 2 hrs. lecture; 2 hrs. lab. Cultural and management practices in rice production.

4063 Field-Plot Technique (4) 3 hrs. lecture; 2 hrs. lab. Also offered as EXST 4063. Planning, conducting, and interpreting field experiments.

4064 Principles of Plant Breeding (4) S Prereq: AGRI 2072 and AGRO 4063; or equivalents. 3 hrs. lecture; 2 hrs. lab. Basic principles of breeding crop plants; application of biometric principles to interpretation of genetic data.

4078 Land Use Planning and Land Management (3) S-F Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Land use planning and land management based on chemical, mineralogical, and physical properties of soils; includes soils, plants, data bases, hydrology, and remote sensing; areas of use and management include crops, pasture, forest and woodland, metropolitan, transportation, waste disposal, wetlands, and disturbed lands.

4091 Special Topics in Crop Science (1-3) Prereq: consent of department. May be repeated for credit for a maximum of 6 sem. hrs.

4092 Special Topics in Soil Science (1-3) Prereq: consent of department. May be repeated for credit for a maximum of 6 sem. hrs.

7001 Agronomy Seminar (1) May be repeated for credit. 1 hr. seminar; reports.

7020 Application of Cytogenetics to the Improvement of Crop Plants (4) See HORT 7020.

7051 Advanced Soil Fertility (3) Theory and current literature on the relation of soil factors to growth of crop plants.

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.

7055 Advanced Soil Chemistry (3) F-O Prereq: AGRO 4055, MATH 1552, and one semester of physical chemistry. Theory of physicochemical properties of soils; emphasis on soil solution chemistry.

7056 Advanced Soil Microbiology (2) F-O Prereq: AGRO 4056. Soil ecosystems analyses; microbiology of peats, root surfaces, and symbiotic nitrogen fixation.

7057 Advanced Soil Physics (4) 3 hrs. lecture; 2 hrs. lab. Physicochemical properties of soil colloids; soil structure, moisture, and aeration.

7060 Soil Organic Matter (2) F-E Prereq: consent of instructor. Organic fraction of soils; emphasis on chemical composition.

7064 Advanced Plant Breeding (3) F Prereq: AGRO 4064 or equivalent. Plant breeding techniques, heritability, male sterility, and incompatibility systems.

7066 Agronomic Crop Breeding Techniques (2) S Prereq: AGRO 7064 or equivalent. 4 hrs. lab. Practical experience in artificial hybridization techniques; special and commonly used selection procedures for the major agronomic crops.

7074 Quantitative Genetics (3) S Prereq: AGRO 7064 or equivalent. Genotypic and environmental values, their effects and interactions; phenotypic variances and covariances; heritability and genetic advance; homeostasis and combining ability as related to plants.

7165 Chemistry and Microbiology of Flooded Soils and Sediments (3) Same as MRSC 7165. Chemical and microbiological changes in fresh water, brackish water, and estuarine-flooded soils and sediments affecting availability of nutrients and growth of plants.

8000 Thesis Research (1-9 per sem.)

8901 Research in Crop Science (3-6) Prereq: consent of department.

8902 Research in Soil Science (3-6) Prereq: consent of department.

9000 Dissertation Research (1-9 per sem.)

ALLIED HEALTH (ALLH)

Students registering for Allied Health 3258 must make indemnifying deposits. Instructions and forms for making deposits will be provided at the first meeting of the laboratory. Any student unable to show a receipt for a deposit by the end of the second class period will not be permitted to continue in the course.

MEDICAL TECHNOLOGY

2155 Morphologic Hematology (3) F-S Prereq: ZOOL 1001 and 1002. 2 hrs. lecture; 3 hrs. lab. Also offered as Mbio 2155. Deposit. Cytology of normal and pathological human blood and marrow; blood grouping and blood coagulation.

2157 Medical Mycology (3) F-S Prereq: Mbio 2051. 2 hrs. lecture; 3 hrs. lab. Also offered as Mbio 2157. Morphology, cultural characteristics, and classification of medically important fungi and contaminants.

3258 Quantitative Laboratory (3) F-S Prereq: CHEM 2251. 1 hr. lecture; 6 hrs. lab. Also offered as BCH 3058. Deposit. Quantitative analysis oriented toward biochemical and clinical determinations.
ANIMAL SCIENCE (ANSC)

1011 Fundamentals of Animal Husbandry (3) F S 2 hrs. lecture; 2 hrs. lab. Beef cattle, sheep, swine, and horses; their role in American agriculture.

2071 The Breeds of Farm Animals (3) F 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 equivalent. 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) F.S 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) F 1 hr. lecture; 4 hrs. lab. Basic principles and techniques involved in evaluation of meat animals and their carcasses.

3034 Advanced Live Animal and Carcass Evaluation (3) S Prereq: ANSC 3033. 1 hr. lecture; 4 hrs. lab. Advanced live animal and carcass evaluation.

3040 Classes and Grades of Livestock and Livestock Products (3) F 2 hrs. lecture; 2 hrs. lab. Practical phases of marketing; classifying, grading, preparing, and evaluating livestock and livestock products for market.

3051 Animal Science Problems (1-3) F,S,Su Prereq: consent of department head. May be repeated for credit for a maximum of 3 sem. hrs. Comprehensive written report required. Directed individual study of a problem in feeding, breeding, management, or marketing of farm animals.

3053 Meats (3) F 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) F Prereq: ANSC 2074 or equivalent. 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) F Prereq: CHEM 2060 or equivalent. Basic principles of nutrition including chemical composition of feeding stuffs, digestion, metabolism, and functions and values of nutrients.

4010 Applied Animal Nutrition (3) S Prereq: ANSC 4009 or equivalent. 2 hrs. lecture; 2 hrs. lab. Applied nutrition covering feed requirements of swine, beef cattle, sheep, swine, and horses; practice in formulating rations; identification, nutrition, and uses of feedstuffs.

4015 Physiology of Reproduction in Farm Animals (4) F 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.

4018 Principles of Animal Genetics (4) S Prereq: AGRI 2072 and EXST 4001; or equivalents. 3 hrs. lecture; 2 hrs. lab. Concepts of animal breeding and genetics as they relate to farm livestock.

* A graduate student will be allowed credit for only one of the following courses: ANSC 4081, 4084, 4086, or 4088.

4040 Quality Assurance in the Food Industry (4) See DARY 4040.

4071 Tropical Livestock Husbandry (3) F See DARY 4071.

4081* Swine Production (3) F Prereq: ANSC 4010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Practices in management of swine; breeding, feeding, and production in the south.

4084* Beef Cattle Production (3) S Prereq: ANSC 4010 or equivalent. 2 hrs. lecture; 2 hrs. lab. Practical work in feeding, care, and management practices in production of beef cattle; emphasis on production in the south.

4086* Sheep Production (2) S Prereq: ANSC 4010 or equivalent. 1 hr. lecture; 2 hrs. lab. Theory and practical work on management of sheep; nutrition, reproduction, breeding, and production in the south.

4092 Animal Science Proseminar (1) F,S Nutrition, animal breeding and production, and meat processing and preservation.

4094 Meat Technology (3) S-E Prereq: ANSC 3053; and BCH 2083 or equivalent. 2 hrs. lecture; 2 hrs. lab.

7001 Experimental Methods (2) F Prereq: credit or registration in EXST 7004 or equivalent. Scientific methods applied to animal science.

7006 Advanced Animal Genetics (3) F Prereq: DARY 7004 or equivalent. Application of genetic principles and theory to farm livestock populations.

7030 Energy in Nutrition (3) F Prereq: credit or registration in BCH 4084. Energy-supplying nutrients and their metabolism; energy balance; measuring food energy needs; dietary density; energy restriction and related topics.

7035 Laboratory Evaluation of Vitamins and Minerals (4) Su-O Prereq: BCH 4084 or equivalent. 2 hrs. lecture; 4 hrs. lab. Chemical methods, techniques, and laboratory equipment for basic nutrition research.

7040 Advanced Swine and Horse Nutrition (3) S Prereq: ANSC 4010 or equivalent. Applied nutrition as related to swine and horses.

7042 Advanced Beef and Sheep Nutrition (2) S Prereq: ANSC 4010 or equivalent. Interpretation and application of nutritional knowledge in beef and sheep production.

7050 Advanced Animal Physiology (4) S-E Prereq: consent of instructor. 3 hrs. lecture; 2 hrs. lab.

7051 Advanced Physiology of Reproduction (3) S-O Prereq: ANSC 4015 or DARY 4044. Processes of reproduction in farm animals.

7061 Research in Animal Science (1-6) F,S,Su 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, production; physiology of reproduction; and meat technology.

7093 Seminar (1) F,S May be taken 4 times for credit.

7094 Seminar in Nutrition (1) S Same as DARY 7094. FDSC 7094, HEC7094. PLSC7094. 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 (ANTH)

1001 Introduction to Physical Anthropology and Prehistory (3) Origin and evolution of people; evolution and its physiological bases; human prehistory; human diversity; origin and development of human culture through the rise of civilization.

1003 Introduction to Cultural and Social Anthropology (3) Diversity of human cultures; nature of culture, social organization, subsistence patterns, economics, law, politics, religion, language, and other institutions of culture viewed in cross-cultural perspective.

2015 Introduction to Archaeology (3) Archaeological goals, methods, techniques, and interpretations; particular prehistoric cultural sequences or projects; interdisciplinary relationship of archaeology with other social, life, and earth sciences.

2051 Introduction to World Ethnography (3) S-O Sex roles, economic pursuits, values, beliefs, families, and other institutions of selected nonwestern peoples; implications for American culture.

2423 Introduction to Folklore (3) F-O See ENGL 2423.

3004 Archaeology and the Bible (3) F See REL 3004.

3015 The Archaeology of Ancient Greece (3) See GREK 3015.

3060 Introduction to Anthropological Linguistics (3) Cultural variation in language and its uses; problems of language classification and areal linguistics; practice in phonemic and morphemic analysis of nonwestern languages.

3078 Field Methods in Archaeology (3) S Prereq: consent of instructor. May be taken twice for credit. Techniques of excavation, recording, laboratory analysis, and curation of archaeological material; participation in one or more archaeological excavations.

3401 The Study of Folklore (3) S-O Also offered as ENGL 3401. History of the study of folklore; methods of collection, interpretation, and analysis of folklore materials; myth, folklore, legend, folksong, ballads, folk humor, festival, and folk speech; psychological, contextual, and structural analysis of oral literature; specific reference to the heritage of Louisiana and the South.

3909 Undergraduate Seminar in Anthropology (3) May be taken 3 times for credit when topics vary.

4003 Indian Civilization of Middle and South America (3) S-E Ancient Maya, Aztec, and Inca civilizations; modern Indian groups in Latin America.

4004 The North American Indians (3) F Origin, distribution, language, and culture of the aboriginal population.

4100 Human Osteology (3) Prereq: ANTH 1001 and BIOL 1001, or equivalents; and consent of instructor. 2 hrs. lecture; 2 hrs. lab. Examination of the human skeleton including skeletal anatomy, bone growth, bone pathology, and forensic anthropology.

4105 North American Archaeology (3) S-E

4106 Old World Archaeology (3) S-O Cultural developments in prehistory ranging from the earliest evidence of humans to the foundations of civilization.

4117 Louisiana Archaeology (3) F Prereq: ANTH 4015 or equivalent. Two overnight field trips. Archaeology in the state of Louisiana; archaeological data relative to the Indian cultures dating from the end of the Pleistocene Period to the early historic era.

4023 Latin American Cultures (3) S-E Spanish-American cultures in Latin America; their relationship to current societal changes.

4025 Peoples and Cultures of Europe (3) S-E 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.

4031 Comparative Religions (3) S-O Religious systems in different levels of sociocultural evolution.

4040 Physical Anthropology (3) F Prereq: ANTH 1001; BIOL 1001, 1002; or ZOOL 1001, 1002. Human evolution, ecological adaptation, and genetic diversity.

4051 Africa (3) F Races and cultures of Negroid Africa.

4053 Afro-American Cultures (3) S-E Subcultures of Negroes in the new world; culture theory applied to origins, development, and present distinctiveness of these cultures.

4060 Language and Culture (3) S Relationship between various aspects of language and culture.

4063 Human Ecology (3) See SOCL 4711.

4064 Pidgin and Creole Languages (3) S-E Prereq: ANTH 4060 or equivalent. Also offered as FREN 4064. Linguistic, sociolinguistic, and anthropological study of new languages which emerge in contact situations, particularly among peoples of different race and culture; languages of the slave trade and European commercial expansion from the 15th through 18th centuries.

4081 Evolution of Man and Culture (3) F-O Man's biological and cultural evolution utilizing evidence from fossil records, archaeology, and ethnography.

4082 Social and Cultural Anthropology (3) F For graduate students with little or no anthropology background. Culture, society, and language in primitive and complex settings.

4083 Quaternary Paleoecology (3) F See GEOG 4083.

4085 History of Anthropological Theory (3) F-O Major theories in all branches of anthropology; emphasis on cultural and social anthropology.

4090 Ethnographic Methodology (3) F-E Students present papers based on their own field experience. Theories and techniques of ethnography; emphasis on utilization of informants.

4440 Vernacular Architecture and Material Culture (3) F-E Also offered as ARCH 4440. Subject matter and instructor may vary; additional details available from department. World vernacular architecture, including indigenous and folk buildings; other forms of material culture.

4475 American Folklore (3) See ENGL 4475.

4998 Independent Reading and Research in Anthropology (1-6) Prereq: prior written arrangement with instructor. 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.
Courses listed to the left of hyphens are normally prerequisite to those listed to the right.

1051 Introduction to Architecture (3) The practice of architecture; development of the built environment; the education of the architect; professional practice.

1153 Architectural Basic Design (S) 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 Introduction to Design Process (F) Structure and process of designing, based on a series of process stages and their interactions with specific tools related to each process stage and problem type.

1181 Introduction to Visual Communication—I (3) 6 hrs. lab. Studio hours supported by lectures and demonstrations. Development of primary skills in freehand drawing; perspective drawings, single-view three-dimensional drawings, orthographic drawings; and development of a visual vocabulary.

1182 Introduction to Visual Communication—II (3) 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 (F) Efforts to shape the environment from its prehistoric beginnings through the medieval period.

2142 History of Architecture (S) Prereq: ARCH 2141. Efforts to shape the environment from the Renaissance in Italy through the present.

2151-2152 Introduction to Spatial Design (3,3) 2151 offered F; 2152 offered S 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—1, II (6,6) 2153 offered F; 2154 offered S 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 Introduction to Building Structural Systems (3) F, Su Prereq: PHYS 2001 and either MATH 1431 or 1441 or 1550. Building structural mechanics (statics and strength of materials); analysis of structural elements and systems; emphasis on the selection and understanding of types of walls, footings, and structural materials; system application.

2172 Introduction to Energy Systems (3) S Prereq: PHYS 2002 and either MATH 1431 or 1441 or 1550. Basic principles and terminology of the thermal, atmospheric, sonic, and luminous environments with regard to human comfort and architectural response.

2173 Automated Graphics for Designers (3) See EGR 2185.

2174 Introduction to Architectural Systems (3) 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) V 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) S 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) V 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) V Prereq: ARCH 2151 and 2153. Types of architectural presentation; strategies and techniques used.

2482 Architectural Presentation Techniques (3) V Prereq: ARCH 2151 or 2153 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 (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. with consent of school director. 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) S Prereq: ARCH 3153 or equivalent. Fundamentals of urban design and planning.

3143 History of Modern Architecture—I (3) F Prereq: ARCH 2141 and 2142; or equivalents. Development of the modern movement in architecture from the late 18th century to the present.

3144 History of Modern Architecture—II (3) S Prereq: ARCH 3143 or equivalent. Continued development of modern architecture from the late 18th century to the present.

3145 Louisiana and Gulf Coastal Architecture (3) V History and development of Louisiana and Gulf Coastal architecture from the 17th century to the present.

3146 History and Theory of Urban Development (3) V Physical response to social, economic, technical, philosophical (religious-political), and natural forces throughout the ages.

3151-3152 Architectural Design—III, IV (6,6) 3151 offered F; 3152 offered S 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 synthesis of complete "building systems" of a complex nature.

3153-3154 Architectural Design—V, VI (6,6) 3153 offered F; 3154 offered S 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) S 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) V Prereq: ARCH 3160. Project administration; developing construction projects.

3162 Project Management—I (3) V Subject matter and vocabulary; technical problems of finance, real estate, and law relative to development projects.

3163 Project Management—II (3) V 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) F Prereq: ARCH 2172. Type, design, installation, and performance of mechanical equipment used in buildings, including plumbing and air conditioning.

3173 Architectural Acoustics and Illumination (4) S Prereq: ARCH 3171. Principles and practice of architectural acoustics and noise control; design of artificial and natural lighting systems; design of building electrical transmission systems.


3122 Architectural Synthesis (3-6) V Prereq: completion of all required fourth year coursework or consent of school director. May be repeated for credit for a maximum of 12 sem. hrs. Individually prescribed advanced architectural study.

3124 Architectural Synthesis (4) F Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3125 Architectural Synthesis (5) Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3126 Architectural Synthesis (6) F Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3127 Architectural Synthesis (7) Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3128 Architectural Synthesis (8) F Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3121 Selected Topics in Architecture (3) V May be taken 3 times for credit with school approval. Studies in various subjects related to architecture.

3134 Architectural Synthesis (4) S Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3135 Architectural Synthesis (5) V Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3136 Architectural Synthesis (6) S Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3137 Architectural Synthesis (7) V Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3138 Architectural Synthesis (8) S Prereq: completion of all required fourth year coursework or consent of school director. Individually prescribed advanced architectural study.

3153 Principles and Practice of Land Development (3) Prereq: ARCH 3162 or IE 4201 or equivalent background. Environmental, physical, and financial aspects of land development; population growth; income and employment projections; regression and correlation of land values; land ownership and finance vehicles; direct and indirect infrastructure; budget and marketing structure; pro forma cash flow and rate of return analyses.

3441 Literature of Architecture (3) V Prereq: ARCH 2141, 2142, 3143, and 3144. Development of aesthetic theory through architectural literature.

3442 Architecture in Louisiana Wetlands (3) V Prereq: ARCH 3152 or LA 3153. Architecture as it relates to the problems and potentials unique to building in Louisiana wetlands, such as flooding, foundation problems and problems of population density.
3453 Pattern Languages (3) V Prereq: junior standing. 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.

3456 Climate and House Design (3) V Climatic impact on the design of residential buildings.

3457 Hands on Materials—I (3) V 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) V 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.

3462 Industrialization of Housing (3) V The industrialization of housing—its many attempts and failures; understanding the causes behind the great number of failures.

3463 Scheduling Methodology (3) V Scheduling and the related tools; exposure to Gantt charts, CPM, PERT, and computerized techniques.

3471 Structural Forms in Architecture (3) V 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) V Fundamental concepts of direct thermal application of solar energy in buildings; active components and systems, both air and water.

3473 Architectural Consequences of Construction Decisions (3) V Prereq: ARCH 2153, 2154, 2171, and 2174. Modern structural materials and construction methods applied to solution of practical problems; in-depth decision making in the area of building construction.

3474 Passive Solar Energy Applications for Buildings (3) V Prereq: ARCH 2172. Applications of passive solar systems for space heating and space cooling of buildings: system concepts, sizing methodology, design and construction considerations, and components.

3481 Architectural Contract Documents—I (Drawings) (3) V Prereq: ARCH 2154. Organization and preparation of specifications required to form the basis of a construction contract between the owner and a building contractor.

4440 Vernacular Architecture and Material Culture (3) See ANTH 4440.

ART (ART)

GENERAL COURSES

1001 Introduction to Fine Arts (3) Fundamental problems and concepts of art in the fields of design, sculpture, graphics, painting, and ceramics, as related to home, community, religion, commerce, and industry.

1011 Art Structure (3) 6 hrs. studio. The disciplines in art, with practice in the various media.

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.

PHOTOGRAPHY

2095 Basic Photography (3) 6 hrs. studio. Basic photographic concepts and techniques; practical and expressive application of photographic processes to the visual arts.

2096 Intermediate Photography (3) Prereq: ART 2095. 6 hrs. studio. A combination of experimental darkroom lab techniques; continuing development of black and white photography, with emphasis on creative image orientation.

3094 Advanced Photography (3) Prereq: ART 2096. 6 hrs. studio. Technical investigation of contemporary hardware and materials; critical testing of equipment, films, and printing papers; emphasis on process control; aesthetic possibilities of photography.

3096 Color Transparencies (3) Prereq: basic photography. 6 hrs. studio. A combination of experimental darkroom lab techniques; continuing development of color photography, with emphasis on creative image orientation.

3097 Basic Film Production (3) Prereq: ART 3094. 6 hrs. studio. Basic camera editing and lighting techniques; exploring the expressive possibilities of black and white silent film.

4041 Special Studies in Photography (3 or 6) 6 or 12 hrs. studio. May be repeated for credit for a maximum of 6 sem. hrs. Studio production of fine prints; independent individual creative research and problems in photography.

4096 Color Printing (3 or 6) Prereq: ART 3095. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 6 sem. hrs. Introduction to color negative materials and printing methods; emphasis on the aesthetic possibilities of color photography.

ART EDUCATION

2271-2272 Art Education for Elementary Schools (3,3) ART 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) Su 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, 6, or 9) Prereq: ART 1361. 6, 12, or 18 hrs. studio. May be repeated for credit for a maximum of 9 sem. hrs. Advanced intaglio techniques.

2372 Intermediate Lithography (3, 6, or 9) Prereq: ART 1371. 6, 12, or 18 hrs. studio. May be repeated for credit for a maximum of 9 sem. hrs. Planographic printing from stones and plates in black and white and color.

4361 Advanced Intaglio (3, 6, 9, or 12) Prereq: consent of instructor based on review of student's portfolio. 6, 12, 18, or 24 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Advanced intaglio techniques.

4366 Special Studies in Printmaking (3, 6, 9, or 2) Prereq: consent of instructor based on review of student's portfolio. 6, 12, 18, or 24 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Advanced work in a predetermined area of specialization.

4371 Advanced Lithography (3, 6, 9, or 12) Prereq: consent of instructor based on review of students' portfolio. 6, 12, 18, or 24 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 Netherlands Painting (3) Art of the Low Countries and Germany in the 15th and 16th centuries, with emphasis on such masters as the Limbourgs, 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.

4421 History of Western Decorative Arts from the Renaissance to 1850 (3) Development of decorative arts design; emphasis on furniture, with attendant investigations of materials, metals, textiles, ceramics, and glass; materials, constructional techniques, and socioeconomic conditions giving rise to the objects' fabrication.

4422 History of Modern Design (3) Aesthetic theory and stylistic evolution of decorative arts from mid-19th century to the present; emphasis on crafts, architectural decoration, furniture, interior design, and industrial design; Victorian period; arts and crafts movement, art nouveau, Bauhaus, and international style.

4425 Renaissance Sculpture in Italy (3) Italian sculpture from 1250 to 1600; emphasis on Ghiberti, Donatello, Michelangelo, Giambologna.

4426 Renaissance and Manierist 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.

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.

4450 19th-Century European Painting (3) History of painting in European countries from the French Revolution (1789) to
1900; emphasis on Neoclassicism, Romanticism, Realism, Impressionism, Post-Impressionism, and Symbolism.

4451 20th-Century European Painting (3) History of painting in European countries from the beginning of the century to the present; emphasis on Fauvism, Cubism, Constructivism, Surrealism and Dada, Italian Futurism, German Expressionism, Minimal Art, and the School of Paris.

4464 Early American Art to 1900 (3) North American painting, architecture, and sculpture from the colonial beginnings to 1900; special emphasis on painting.

4465 American Painting, 1900-1950 (3) Emphasis on the relationship of artists to the social and cultural developments in America as revealed through slides, photographs, newspapers, reels, and museums.

4466 Contemporary American Art, 1950-Present (3) History of recent American art, especially painting, from Abstract Expressionism through contemporary realist movements in painting, sculpture, and mixed media.

4467 Latin American Art (3) Pre-Hispanic, colonial and contemporary architecture, painting, sculpture, and related arts throughout Latin America.

4470 History of Photography (3) History of photography from its inception in the 1830's until the present; the technological development of the medium and its inherent aesthetics; the interrelationships between photography and more traditional media.

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.

GRAPHIC DESIGN

2551 Basic Design (3) 6 hrs. studio. Design as a basic problem-solving creative activity; project work dealing with mechanical and communicative utility; testing and outside research.

2552 Color Design (3) Color as a functional design element of perception and visual communication.

2553 Introduction to Product Design (3) Prereq: EGR 1001 and ART 2551. 6 hrs. studio. 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 Graphic Design (3) 6 hrs. studio. Agency-studio procedures and techniques (thumbnail sketches, layout, and comprehensives); design problems, with emphasis on letterforms commonly used in advertising/graphic design.

2555 Color in Lighting (3) 6 hrs. studio. Color effects of light on transparent, translucent, and opaque materials; color light mixing systems; display effects available through colored lighting.

3544 Typography and Letterforms (3) 6 hrs. studio. Development of typographic and lettering skills through the functional and aesthetic use of type and letterforms as design elements; practical and creative use of typography and letterforms as applied to visual communication.

3554 Intermediate Graphic Design (3) Prereq: ART 2554. 6 hrs. studio. The exploration of media and their roles relative to graphic design through a variety of design problems; copy preparation and specification.

3564 Illustration for the Graphic Designer (3) Prereq: ART 3554. 6 hrs. studio. Techniques of illustration; problems of layout and product illustration.

4514 Experimental Design (4) Prereq: consent of instructor based on review of student's portfolio. 9 hrs. studio. Advanced work of an experimental nature in materials investigation, construction innovations, and test model performance evaluations.

4524 Production Techniques (3) Prereq: ART 3554. 6 hrs. studio. Basic studio and agency techniques related to reproduction problems in the field; introduction of typesetting methods and the basic printing processes; experimentation with paste-up techniques (keyline, blueine, and mechanical overlays).

4534 Photo-Design Application (3) Prereq: ART 3554. 6 hrs. studio. Investigation of photography as an illustration technique through a series of experimental problems; its application to layout and product illustration relative to the role of the designer.

4541 Special Studies in Graphic Design (3) Prereq: consent of instructor based on review of student's portfolio. 6 hrs. studio. Advanced work in a predetermined area of specialization.

4544 Advanced Production Techniques (3) Prereq: ART 4524. 6 hrs. studio. Advanced techniques and practical experience with graphic arts equipment.

4551 Design (3) 6 hrs. studio. Problems in design related to the professional design field; creative work in methods of reproduction, exhibition techniques, and industrial and product design.

4552 Product Design (3) Prereq: ART 2553 or consent of instructor. 6 hrs. studio. Technology, needs, and market as related to the mass-produced article; materials research; human engineering; prototype construction; presentation methods; field trips.

4555 Advanced Graphic Design (3) Prereq: ART 3554. 6 hrs. studio. Principles of visual communication through graphic design; projects include problems in design theory and application.

4556 Advanced Design (5) Prereq: 3 sem. hrs. in advanced design coursework and consent of instructor based on review of student's portfolio. 10 hrs. studio. Advanced studio work in a predetermined area of design specialization.

4557 Advanced Project in Graphic Design (5) Prereq: 3 sem. hrs. in advanced design coursework and consent of instructor based on student's portfolio evaluation. Advanced studio work in a predetermined area of design specialization.

4564 Senior Graphic Design (3) Prereq: ART 4555. 6 hrs. studio. Design projects investigating problems of visual communication; individual and group projects with professional-level presentations.

4574 Graphic Design Synthesis (5) Prereq: ART 4544. 10 hrs. studio. Degree project or internship approved by design faculty committee; degree project consists of a graphic design project initiated by student.

7551-7552 Graduate Design (3,3) 6 hrs. studio.

7553, 7554, 7555, 7556 Graduate Research in Design (3 each) Prereq: consent of instructor. 6 hrs. studio.
CERAMICS

1661 Introduction to Ceramics (3) 6 hrs. studio. Studio problems in pottery, glazing, and kiln firing.

2661 Ceramics (3, 6, or 9) Prereq: ART 1661. 6, 12, or 18 hrs. studio. May be repeated for credit for a maximum of 9 sem. hrs. Studio problems in ceramics; formulation of clay bodies and glazes; theories of kiln operation and maintenance.

3661 Intermediate Ceramics (3, 6, 9, or 12) Prereq: ART 2661 and completion of the core courses in arts 6, 12, 18, or 24 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, 6, or 9) Prereq: 6 sem. hrs. of credit in ART 4661. May be repeated for credit for a maximum of 12 sem. hrs. Advanced studio work in predetermined area of specialization.

4661 Advanced Ceramics (3, 6, 9 or 12) Prereq: ART 3661 and/or approval of portfolio by ceramics faculty. 6, 12, 18, or 24 hrs. studio. May be repeated for credit for a maximum of 24 sem. hrs. Studio problems in ceramics.

4671 Ceramic Sculpture (3, 6, 9, or 12) Prereq: ART 1762 and consent of instructor. 6, 12, 18, or 24 hrs. studio. May be repeated for credit for a maximum of 12 sem. hrs. Clay as a medium for sculpture.

4681 Glassblowing (3, 6, 9, or 12) Prereq: completion of the core courses in art 6, 12, 18, or 24 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 ART 4661. 6 hrs. studio. May be taken twice for credit. Proposal and execution of a ceramics or stained glass project under the direction of a major professor.

7600 Graduate Ceramics (3, 6, 9, or 12) 6, 12, 18, or 24 hrs. studio. May be repeated for credit for a maximum of 36 sem. hrs.

JEWELRY/METALSMITHING

2655 Basic Jewelry/Metalsmithing (3) 6 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: ART 2655 or equivalent. 6 hrs. studio. May be taken twice for credit. Sand, cuttle bone, steam, vacuum, and centrifugal casting; studio work in bronze, sterling silver, and gold.

4651 Special Studies in Jewelry/Metalsmithing (3 or 6) Prereq: consent of instructor. 6 hrs. studio for each 3 sem. hrs. of credit. May be repeated for credit for a maximum of 6 sem. hrs. Studio work in a predetermined area of specialization; emphasis on a single technique or material.

4654 Jewelry/Metalsmithing: Forging and Forming (3 or 6) Prereq: ART 2655 or equivalent. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 6 sem. hrs. Fundamentals in metal forming processes including hand raising, masonite die, and forging techniques; working with copper, bronze, sterling silver, and iron.

4655 Advanced Jewelry/Metalsmithing (3 or 6) Prereq: ART 2656 or equivalent. 6 hrs. studio for each 3 sem. hrs. of credit. May be repeated for credit for a maximum of 6 sem. hrs. Advanced studio problems in forging, forming, reproduction processes, and construction techniques; emphasis on the historical and contemporary subject of jewelry/metal smithing.

4656 Jewelry/Metalsmithing: Advanced Construction Methods (3, 6, or 9) Prereq: ART 4655. 6, 12, or 18 hrs. studio. May be taken for credit for a maximum of 9 sem. hrs. Advanced soldering, forming, fabrication methods, and the creative use of hand tools, jigs, and machine operations.

STAINED GLASS

1645 Introduction to Stained Glass (3) 6 hrs. studio. Two-dimensional design fundamentals; analysis of the phenomena of light and color; elementary techniques of flat glass construction.

2645 Stained Glass (3) Prereq: ART 1011, 1847, 1848, and consent of instructor. 6 hrs. studio. Limited enrollment. Materials fee. Design and execution of stained glass windows; craftsmanship and differentiation of styles and techniques.

3645-3646 Stained Glass (3, 3) Prereq: ART 2645 and 2646. 6 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.

4645 Stained Glass (3, 6, or 9) Prereq: ART 3645-3646 and consent of instructor. 6 hrs. studio for each 3 sem. hrs. of credit. May be repeated for credit for a maximum of 9 sem. hrs. 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 or 6) Prereq: 9 sem. hrs. in ART 4645. 6 hrs. studio for each 3 sem. hrs. of credit. May be repeated for credit for a maximum of 6 sem. hrs. Limited enrollment. Materials fee. Independent experimentation in stained glass terminating in a senior exhibition.

7645 Graduate Stained Glass (3 or 6) Prereq: consent of instructor. 6 or 12 hrs. studio. May be repeated for credit for a maximum of 6 sem. hrs. 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, 6, 9, or 12) Prereq: consent of instructor. 6, 12, 18, or 24 hrs. studio. May be repeated for credit for a maximum of 15 sem. hrs. 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, 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 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.
PAINTING AND DRAWING

1847 Drawing and Composition (3) 6 hrs. studio. Basic principles of observation; emphasis on graphic analysis and delineation of spatial structure.

1848 Drawing and Composition (3) 6 hrs. studio. Studies from the live model; introduction of graphic representation, structure, and form.

1849 Introduction to Painting (3) 6 hrs. studio/lecture. Basic studio practice and theory in painting; traditional and modern materials and terminology; value and color experiences involving simple forms in space.

2879 Intermediate Drawing and Composition (3) Prereq: ART 1848. 6 hrs. studio. Imaginative composition utilizing the figure, still-life, and landscape forms.

2881 Painting (3) Prereq: ART 1847 and 1848. 6 hrs. studio. Studio problems in still-life directed toward conceptual attitudes; analysis of structure and color in composition; individual criticism, class discussion.

2882 Painting (3) Prereq: ART 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: ART 1847 and 1848. 6 hrs. studio. Objects and landscape; composition in water-soluble media on paper.

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.

2011 HONORS: The Age of Enlightenment (3) Literature, philosophy, history, art, and science of the age of enlightenment.

2012 HONORS: The 19th Century (3) Perspectives fundamental to 19th-century culture; relevant works of literature, philosophy, art, science.
2013 HONORS: The 20th Century (3) May be taken twice for credit. Selected themes in 20th-century civilization.
2021 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.
3030 HONORS: Humanities Colloquium (3) May be taken twice for credit. Selected themes and materials in literature, philosophy, history, and art.
3031 HONORS: American Studies (3) May be taken twice for credit. Selected topics in American civilization.
3033 HONORS: Social Science Colloquium (3) May be taken twice for credit. Topics of significance from the standpoint of various social sciences.
3035 HONORS: Natural Science Colloquium (3) Prereq: completion of one-year course in a physical science and one-year course in a biological science, at least one with laboratory; or consent of instructor. May be taken twice for credit. Selected topics illustrative of developing concepts of the natural and physical universe and of living organisms.
3100 HONORS: Internships, Field Work, Off-campus Programs (1-6) Prereq: consent of director of the Division of Honors and Interdisciplinary Studies. May be repeated for credit for a maximum of 6 sem. hrs. Variable credit course framework for special learning opportunities.
3991 HONORS: Thesis (3) Independent research and writing toward the honors thesis; the thesis itself to be completed in A&S 3992.
3992 HONORS: Thesis (3) An essay based on independent reading and research or a report on laboratory or field research.

ASTRONOMY (ASTR)

1101 The Solar System (3) Prereq: MATH 0005 or equivalent or an ACT math score of at least 21. Credit will not be given for both this course and ASTR 1111-1112. Fundamental principles of the solar system.
1102 Stellar Astronomy (3) Prereq: MATH 0005 or equivalent or an ACT math score of at least 21. Credit will not be given for both this course and ASTR 1111-1112. Fundamental principles of stellar astronomy.
1108 Astronomy Laboratory (1) 2 hrs. lab. Accompanies ASTR 1101; visual observations of positions of celestial bodies with application to star charts and globes; visual and photographic observations with 1 1/2-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 1 1/2-inch refractor and 4-inch reflectors; analysis of light from terrestrial and celestial sources; interpretation of astronomical data.
1111-1112 Introductory Astronomy (3,3) FS Prereq: MATH 1021 and 1022; or MATH 1023; or eligibility for MATH 1550. Credit will not be given for both these courses and ASTR 1101 and 1102. Principally for students in physical sciences or science education. Applications of physical principles to the study of the solar system (1111) and to stellar systems (1112).
2001 Current Topics in Astronomy and Astrophysics (3) S Prereq: ASTR 1101 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.
4221-4222 Introductory Astrophysics (3,3) V Prereq: PHYS 1202 or 2102 or consent of instructor. Sun, stars, and stellar systems; results and problems of modern astrophysical research.
4261 Modern Observational Techniques (3) V Prereq: ASTR 1111-1112 and MATH 1552. 1 hr. lecture; 6 hrs. lab. Modern astronomical observations and reductions; the telescope, astronomical photography, spectroscopic and photometric observations and reductions.
4750 Special Topics in Observational Astronomy (3) V May be taken twice for credit when topics vary. One topic scheduled each time course is offered; current topics include astronomical spectroscopy and astronomical photometry; students may use the LSU Observatory 36-inch telescope for course projects.
4997 Problems in Astronomy (1-3) Prereq: consent of instructor. May be repeated for credit for a maximum of 3 sem. hrs. Individual reading and theoretical and/or experimental work on advanced problems.
6101 Astronomy for Teachers (4) SA V For teachers and students in the College of Education. Cannot be taken for degree credit by students majoring in physics or astronomy. General astronomy including the solar system, stellar astronomy, and stellar systems.
7740 Special Topics in Stellar Astronomy (3) V May be repeated for credit. One topic scheduled each time course is offered; current topics include stellar atmospheres, stellar interiors, binary stars, and high-energy astrophysics.
7750 Special Topics in Galactic Astronomy (3) V May be repeated for credit. One topic scheduled each time course is offered; current topics include the interstellar medium, stellar motions, galactic structure, and extragalactic astronomy.
7777 Seminar in Astronomy (1-6) V May be repeated for credit for a maximum of 6 sem. hrs. Topics vary.

BIOCHEMISTRY (BCH)

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.

2084* Elementary Biochemistry Laboratory (1) F,S Prereq: one semester of chemistry laboratory, CHEM 2060, and credit or registration in BCH 2083. 3 hrs. lab. Deposit.

2280 Introduction to Biochemistry (1) V 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) F,S,Su May be taken 4 times for credit. Introduction to research in biochemistry by association with a departmental research group.

3058 Quantitative Laboratory (3) F,S See ALLH 3258.

3999 Undergraduate Research (1-3) F,S,Su 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) F,S Prereq: CHEM 2261 and PHYS 2022; MATH 1550 desirable. Theoretical chemistry; emphasis on solutions, equilibria, and topics of interest to students in agricultural and biological sciences.

4083 Principles of Biochemistry (3) F,S Prereq: CHEM 2262. Credit will be given for only one of the following: BCH 4083, 4087, 4393. BCH 4083 and 4084 are designed for students majoring in life sciences curricula which require a more thorough knowledge of biochemistry than is presented in a one-semester course. Fundamentals of biochemistry; structural and functional properties of carbohydrates, lipids, nucleic acids, and proteins; enzyme kinetics and mechanisms and cellular bioenergetics.

4084 Principles of Biochemistry (3) F,S,Su Prereq: BCH 4083. Credit will not be given for both this course and BCH 4394. A continuation of BCH 4083; topics include metabolism of carbohydrates, lipids, amino acids, and nucleotides; molecular biology and biochemistry of cellular DNA synthesis and repair and of protein synthesis.

4087 Basic Biochemistry (3) F,S,Su Prereq: CHEM 2262. Credit will not be given for both this course and BCH 4083 or 4393. Cellular macromolecules; production and utilization of energy by the cell; major metabolic pathways and their control.

4089 Veterinary Biochemistry (3) See VMED 5101.

4385 Biochemistry Laboratory (3) F,S 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.

4390 Information Retrieval in the Sciences (1) F,S Prereq: senior or graduate standing or consent of instructor. Modern methods of information retrieval from abstracts, scientific research literature, published computerized index programs, and key-word citation systems; proper techniques in data presentation.

4393 General Biochemistry (3) F 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.

4394 General Biochemistry (3) S Prereq: BCH 4393 or equivalent. Credit will not be given for both this course and BCH 4084. A continuation of BCH 4393, with emphasis on metabolism.

4397 Biochemical Reaction Mechanisms (3) S Prereq: BCH 4393 and CHEM 2262. Basic concepts of biochemical reaction mechanisms.

4595 Physical Chemistry of Macromolecules (3) V Prereq: CHEM 2262 and 4492. Also offered as CHEM 4595. Theory and physical techniques appropriate for study of conformational and dilute solution properties of polypeptides, proteins, nucleic acids, polysaccharides, and synthetic polymers.

7163 Advanced Technology of Molecular Biology—Genetic Aspects (3) V Prereq: credit or registration in BCH 7280 or MBIO 7162. 1 hr. lecture; 6 hrs. lab. Same as MBIO 7163. Laboratory techniques used to study mutation, chromosomal mapping, conjugation, and transduction in bacteria and their phages.

7164 Advanced Technology of Molecular Biology—Biochemical Aspects (3) V Prereq: credit or registration in BCH 7280 or MBIO 7162. 1 hr. lecture; 6 hrs. lab. Same as MBIO 7164. DNA cloning (between prokaryotes), mapping of restriction enzyme cutting sites, sequencing, heteroduplex, ultracentrifugation, and gel electrophoresis; principles of genetics emphasized.

7280 Biochemistry of Nucleic Acids (3) V Prereq: BCH 4083 or 4393 or equivalent. Organic chemistry and biochemistry of nucleic acids; biochemical mechanisms of gene action; review of recent literature.

7281 Advanced Biochemistry (3) V Prereq: BCH 4084. Biochemical aspects of living cells; emphasis on metabolic systems and research techniques.

7282 Biochemical Regulation and Control (3) V Prereq: BCH 4084 or 4394 or equivalent. Regulation of biochemical systems by levels of metabolites and enzymes, protein-protein interactions, actions of hormones and neuroendocrine systems, and metabolic systems.

7284 Chemistry of the Proteins (3) V Prereq: CHEM 4491 or BCH 4001; and BCH 4083 or equivalent. Conformations of fibrous and globular proteins; their interactions with small and large molecules.

7285 Advanced Enzymology (3) S-O Prereq: one semester of physical chemistry and credit or registration in BCH 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.

7286 Seminar (1) F,S May be repeated for credit. Reports and discussions on topics of current interest in biochemistry.

7287 Special Topics in Biochemistry (2) V Prereq: BCH 4394 or equivalent. May be taken 4 times for credit. Specialized treatment of a variety of modern biochemistry topics of current interest.

7288 Lipid Chemistry (2) V Prereq: BCH 4084 or 4394. Chemistry and metabolism of lipids; role of lipids in physiological and pathological processes.

7289 Biochemistry of Viruses (3) V Prereq: BCH 4084 or 4394 or equivalent. Biochemistry and molecular biology of representative bacterial, animal, and plant viruses; includes virus attachment to and penetration of host cells; replication,
transcription, and translation of viral genes; virion morphogenesis and assembly; virus-induced host cell modifications; emphasis on structure-function relationships.

8000 Thesis Research (1-9 per sem.)

9000 Procedures and Problems in Biochemical Research (1-9 per sem.) F,S,Su Open to students to perform predissertation research and to others who wish specific experience under the direction of a biochemistry faculty member. Pass-fail grading. Experimental research methods, design and performance of experiments, and analysis and interpretation of data.

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 majoring 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 majoring in zoology must take ZOOL 1001, 1002, not BIOL 1001, 1002, 1003, 1004. 2 hrs. lab. Lab to accompany BIOL 1001, 1002.

BOOKS AND LIBRARIES (BKL)

1001 An Introduction to the Use of the Library (1) Lectures and research assignments in the fundamentals of library research; emphasis on individual students' majors and interests.

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.

2015 Genetics and Society (3) Prereq: BIOL 1001 and 1002. Not a prerequisite for other genetics courses. For non-science majors. Also offered as ZOOL 2015. Genetics as it affects society; basic, human, and population genetics; testing for mutagenic and carcinogenic agents; genetic engineering; potential dangers and ethical problems.

2055 Field Botany (4) 2 hrs. lecture; 4 hrs. lab. Field service fee. Systematic and ecological approach to the major plant groups; emphasis on laboratory and field experiences.

3060 Introductory Plant Physiology (4) See CPWS 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. Structure 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. 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.
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 equivalent, 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 Palynology (4) Prereq: BOTY 4052 or equivalent. 2 hrs. lecture; 4 hrs. lab. Field service fee. Ultrastructure and biochemistry of various groups of algae; includes economically important algae, algae as a source of protein, and algae and the environment.

7056 Advanced Mycology (4) Prereq: BOTY 4054 or equivalent. 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 CPWS 7061.

7063 Plant Metabolism (3) See CPWS 7063.

7065 Mineral Nutrition of Plants (3) Prereq: BOTY 3060. Also offered as CPWS 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 CPWS 7066. Laboratory techniques and experiences pertinent to plant nutrition.

7067 Selected Topics in Plant Physiology (2) Prereq: consent of instructor. May be repeated for credit. Also offered as CPWS 7067. Mineral nutrition, metabolism, growth and development, and herbicides.

7068 Current Literature in Plant Physiology (1) See CPWS 7068.

7082 Research Methods in Plant Ecology (3) Prereq: BOTY 4046 or equivalent. 2 hrs. lecture; 3 hrs. lab. Field service fee. Methods employed in description and analysis of vegetation.

7701 Electron Microscopy (2) Same as GEOL 7701, ME 7701, MBIO 7701, and ZOOL 7701. Transmission and scanning electron microscopy; x-ray analysis of biological and nonbiological materials; theory, operation, and application of the instruments.

7702 Transmission Electron Microscopy Laboratory: Biological Materials (3) Prereq: credit or registration in BOTY 7701 or equivalent. 9 hrs. lab. Same as MBIO 7702 and ZOOL 7702. Preparation of biological specimens for transmission electron microscopy; use of the electron microscope.

7703 Scanning Electron Microscopy Laboratory: Biological Materials (2) Prereq: credit or registration in BOTY 7701 or equivalent. 6 hrs. lab. Same as MBIO7703 and ZOOL7703. 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) V Prereq: consent of instructor. May be repeated for credit for a maximum of 8 sem. hrs. Directed individual readings under the guidance of a graduate faculty member.

8000 Thesis Research (1-9 per sem.)

8990 Problems and Research (3-5) For doctoral students only.

9000 Dissertation Research (1-9 per sem.)

BUSINESS ADMINISTRATION (BADM)

0999 Career Planning and Placement (1) Suggested for second semester juniors. How to seek employment; phases of job hunting involved with planning a career, exploring strengths, planning and preparing résumés and related letters, using résumés, preparing and conducting interviews, and psychological testing.

1001 Introduction to Business (3) May not be taken by students in the College of Business Administration. Operation of the business firm; function of the businessman; nature of economic system within which private enterprise operates; orientation to collegiate business education.

3190 Business Policies and Problems (3) See MGT 3190.

7270 Seminar in New Developments in Business Administration (3)

BUSINESS COMMUNICATIONS AND OFFICE SYSTEMS (BCOS)

BUSINESS COMMUNICATIONS

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.

3070 Business Report Writing (3) Prereq: BCOS 2071. Sources and use of primary and secondary business information; evaluation of research; problem analysis, organization, make-up, and writing of business reports; strategies of oral presentations.
4200 Managerial Communication (3) Prereq: BCOS 2071. Theory and application of oral and written communication essential to the management process; relation of communication to management style, training, information processing, and other management functions.

5072 Business Communication—I (1) Basic application of written communication principles as they relate to business writing; includes reports and résumé preparation.

5073 Business Communication—II (1) Analysis and application of business knowledge to administrative reporting problems; instruction and practice in oral presentations of administrative reports.

7260 Seminar in Administrative Communication Theory (3) Administrative communication and communication theory as related to organizations.

OFFICE SYSTEMS

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.

CHEMICAL ENGINEERING (CHE)

2171 Chemical Engineering Fundamentals—Material and Energy Balances (3) Prereq: MATH 1550 and CHEM 1202. Emphasis on basic principles and concepts used to make chemical engineering calculations; techniques used in these calculations applied to typical industrial problems.

2176 Mathematical Modeling of Chemical Engineering Systems (3) 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.

3249-3250 Engineering Practice (1-3, 1-3) Su only Prereq: consent of instructor. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participating in the summer program. Same as ENGR 3049-3050. Selected engineering problems in an industrial environment.

3271, 3272 Senior Projects (1-2, 1-2) Prereq: consent of department. Pass-fail grading. Experimental and theoretical investigations including library research.

4101 Transport Sciences: Momentum Transfer (3) 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.

4171 Process Economics and Optimization (3) Prereq: credit or registration in CHE 4151. Application of optimization principles to the economic design of chemical engineering unit operations.

4172 Process Design (3) Prereq: CHE 4151 and 4171. 2 hrs. lecture; 3 hrs. lab. Chemical plant design from initial concept through definitive design; includes flow diagrams, plant location, operations, safety, and waste disposal.

4173 Computer-Aided Process Design (2) Prereq: credit or registration in CHE 4172. Solution of material and energy balances for large scale process flow sheets without incorporation of detailed unit operations models.

4174 Process Economics (1) Prereq: CHE 4151. Application of economic principles to chemical process design.

4190 Chemical Reaction Engineering (3) Prereq: CHE 3173 and 4101; or equivalents. Basic principles of reactor design; selection of best design alternatives; achievement of optimum reactor operation.
4204 Technology of Petroleum Refining (3) Catalytic and thermal processes used in petroleum refining; application of scientific and engineering principles in processes such as catalytic cracking, reforming, coking, alkylation, isomerization, and hydroprocessing; emphasis on applied catalysis and its impact on engineering design.

4205 Technology of Petrochemical Industry (3) Processes used in the manufacture of petroleum-based chemicals; application of scientific and engineering principles involved in the production of hydrogen, alcohols, olefins, aromatics, aldehydes, ketones, acids, rubber, and other polymers; emphasis on catalysis by transition-metal complexes.

4253 Introduction to Industrial Pollution Control (3) Prereq: CHEM 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: CHEM 4104 and credit or registration in CHEM 4151; or consent of instructor. 1½ hrs. lecture; 4½ 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: CHEM 4104 and 4151. 1½ hrs. lecture; 4½ hrs. lab. Obtaining and interpreting data needed to solve typical problems in design or operation of chemical engineering equipment.

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.

4296 Development of Mathematical Models (3) Prereq: CHEM 2176 and 4102, or equivalents. 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.

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; diffusion 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 relationship of thermodynamic properties to intermolecular forces; physical equilibrium with emphasis on partial free energy, fugacity, Raoult's law, K-values, equations of state, and activity coefficients; chemical equilibrium and free energies.

7260 Chemical Reactor Design Methods (3) Basic principles of chemical kinetics, fluid flow, heat transfer, and mass transfer used in design of chemical reactors; chemical equilibria, chemical kinetics, design of isothermal reactors, effects of non-ideal flow, non-isothermal reactors, and solid-gas 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; 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.

7280 Polymerization and Polycondensation Processes (4) Prereq: CHEM 4160 or 4562 or CHEM 4285 or equivalent. 3 hrs. lecture; 3 hrs. demonstration/lab. Also offered as CHEM 7261. Preparation and characterization of high polymers; typical commercial procedures for plastics production.

7290 Design Problems in Chemical Engineering (3) Prior to registration students should discuss a prospective design problem with faculty member under whom they plan to study. Integration of technology into design of systems or plants for accomplishing specific objectives; students work
under faculty direction; emphasis on producing a design package considering technical, economic, manning, and scheduling aspects of the project; design problem cannot be directly related to student’s research.

7295 Advanced Topics in Chemical Engineering (3) May be taken 3 times for credit with consent of instructor. One or more phases of advanced chemical engineering practice.

8000 Thesis Research (1-9 per sem.)
9000 Dissertation Research (1-9 per sem.)

CHEMISTRY (CHEM)

Laboratory Expenses: Students registering for laboratory courses in chemistry must make indemnifying deposits. Instructions and forms for making deposits will be provided at the first meeting of the laboratory. Any student unable to show a receipt for a deposit by the end of the second class period will not be permitted to continue in the course.

Prerequisites: All prerequisites in chemistry courses should be rigidly observed.

Corerequisites: A student may not continue in a course if the corerequisite course is dropped prior to the last day of the midsemester examination period.

1001 General Chemistry for Non-Science Majors (3) Prereq: ACT math score of at least 21 or eligibility for MATH 1021. Credit will not be given for both this course and CHEM 1201 or 1421. For students whose curricula require only one year of chemistry or physical science. Modern chemical theory and principles; descriptive chemistry of selected elements and compounds; the role of chemistry in the modern world.

1002 General Chemistry for Non-Science Majors (3) Prereq: CHEM 1001 or 1201 or 1421. Credit will not be given for both this course and CHEM 1202 or 1422. Continuation of CHEM 1001; organic chemistry and biochemistry; polymers, pollution, and pharmaceuticals.

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 curricula. 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 1550. Credit will not be given for both this course and CHEM 1001 or 1201. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.

1422 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 1004 or 1212. 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 quantitative and qualitative inorganic analysis.

2060 Organic Chemistry (3) Prereq: CHEM 1202. Credit will not be given for both this course and CHEM 2261. Aliphatic and aromatic compounds; biological aspects of organic chemistry.

2251 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) Same as 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 1552; PHYS 1202 or 2102; and CHEM 1202, 1422, or equivalent; all three courses with a grade of "C" or better. CHEM 4491 is prerequisite for CHEM 4492. Principles of theoretical chemistry.

4493 Physical Chemistry Laboratory (2) Prereq: PHYS 1209 or 2109; CHEM 1212 or 1432; and credit in 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: 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; quantum chemistry.

4595 Physical Chemistry of Macromolecules (3) V See BCH 4595.

4596 Theoretical Chemistry (3) Prereq: CHEM 2262 and 4492. Advanced treatment of fundamental principles of physical chemistry; advanced thermodynamics.

7221 Chemical Kinetics and Mechanisms (2) Theory of chemical reaction rates and application of these rates in study of reaction mechanisms.

7251 Elemental Analysis (2) Modern analytical methods for elemental analysis including atomic absorption; atomic emission including plasma; X-ray emission; ESCA-Auger; neutron activation analysis.

7252 Nonspectroscopic Analytical Chemistry (2) Nonspectroscopic analytical chemistry including electrochemistry, thermal analysis, chromatography, coordination chemistry, organic reagents, and catalyzed and induced reactions.

7253 Molecular Analysis (2) Modern analytical methods for molecular characterization including infra-red, Fourier transform infra-red, ultraviolet, nuclear magnetic resonance, mass spectroscopy, chromatography, gas chromatography coupled with mass spectroscopy, thermal analysis, and X-ray diffraction.

7261 Polymerization and Polycondensation Processes (4) See CHE 7280.

7271 Inorganic Chemistry of Nontransition 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 transition- element chemistries 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, rotors, 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 per 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 per 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 per semester; current topics include coordination chemistry, struc-
tural 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.

CHINESE (CHIN)

1001 Introduction to Chinese (5) Spoken Chinese and character writing; drill in Chinese dialogs in the language laboratory.

CIVIL ENGINEERING (CE)

In the Department of Civil Engineering, the second digit of the course number denotes the subject areas of the courses as follows: 0—construction (excluding 8000, 8001, 9000); 1—sanitary; 2—fluids (hydraulics); 3—geotechnical; 4—structures; 5—surveying; 6—transportation; 7—general; 9—architecture.

1510 Elementary Surveying and Measurements (3) Prereq: eligibility for MATH 1550 and credit or registration in CE 1550. Plane surveying, theory of measurements, use of surveying equipment, field and office work for boundary surveys, topographic mapping, construction surveys, and route surveys.

1550 Elementary Surveying Laboratory (1) Prereq: credit or registration in CE 1510. 3 hrs. lab. Laboratory to accompany CE 1510.

2081 Structural Technology—1 (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.

2200 Fluid Mechanics (3) Prereq: CE 2450. Same as ME 2833. Statics and dynamics of continuous liquids and gases; control volume laws; conservation of mass, momentum, and energy; dimensional analysis and similarity; applications to pipe flows, boundary layers, isentropic compressible flow.

2250 Hydraulic Laboratory (1) Prereq: credit or registration in CE 2200. 3 hrs. lab.

2400 Statics (3) Prereq: MATH 1022 or 1023. For students not majoring in engineering. Results and stress in frame systems; equilibrium of beams, trusses, and frames; friction, centroids.

2405 Mechanics of Materials (3) Prereq: CE 2400. For students not majoring in engineering. Stress and strain, bending, torsion, deflections of beams, columns.

2450 Statics (3) Prereq: MATH 1552. Vectorial treatment of resultants and equilibrium of force systems, centroids and centers of gravity, fluid statics, friction.

2500 Elementary Surveying (2) Primarily for those desiring a terminal course in elementary surveying. 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. To accompany CE 2500.

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 in 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.

2051 Intermediate Chinese (5) Spoken and written Chinese; beginning readings; dialog drill in the language laboratory.

2520 Advanced Surveying (3) Prereq: CE 1510 and 1550. For students who wish to meet the requirement of 6 hrs. of surveying to take the Surveyor's Licensing Exam. Higher order surveying, triangulation, state coordinate system, horizontal and vertical curves; earthwork; astronomical observations.

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.

3200 Hydraulics (3) Prereq: CE 2200. Fundamentals of fluid mechanics applied to problems in the field of water; steady and unsteady flow in closed conduits, flow in open channels, measurement of flowing water, and turbo machinery.

3300 Geotechnical Engineering—I (3) Prereq: CE 2200, 3400, and credit or registration in CE 3350. Properties and behavior of soils as engineering materials; origin of soils, structure, strength, and deformation of soil masses; elementary theoretical treatment of consolidation, stability, earth pressure, and bearing capacity.

3350 Geotechnical Engineering Laboratory—I (1) Prereq: credit or registration in CE 3300. 3 hrs. lab. Fundamental properties of soils 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.

3400 Mechanics of Materials (3) Prereq: CE 2450 or equivalent. Credit will not be given for both this course and CE 3405. Stress and strain, torsion, bending, deflections of beams, columns, statically indeterminate problems, combined stress.

3405 Mechanics of Materials (4) Prereq: CE 2450 or equivalent. Credit will not be given for both this course and CE 3400. Stress and strain, torsion, bending, deflections of beams, columns, statically indeterminate problems, combined stress.

3410 Mechanics of Materials Laboratory (1) Prereq: credit (preferably) or registration in CE 3400 or 3405. 2 hrs.
3415 Structural Analysis—II (3) Prereq: credit or registration in CE 3400. Analysis of statically determinate structures; 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 construction and vibration; emphasis on computer utilization.

3400 Principles of Steel Design (3) Prereq: credit or registration in CE 3420. Analysis and design of elements of steel structures, elastic and plastic design, critical comparison of specifications with theory.

4410 Principles of Reinforced Concrete (3) Prereq: CE 3400 and 3415. Working stress and ultimate strength theories as applied to concrete beams (reinforced and prestressed), columns, slabs, and footings; experimental data and current design specifications.

4420 Principles of Prestressed Concrete and Structural Design of Foundations (3) Prereq: CE 3300, 3350, and 4410. Principles in design and analysis of statically determinate prestressed beams as based on the latest code requirements; decision-making and structural design of practical foundation problems such as shallow and deep footings and earth retaining structures.

4425 Principles of Wood Mechanics and Timber Design (3) Prereq: CE 3415 or equivalent. Basic principles of mechanics, elasticity, rheology, and failure as applied to wood; design methods and specifications governing the design of sawn lumber, plywood, and glulam timber structures and structural components.

4430 Structural Engineering (3) Prereq: CE 4400 and credit or registration in CE 3420 and 4410. 2 hrs. lecture; 3 hrs. lab. Fundamental principles applied to planning, analysis, and design of structures in steel, concrete, and wood; structural analysis by computer programming.

4440 Advanced Mechanics of Materials (3) Prereq: CE 3400 or 3405. Mechanics of materials; emphasis on needs of students interested in structural and machine design.

4450 Finite Element Methods (3) Prereq: a course in FORTRAN programming. 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 equivalent. Concepts of stress and deformation; governing field laws, general conservation equations and special cases, i.e., conservation of mass, balance of momenta, and conservation of energy; theory of constitutive equations; applications in elementary elasticity, plasticity, and fluid dynamics.

4500 Geodetic and Photogrammetric Surveying (3) Prereq: CE 1510 and 1550. 2 hrs. lecture; 3 hrs. lab. 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 equivalent. 2 hrs. lecture; 3 hrs. lab. Procedures and laws governing surveying of boundaries.

4560 Engineering Applications of Remote Sensing (3) Prereq: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Photographic and digital image processes related to interpretation, principles, methods, and techniques; engineering applications in materials, land use, energy, hydrology, transportation, geology, geomorphology, and water resources.
4600 Advanced Highway and Traffic Engineering Design (3) Prereq: CE 3600. 2 hrs. lecture; 3 hrs. lab. Traffic engineering studies of intersection, arterial street, and freeway operations; designs for both rural and urban highways, interchanges, and interfaces; preparation of detailed solutions for various design problems; computer applications to design problems.

4610 Introduction to Transportation Planning (3) Prereq: CE 3600. Elementary concepts in the transportation planning process; prediction of future transportation demands, mathematical modeling, and computer applications.

4620 Transportation Engineering (3) Prereq: CE 3600. History, economics, and traffic characteristics of transportation systems; planning, design, construction, maintenance, and operation of air, highway, pipeline, rail, and water transportation facilities—vehicles, guideways, and terminals.

4700 The Analysis and Design of Civil Engineering Systems (3) Prereq: ENGR 2060, MATH 2057, and senior standing. Use of digital computer techniques in analysis and design of civil engineering systems.

4760 Civil Engineering Design (3) 2 hrs. lecture; 3 hrs. lab. Design of civil engineering facilities; feasibility studies for subdivisions, airports, shopping centers, interchanges; other pertinent topics.

4770 Legal and Ethical Practice of Civil Engineering (1) Prereq: senior standing in civil engineering. Civil engineer’s responsibility in the areas of contracts, client relationships, land use controls, specifications, bonds, breach of contracts, and ethics.


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.

7115 Water Quality Management (3) Current environmental engineering topics, with emphasis on water quality; governmental agencies, regulations, and technological limits affecting water and wastewater treatment, solid wastes, hazardous wastes, and air pollution.

7120 Sanitary Engineering Operations and Processes Lab (3) Prereq: CE 4130, 7100, and credit or registration in CE 7110. 1 hr. lecture; 6 hrs. lab. Laboratory and pilot plant studies of water and wastewater treatment processes.

7200 Free Surface Flow (3) Prereq: CE 2200. Natural and artificial open channels; steady and unsteady flow, water surface profiles, channel transitions, hydraulic jump, secondary flow, and application of energy and momentum principles.

7255 Advanced Hydraulics (3) Prereq: CE 2200. Transportation of sediment, mixing current, and other phenomena.

7260 Advanced Hydrology (3) Prereq: CE 4200 or 4250 or equivalent. Hydrologic cycle, including interrelationships between classical and statistical methods of hydrology and new problems caused by waste-resource development; factual and conceptual hydrological evaluation of present practices in public and local development of water resources.

7300 Advanced Geotechnical Engineering—I (3) Prereq: CE 3300 and 3330. Seepage, consolidation, compaction, and shear strength of soils; stress distribution and displacements in soil masses; principles of soil mechanics applied to design problems.

7310 Advanced Geotechnical Engineering—II (3) Prereq: CE 3420 and 7300. Continuation of CE 7300.

7320 Advanced Design and Analysis of Foundations (3) Soils as an engineering material; geotechnics applied to advanced foundation design; design and analysis of various types of foundations, retaining walls, bridge abutments, coffer dams, earth dams, and other pertinent soil structures.

7330 Geotechnical Engineering Seminar (3) Prereq: CE 7310 or equivalent. Geotechnical problems requiring extensive literature research and discussion on testing, theoretical analysis, and decision-making processes in geotechnical work; engineering geology, geophysical techniques, remote sensing, sampling and sample disturbances, in situ testing and data analysis, triaxial and plain strain shear properties of organic soils; methods of settlement analysis, treatment of soft soils, reinforced earth, etc.

7340 Theory and Practice of Geotechnical Experiments (3) Prereq: CE 3300, 3350, and 4300; or equivalents. 2 hrs. lecture; 3 hrs. lab. Theory and practice of laboratory and in situ experimental techniques in geotechnical engineering.

7350 Soil and Foundation Dynamics (3) Theory and practice related to soil-structure systems subject to time dependent loadings; wave propagation in various media, steady state vibration of foundations, measurement of soil parameters, design criteria, analysis and design procedures; effect of earthquakes on soils and foundations.

7400 Statically Indeterminate Structures (3) Prereq: CE 3420 or equivalent. Analysis of statically indeterminate structures by classical and modern methods.

7405 Statically Indeterminate Structures (3) Prereq: CE 7400. Analysis of statically indeterminate structures, non-prismatic members, continuous girders and trusses, multi-story and irregular frames, arches, translational moment distribution, and secondary stresses in trusses.

7409 Advanced Concrete Theory (3) Analysis and design of reinforced concrete structural elements according to ultimate strength and limit design theories; prestressed indeterminate structures, shrinkage, and creep.

7420 Limit Analysis and Design (3) Prereq: credit or registration in CE 7400. Analysis of steel structural behavior beyond elastic limit; design for ultimate load and use of load factors; application of linear programming and other computational techniques to optimization of structures designed by aid of concepts of limit analysis.

7430 Structural Design for Dynamic Loads (3) Prereq: CE 7400. Sources, intensities, and methods of transmission of dynamic loads; response of structural systems to dynamic loading; modern computation techniques.

7435 Advanced Structural Mechanics (3) Prereq: CE 4440 and MATH 2065; or equivalents. Plane stress and plane strain; two-dimensional problems in rectangular and polar coordinates; thermal stresses; laterally loaded plates with various boundary conditions; Navier and Levy-type solutions for rectangular plates; membrane theory of shells and applications; elastic buckling of columns; elastic stability of plates.

7440 Applied Elasticity (3) Prereq: MATH 4016 or ME 4563; and CE 3400 or 3405. May be taken twice for credit. Plane stress and plane strain; two-dimensional problems in rectangular and polar coordinates; strain energy methods; stress, strain, and general theorems in three dimensions.

7450 Energy Principles in Engineering Mechanics (3) Prereq: CE 4400 and credit or registration in MATH 4016 or ME 4563. Principle of virtual work; principle of complementary energy; Castigliano's theorems, Lagrange's equations, and
Hamilton's principle; applications to stress and deflection analysis of beams, trusses, frames, plates, and rings; problems in elastic stability and vibrations.

7455 Finite Element Method in Engineering (3) Prereq: CE 4450. Finite element method as an extended Ritz technique based on variational concepts for continua with applications to heat transfer, flow through porous media, fluid dynamics, elasticity, plasticity, and stability and vibrations of elastic systems.

7460 Theory of Plates (3) Prereq: credit or registration in CE 4440. Laterally loaded plates with various boundary conditions; approximate methods of plate analysis; large deflections of plates; elastic stability of plates.

7465 Design of Plate and Shell Structures (3) Theory of folded plate and thin shell behavior; structural design of plate and shell elements.

7470 Theory of Elastic and Plastic Stability (3) Prereq: credit or registration in CE 7400. Beam columns, elastic and plastic buckling of bars and frames, torsional buckling, lateral buckling of beams, elastic and plastic stability of frames, plate and shell buckling, approximate and special methods, and high speed computation.

7475 Solid Mechanics (3) Prereq: CE 4440 and credit or registration in MATH 4016 or ME 4563. Mathematical approach to statics and dynamics of deformable solids; tensors in curvilinear coordinates and variational calculus used to formulate elasticity and viscoelasticity theory; energy theorems and conservation laws.

7500 Remote Sensing in Engineering Research (3) Prereq: CE 4560. Physical measurements, characteristics of present and future sensors, and laboratory and field instrumentation; computer analysis of spectra data to include classification algorithms, enhancement, calibration, georeferencing, overlay, and data base development; image processing; environmental applications.

7600 Highway Traffic Characteristics and Studies (3) Fundamental nature of highway traffic and methods of measuring traffic characteristics; students perform and analyze limited-scope field studies; characteristics 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 equivalent. 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) 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 equivalent. Actual design problems in highway location and alignment, intersections and interchanges, urban street systems, design balance of freeway and overall systems, interchange spacing, economic analysis, and highway-needs studies.

7640 Urban Transportation Planning (3) Prereq: consent of instructor. Urban transportation planning; computer applications and application of Critical Path Programming (CPM).

7660 Urban Transportation Planning Models (3) Prereq: CE 7640 or equivalent. 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) 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.

7700, 7701 Special Topics in Civil Engineering (3,3) Prereq: consent of instructor. Each course may be taken twice for credit. 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) 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) 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) Comprehensive report with oral defense on subject approved by the major professor.

7750 Seminar (1) All graduate students are expected to enroll every semester. Only one semester hour of credit will be allowed toward degree. Pass-fail grading.

8000 Thesis Research (1-9 per sem.)

8001 Thesis Research in Hydraulic Engineering (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

**COMPUTER SCIENCE (CSC)**

1240 FORTRAN Programming (3) Prereq: credit in MATH 1021 or sufficiently high score on the mathematics placement examination to qualify for MATH 1022 or 1431. Not normally open to students with registration or credit in MATH 1550. Credit will be given for only one of the following courses: CSC 1240, 1241, 2260, 2262, or ENGR 2060. For students in disciplines other than engineering and the physical sciences. Computer programming; examples and exercises from the business area.

1241 FORTRAN Programming (3) Prereq: credit or registration in MATH 1550. Credit will be given for only one of the following courses: CSC 1240, 1241, 2260, 2262, or ENGR 2060. 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/1 and PL/C; machine organization, list and string processing, numerical methods, and compiler construction.

1270 Introduction to COBOL Programming (3) Prereq: MATH 1021 or sufficiently high score on the mathematics placement examination to qualify for MATH 1022 or 1431. 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.

1601 Introduction to Computers and Computer-Assisted Instruction (3) Not for credit for computer science majors. Computer systems for education, available computer educational materials, computer use in elementary and secondary education, motivating students to use the computer, elements of programming.

2105 Data Manipulation (3) Prereq: EE 3770. Not for credit for computer science majors. The representation, logical representation, and manipulation of data; topics include data types, data structures, data structure manipulation, and file structures and their relationship to data structures; a high level block-structured programming language used.

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 1550. 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 1552. 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: CSC 2252, 2 hrs. lecture; 3 hrs. lab. Basic digital circuits; Boolean algebra and combinational logic, data representation and transfer, and digital arithmetic; digital storage and accessing, control functions, input-output facilities, system organization, and reliability; detection and simulation techniques; features needed for multiprogramming, multiprocessoring, and real-time systems; other advanced topics and alternate organizations.

2601 Fundamental Computer Science for Teachers (3) Prereq: MATH 1021 and knowledge of a computer programming language. Not for credit for computer science majors. Structured programming, computer architecture, and other topics suitable for teaching in secondary schools.

3102 Data Structures (3) Prereq: CSC 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; multilinked structures; symbol tables and searching techniques; sorting (ordering) techniques; formal specification of data structures, data structures in programming languages, and generalized data management systems.

3106 Survey of Systems Software (3) Prereq: CSC 2105. Not for credit for computer science majors. General concepts of operating systems and services and systems programming; topics include overviews of computer hardware organization and machine language programming, input/output control and management, high level language interfaces to operating systems, and system software development.

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 CSC 1270. Intended primarily for students in computer science and related disciplines. COBOL programming; its use in business data processing systems.

3456 The Social Impact of Computer Technology (3) Prereq: ENGL 1002 or equivalent. No previous background in computing assumed. Positive and negative effects of modern computing technology on society; possible topics include effects of automation on the labor force, on education needs and techniques, and on solving problems connected with the energy crisis; moral and ethical problems connected with large-scale databases; automated libraries; and the hidden role of the programmer as decision-maker in an increasingly computerized society.

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: CSC 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: CSC 3102. 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.

4103 Operating Systems (3) Prereq: CSC 3102. 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: CSC 4103. Batch process systems programs, their components, operating characteristics, user services and limitations; implementation techniques for parallel processing of input-output and interrupt handling; overall structure of multiprogramming systems on multiprocessor hardware configurations; addressing techniques, core management, file system design and management, system accounting, and other user-related services; traffic control, interprocess communication, design of system modules, and interfaces; system updating, documentation, and operation.

4310 Communications in Computing (3) Prereq: MATH 1552. 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 Microprocessors (3) Prereq: CSC 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 microcomputers; survey of applications.

4330 Programming Methodology (3) Prereq: CSC 3102. Unified treatment of design, development, and maintenance of large-scale programming projects; includes the problem-solving process, planning and management of projects, verification and validation, structured programming, security, and privacy; students participate as part of a team in a large-scale programming project.

4351 Compiler Construction (3) Prereq: CSC 3102 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 Interaction-Graphic Computer-Aided Design See EGR 4255.

4360 Sequential Machines (3) Prereq: CSC 2259. Elementary number systems and codes, switching algebra, combinatorial circuit minimization, sequential machines, finite automata, equivalence of states and machines, reduced machines, and other topics.

4362 Advanced Numerical Methods and FORTRAN (3) Prereq: CSC 2263 or equivalent. Problem solving by digital computer; use of numerical methods in the solution of 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: CSC 1240 or 1241; MATH 2085 or 2090; and IE 4510, QBA 4020, or equivalent. 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.

4402 Introduction to Database Management Systems (3) Prereq: CSC 3102. Knowledge of COBOL is desirable. The three basic models (network, hierarchical, and relational) of database management systems; application of these concepts to specific commercially-available database management systems.

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: CSC 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 problems; 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 1552. 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 3102. 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; 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.

7135 Software Systems Development (3) Prereq: CSC 3102 or equivalent. Concepts of software production, including program design philosophies, man-machine interfaces, programmer management ideas and models, and methods by which programs are demonstrated to be correct, reliable, and secure; emphasis on the study and design of software methodologies; student teams will participate in a large-scale program design and implementation project.
7200 Theory of Computing—I (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.

7201 Theory of Computing—II (3) Prereq: CSC 4890 or 7200 or MATH 7200. Decidable and undecidable computing problems; complexity, intractability, and feasibility of computing problems; gap, compression, and speedup theorems; reducibility of problems; provable properties of complexity of algorithms.

7300 Algorithm Design and Analysis (3) Characteristics of an algorithm; problems of algorithm existence; the design, implementation, and complexity of algorithms; algorithm case studies.

7402 Data Base Management Systems (3) Prereq: CSC 3102 or equivalent. Fundamentals of data base organization; applications in the design and use of management information systems; network, hierarchical, and relational data base models; existing data base management systems; data manipulation and representation; physical organization and data independence; problems of data base security, privacy, and integrity.

7405 Library Information Processing (3) See LIBS 7506.

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.

2040 Technical Drawing, Reading, Sketching, and Takeoff (3) See INED 2040.

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; models developed for construction application.

3110 Soils for Construction (4) Prereq: CE 3082. 3 hrs. lecture; 3 hrs. lab. Engineering properties of soils and their behavior in heavy earth structures; field testing of soils and decision making at construction level; soil exploration, testing, treatment, and stabilization; use of organic soils and shells in construction; drainage and settlement problems.

3171 Mechanical Equipment of Buildings (3) Prereq: PHYS 2002. Type, design, installation, and performance of mechanical equipment used in buildings, including plumbing and air conditioning.

3561 Quantity Surveying, Estimating, and Bidding—I (4) Prereq: CONS 3573. 2 hrs. lecture; 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.

3562 Quantity Surveying, Estimating, and Bidding—II (4) Prereq: CONS 3561 and 3574. 2 hrs. lecture; 6 hrs. lab. Continuation of CONS 3561.

3573 Materials, Methods, and Equipment—I (3) Prereq: CONS 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 3573. Continuation of CONS 3573, with emphasis on both heavy and industrial equipment.

3579 Electrical Installations (3) Prereq: PHYS 2002. Wiring systems for residences and commercial and industrial buildings; illumination and noise-control procedures.

3591 Seminar in Building Construction (3) Prereq: senior standing. Research and reports on special projects.

3592 Special Projects in Construction (3) Prereq: senior standing. May be repeated for a maximum of 6 sem. hrs. if topic differs. Design solutions for construction structures coordinated with construction and erection techniques.

3593 Construction Administration (3) Prereq: credit or registration in CONS 3561. Principles and theory of ownership, organization, contracts, insurance, bonding, and labor relations pertaining to the construction industry.

3594 Commercial Construction Management (3) Prereq: CONS 3593. History, theory, and objectives of construction management; theory and principles of managing value, money, time, procurement, and field operations.

7410 Online Library Systems and Services (3) See LIBS 7607.

7500 System Modeling and Computer Simulation (3) Prereq: CSC 2263 or equivalent. Construction and use of mathematical and computer models; parameter estimation; compartmental models; simulation techniques; applications of simulations; examples and case studies from physical, social, and life sciences, engineering, business, and information sciences.

7560 Computational Methods (3) Prereq: 6 hrs. of math beyond MATH 1552. Computer techniques for root isolation and determination, numerical approximation techniques, numerical integration and differentiation, solution of ordinary and partial differential equations, solution of linear systems of equations, matrix diagonalization, and integral transforms; error analysis, implementation and efficiency measures for algorithms used to solve these problems.

7700 Special Topics in Computer Science (3) May be taken 4 times for credit. Specialized areas of current interest in computer science; one topic per semester; topics may include computer control, large data base management, computers and law, specialized algorithms, microcomputer architecture and application.

8000 Systems Science Thesis Research (1-9)
1107 Introduction to Criminal Justice (3) Overview of the entire criminal justice system, including police, courts, and corrections; emphasis on the dynamic interrelationships between the various elements in the system as well as special problem areas.

1108 Legal Bibliography (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.

2115 Corporate Intelligence Management (3) Corporate intelligence needs, crime prevention, management protection in the nonpublic sector.

2131 Police Process (3) Organization, function, and administrative concerns of police agencies in modern society.

2132 Judicial Process (3) State and federal judicial systems; structure, function, and organization of American courts.

2133 Correctional Process (3) Historical and philosophical background of professional corrections; modern development and relationship with other facets of criminal justice.

2399 Introduction to Criminal Justice Research Methods (3) Logic of inquiry; ethics and politics in research; sampling procedures; various research designs related to the study of crimes, criminals, and the criminal justice process.

3002 Internship—I (3) Prereq: 92 sem. hrs. in the CJ curriculum, 10 hrs. per week. Pass-fail grading. Students assigned to a field study program with a minimum of three different criminal justice agencies representing law enforcement, corrections, juvenile justice, the court system, and/or other agencies professionally involved with the criminal justice system.

3004 Internship—II (3) Prereq: 95 sem. hrs. in the CJ curriculum including CI 3002, 10 hrs. per week. Pass-fail grading. Students assigned to a field study program with a criminal justice or related agency of their choice.

3100 Criminal and Related Law (3) Also offered as POLI 3100. Structure, definitions, elements, and interpretations of the most frequently used sections of the criminal codes.

3101 Rules of Evidence and Procedure (3) Principles and applications of criminal law of evidence and procedure.

3152 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.

3170 Proseminar in Law Enforcement (3) Prereq: CJ 2131. Topics in law enforcement procedures, operations, and agencies.

3212 Community-Based Corrections (3) Rationale, strategies, functions, and organization of community-based correctional programs.

3399 Advanced Topics in Criminal Justice Research (3) Prereq: CJ 2399. Research practices and procedures; topics include quantification and analysis of data, policy implications of research, evaluation research, and special problems of criminal justice research.

3400 Criminal Justice Management: Theory, Practice, Problems (3) Current theory, practice, and problems in the management of police, court, and correctional agencies and institutions; process of supervisory management and role of supervisors in police and correctional organizations.

3401 Criminal Behavior and Personality (3) Theories of the relationship between personality and criminal behavior; criminal behavior as an adaptation to a particular set of circumstances.

3999 Readings in Criminal Justice (3) Prereq: written consent of department head. May be taken twice for credit. Students work under the direct supervision of a faculty member.

4000 Criminal Justice Theory (3) Analytical study of critical issues in criminal justice.

4001 Deviance and the Law (3) Social, political, and legal ramifications of such diverse behaviors and status as homosexuality, prostitution, mental disorders, drug use, crime (as a generic type), organized crime, corporate crime, and political crime; how these forms of deviance are defined and controlled by the legal system.

4010 Juvenile Justice System (3) The evolution, philosophy, and processes of the juvenile justice system; the rights of juveniles, dispositional alternatives, and promising future trends directed at solving some of the system’s current problems.

4133 Criminal Investigation (3) Legal aspects, operational procedures, and technical specialization involved in crime investigation.

4140 Contemporary Correctional Institutions (3) Evolving role of custodial institutions in the American criminal justice system; the effects of changing public policy, court intervention, manpower and management problems, and new developments in custody and treatment technologies on the organization, policy, process, and operation of American custodial institutions.

4999 Independent Study (3) Prereq: written consent of department head. May be taken twice for credit; however, no more than 6 sem. hrs. may be earned in this course and CJ 7700 combined. Selected readings and/or research under the supervision of a faculty member.

7200 Survey of Criminal Justice (3) Law enforcement, the judiciary, and corrections as components of the criminal justice system.

7201 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.

7202 Legal Aspects of Criminal Justice (3) Prereq: CJ 3100 or equivalent. Judicial decision-making in constitutional issues of criminal procedure; extra-legal factors influencing the Supreme Court and the judicial process.

7204 Criminal Justice Research Methodology (3) Research methods in criminal justice; logic of research, research design, sampling, data collection techniques, and analysis.

7205 Criminal Justice Planning, Evaluation, and Policy (3) Prereq: CJ 7204 or equivalent. Criminal justice planning in agencies and institutions; its interface with program evaluation and policy analysis research; use of information systems; related research methodology and current research literature.

7300 Special Problems of Delinquency (3) Problems related to causation and prevention of delinquent careers.

7301 Issues in Juvenile Justice (3)

7302 Juvenile Justice Administration (3) Administrative, management, supervisory, policy, and legal aspects of the American juvenile justice system; includes problems of
manpower training and development, recent court decisions and legal standards, planning, program evaluation, and management strategies related to juvenile courts, community diversion and correctional programs, and institutions.

7400 Special Problems of Police Administration (3) Major problems of modern police administration.

7602 Comparative Criminal Justice Systems (3) Contemporary criminal justice systems in Western European, Communist-block, and Third World nations; includes survey of international crime, world terrorism, and related worldwide criminal justice issues.

7604 Recent Developments in Law Enforcement (3) Seminar in operational techniques and administrative concepts.

7700 Individual Reading and Research in Criminal Justice (3) May be taken twice for credit; however, no more than 6 sem. hrs. may be earned in this course and CJ 4999 combined.

8000 Thesis Research (1-9 per sem.)

CROP PHYSIOLOGY AND WEED SCIENCE (CPWS)

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.

3960 Undergraduate Research in Crop Physiology and Weed Science (1-3) V Prereq: CPWS 3060 or equivalent and consent of instructor. May be repeated for credit for a maximum of 6 sem. hrs. Research experience for students contemplating graduate study in crop physiology or weed science.

4070 Principles of Weed Control (4) F Prereq: CPWS 3060 or equivalent. 3 hrs. lecture; 3 hrs. lab. Principles and practices of weed control in agricultural crops; weed ecology, mechanisms of herbicidal action and selectivity; characteristics and uses of important herbicides.

7061 Plant Growth and Development (3) F Prereq: CPWS 3060 and BCH 4083; or equivalents. Also offered as BOTY 7061. Effects of naturally occurring growth substances and environmental conditions on plant growth.

7063 Plant Metabolism (3) S Prereq: CPWS 3060 and BCH 4083; or equivalents. Also offered as BOTY 7063. Current concepts of major metabolic systems of plants and their control.

CURRICULUM AND INSTRUCTION (EDCI)

1000 Introduction to the Study of Education (3) For education majors only. Credit will not be given for both this course and EDAF 2000. Field experience in multicultural settings in secondary schools. Historical foundations, organization, and administration of American public education.

2025 Foundations and Principles of Teaching in the Elementary School (3) 2 hrs. lecture; 2 hrs. field experience in multicultural settings in elementary schools. Open only to students who are actually enrolled in programs leading to teacher certification.


2045 Principles and Practices in K-12 Programs (4) Prereq: EDCI 1000 and enrollment in a program leading to teacher certification in grades K-12. 3 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Managerial aspects of instruction; application of learning principles to the classroom setting.

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. Students work at least 10 hrs. per week in a selling position in an approved retail selling establishment.

3112 Reading Instruction in the Elementary School (6) Prereq: EDCI 2025; concurrent registration in EDCI 3113 for elementary grades majors. 3 hrs. lecture; 6 hrs. field experience in multicultural settings. Current instructional materials and methods in teaching reading at the elementary school level; 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; concurrent registration in EDCI 3112 for elementary grades majors.

3125 Materials and Methods in Elementary School Science (3) Prereq: EDCI 2025 or equivalent. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3126 Materials and Methods in Elementary School Mathematics (3) Prereq: EDCI 2025 or equivalent. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.
3127 Materials and Methods in Elementary School Social Studies (3) Prereq: EDCI 2025 or equivalent. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3135 Teaching Reading in the Junior and Senior High School (3) Approaches for teaching reading, general review of reading skills.

3136 Reading in the Content Areas (3) Prereq: EDCI 3135 or equivalent. Content area reading problems and solutions; the reading process, approaches, skills, and materials.

3137 Diagnostic-Prescriptive Instruction in Reading (3) Prereq: EDCI 3112. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings. Additional training in reading instruction beyond that offered in the basic reading course, EDCI 3112.

3140 Materials and Methods in Secondary Business and Office Occupations Education (3) Prereq: EDCI 2040 and credit for or registration in 25 of the 28 sem. hrs. required for a teaching minor in typing and bookkeeping or 27 of the 30 sem. hrs. required for a teaching minor in typing and shorthand. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3141 Materials and Methods in Secondary School Distributive Education (3) Prereq: EDCI 2040 and credit for or registration in 27 of the 30 sem. hrs. required for a teaching minor in secondary school distributive education. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3142 Materials and Methods in Secondary School English (3) Prereq: EDCI 2040 and credit for or registration in 21 of the 24 sem. hrs. of English courses required for a teaching minor in secondary school English. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3143 Materials and Methods in Secondary School French (3) Prereq: EDCI 2040 and credit for or registration in 23 of the 26 sem. hrs. of French courses required for a teaching minor in secondary school French. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3144 Materials and Methods in Secondary School Social Studies (3) Prereq: EDCI 2040 and credit for or registration in 21 sem. hrs. of the social studies courses required for a teaching minor in secondary school social studies. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3145 Materials and Methods in Secondary School Latin (3) Prereq: EDCI 2040 and credit for or registration in the Latin courses required for a teaching minor in secondary school Latin. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3146 Materials and Methods in Secondary School Mathematics (3) Prereq: EDCI 2040 and credit for or registration in 17 of the 20 sem. hrs. of mathematics courses required for a teaching minor in secondary school mathematics. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3147 Materials and Methods in Secondary School Science (3) Prereq: EDCI 2040; 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, 2003, 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. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3148 Materials and Methods in Secondary School Speech (3) Prereq: EDCI 2040 and credit for or registration in the speech courses required for a teaching minor in secondary school speech. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3149 Materials and Methods in Secondary School Spanish (3) Prereq: EDCI 2040 and credit for or registration in 23 of the 26 sem. hrs. of Spanish courses required for a teaching minor in secondary school Spanish. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3160 Materials and Methods in Art in Elementary and Secondary Schools (3) Prereq: EDCI 2045 and credit for or registration in 25 of the 31 sem. hrs. of art courses required for a teaching minor in art. 2 hrs. lecture; 2 hrs. lab/field experience in multicultural settings.

3170 Principles of Teaching Elementary School Music (3) Materials, methods, and current trends in teaching music at the elementary school level.

3171 Principles of Teaching Secondary School Music (3) Materials, methods, and current trends in teaching music at the secondary school level.

3181 Materials and Methods in Communicative Disorders in the Elementary and Secondary Schools (3) Prereq: EDCI 2025, completion of all speech courses required in curriculum, and concurrent enrollment in EDCI 3641. Speech, language, and hearing services in the public schools; organization and implementation.

3620 Practicum in Teaching of a Foreign Language in a Foreign Culture (6) Offered by extension in summer only.

3621 Student Teaching in the Secondary School (8) Prereq: see "Requirements for Student Teaching." 2 hrs. lecture; 15 hrs. lab. Pass-fail grading.

3625 Student Teaching in the Elementary Grades (12) Prereq: see "Requirements for Student Teaching." 2 hrs. lecture; 30 hrs. lab. Pass-fail grading.


3635 Student Teaching in the Secondary Grades (12) Prereq: see "Requirements for Student Teaching." 2 hrs. lecture; 30 hrs. lab. Pass-fail grading.

3640 Student Teaching in the Elementary and Secondary Schools (8) Prereq: see "Requirements for Student Teaching." 2 hrs. lecture; 15 hrs. lab. For students majoring in art, health and physical education, music, and speech and hearing therapy. Pass-fail grading.

3641 Student Teaching in Communicative Disorders in the Elementary and Secondary Schools (6) Prereq: see "Requirements for Student Teaching"; concurrent enrollment in EDCI 3181. 1 hr. lecture; 12 hrs. lab. Pass-fail grading.

3660 Materials and Methods in School Library Practice (3) Prereq: EDFA 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." 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)

4113 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.

4600 Practicum in Early Childhood Education (6) Prereq: EDCI 4020 and 4021. 1 hr. lecture; 10 hrs. lab. Practical student teaching experiences for the prospective early childhood educator; includes studying, interacting with, and instructing children ages birth to eight years.

4800 Teaching in the Multicultural Classroom (3) Concepts, strategies, and resources for teaching students with cultural diversity in the content classroom; development of units and activities of cultural variety.

5500 Reading Program Development for the School Administrator (3) Su-E Cannot be substituted for other reading courses in the program. Reading program design in the elementary and secondary schools to assist administrators and supervisors in developing an understanding of a total school reading program.

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.

7040 Foundations of Business Education (3) Prereq: specialization in business education or consent of instructor.

7105 Teaching Reading in the Elementary School (3)

7106 Teaching Reading to Students with Different Language Backgrounds (3) Prereq: ENGL 4010. Characteristics of learners from diverse language settings; analysis of methods and materials which support reading instruction for students with different language backgrounds.

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. Interrelationships between learning skills and content areas; approaches, the reading process, materials, and research related directly to reading in 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 Language 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 Advanced 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; 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.

7426 Linguistic Applications in Reading Instruction (3) Prereq: ENGL 4010, EDCI 7131, 7682, 7683, and either EDCI 7105 or 7135. Theoretical foundations for understanding the application of linguistics in reading instruction.

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.

7812 Seminar: Language Arts Instruction in the Elementary School (3) Prereq: EDCI 7111 and master's degree in education. Theory and research on selected topics in teaching elementary school language arts.

DAIRY SCIENCE (DARY)


1049 Dairy Production Operations and Animal Evaluation (2) F Prereq: credit or registration in DARY 1048. 1 hr. lecture: 2 hrs. lab. Basic production practices with dairy cattle; animal evaluation and identification, milking operations, animal care, fitting and showing.

2075 Milk and Dairy Foods (3) F Product processing techniques and related principles involved in market preparation of milk and dairy foods; emphasis on consumer and processor viewpoints relative to product composition, processing, marketing, sanitation, and related environmental aspects.

2085 Milk Quality Control Laboratory (2) S 4 hrs. lab. Public Health Service lab and inspection procedures for quality control on dairy farms and in milk plants.

2093 Advanced Dairy Products Judging (1) S 2 hrs. lab. A college team is selected from this group. Advanced techniques in judging and evaluating dairy products; emphasis on competitive judging.

3001 Public Health Administration (2) S Prereq: MBIO 2051 or equivalent. Organization and administration of national, state, and local public health agencies.

3040 Techniques of Judging and Evaluating Dairy Cattle (1) S Prereq: DARY 1048. 2 hrs. lab. Emphasis on the combined use of descriptive type and performance indexes in dairy cattle evaluation.

3049 Advanced Topics in Dairy Science (3) F,S Prereq: senior standing and consent of department head. Topics from production or manufacturing areas.

4010 Applied Dairy Cattle Nutrition (3) S 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."

4021 Fermented Dairy Foods (3) F Prereq: MBIO 2051. 2 hrs. lecture; 2 hrs. lab. Principles and processes involved in the manufacture of various types of cheese and other cultured dairy foods.

7821-7822 Problems in Curriculum and Instruction (2-4, 2-4) For advanced graduate students who are qualified to undertake individual problems.

7824 Elementary School Curriculum (3) Content, organization, and evaluation of the elementary school curriculum.

7825 Secondary School Curriculum (3) Content, organization, and evaluation of the secondary school curriculum.

7830 Advanced Seminar in Junior High/Middle School Instruction (3) For advanced students in elementary and secondary education with special interest in the instructional program for early adolescents.

7844 Creativity in Early Childhood Education (3) Role of creativity in designing the educational environment for young children; philosophy, teaching techniques, and instructional planning; role of parents, teachers, and today's multicultural society in the development of creativity.

8000 Thesis Research (1-9 per sem.)
9000 Dissertation Research (1-9 per sem.)
relationship between animal and microflora; laboratory involves forage evaluation and effects of various feed additives, metabolites, and antimetabolites.

7091 Advanced Dairy Seminar (1) F,S May be taken 4 times for credit.

7094 Seminar in Nutrition (1) S Same as ANSC 7094, FDSC 7094, HEC 7094, PLSC 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.)

ECONOMICS (ECON)

1010 Development of the Economic System in the United States (3) Credit will not be given for both this course and ECON 4010. Open only to Junior Division students. Major forces of the American economic system from colonial times to the present; forces leading the U.S. into internationalism.

1050 The Economics of Social Issues (3) Open only to Junior Division students; cannot be substituted for ECON 1010, 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.

2020 Economic Principles and Problems (Continued) (3) Prereq: ECON 2010. Credit will not be given for both this course and ECON 2030. Continuation of basic economics; theories of production, determination of prices in regulated and unregulated industries, functional distribution, international economics, and problems of economic development.

2030 Economic Principles (3) 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.

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.

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.

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.

4015 Marxist Economics (3) Prereq: ECON 2010 and 2020; or 2030. Analysis of Marx’s economic theory and critique of capitalism; survey of contribution of radical economic theory since Marx.


4030 Economic Development in Latin America (3) Prereq: ECON 2010 and 2020; or 2030. Problems and policies of poor countries; emphasis on Latin America.


4050 Economic Development of Europe (3) Major elements in the economic development of resources, transportation, marketing, finance, labor, and economic policy.

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.

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.

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.

4320 The Economics of Population and Environment (3) Prereq: ECON 2010 and 2020; or 2030. Process 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.

4325 Applied Resource Economics (3) Prereq: ECON 2010 and 2020; or 2030. Economic analysis of environmental and resource problems; cost-benefit and other empirical techniques applied to an examination of these problems.

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; principles and problems of transport regulation.

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.

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.

4440 The Economics of Government Regulations (3) Prereq: ECON 2010 and 2020; or 2030. The economic bases, policies, and consequences of government regulation of economic activity.

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.

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.

4520 International Economics (3) Prereq: ECON 2010 and 2020; or 2030. Theory and policy of international trade and finance.

4540 Business Cycles and Forecasting (3) Prereq: ECON 2035 or 3500. Nature and causes of business cycles; practical application of methods used to forecast business trends.

4550 International Finance (3) Prereq: ECON 2035 or equivalent. International trade theory and practice; foreign exchange rates, instruments, and markets; alternative international currency systems and proposals for reform; the economics of currency and financial instrument futures markets.

4560 Central Banking and Monetary Policy (3) Prereq: ECON 2035 or 3500. History, economic functions, operating techniques, and policies of central banks; the role of monetary policy in promoting economic stability and growth; the Federal Reserve System and current problems of monetary policy and control.

4610 Introduction to Mathematical Economics (3) Prereq: ECON 2010 and 2020, or 2030; and college algebra; or equivalents. Not normally open to students who have had differential calculus. Mathematical techniques used by economists; their application to economic analysis.

4630 Introduction to Econometrics (3) Prereq: ECON 2010 and 2020, or 2030; MATH 1031 or equivalent; and QBA 2000 or equivalent. Not open to students with credit in ECON 7630. For students interested in a basic knowledge of econometrics. Techniques of econometrics; emphasis on estimating the basic linear model and hypothesis testing; empirical illustrations by reference to contemporary economic questions.

4710 Aggregate Economic Analysis (3) Prereq: ECON 2035 or 3500 or equivalent. Factors determining aggregate level of national income and employment; both classical and Keynesian static models developed.

4720 Intermediate Microeconomic Theory (3) Prereq: ECON 2010 and 2020; or 2030. Price determination, resource allocation, and pricing in a market economy.

4730 The Evolution of Economic Thought (3) Leading economic theorists who have influenced economics as a body of scientifically developed propositions.

5700 Macroeconomic Analysis and Issues (3) Open only to students in the M.B.A. program. Forces determining the magnitude of such variables as aggregate volume of an economy's output, volume of resource employment, size of national income, and general price level; emphasis on contemporary macroeconomic problems.

6500 Workshop on Economic Education (3) Su only For teachers with little or no previous training in economics. Basic economic principles and their application to the nation's current economic problems.

6550 Special Topics in Economic Education (1-3) May be repeated for credit for a maximum of 6 sem. hrs. Discussion of specific economic topics; teaching materials and techniques used to integrate these topics into school curricula.

7070 Theory of Economic Growth (3) Theories of economic growth and their development.

7130 Public Finance and Taxation (3) Analysis of incidence and output effects of budget policy; emphasis on taxation.
systems, and matrix algebra, determinants, and roots; applications, but primarily emphasis on mathematical principles for studying economics.

7630 Econometric Methods (3) Prereq: calculus and linear algebra, or concurrent enrollment in ECON 7610. For students interested in developing research skills in econometrics. Empirical research methods in economics; review of statistical inference; regression techniques applied to a general linear model; problems involved in regression analysis; extensions of the general linear model.

7631 Econometric Theory (3) Prereq: ECON 7630 and either ECON 7610 or differential calculus and linear algebra. Emphasis on the pure theory of econometrics; properties of estimators, small sample properties of ordinary least squares, hypothesis testing and restricted least squares, asymptotic distribution theory, generalized least squares, and simultaneous equations.

7632 Applied Econometrics (3) Prereq: ECON 4710, 7630, and 7720. Techniques and problems in formulating and empirically estimating theoretical economic relationships; topics include consumption, demand functions, investment, inventories, production, macroeconomic models, and forecasting; emphasis on the interaction between economic theory and econometric techniques.

7710 Macroeconomics— I (3) Prereq: ECON 7610 or equivalent. Static models of income, employment, and prices; models include classical, neo-Keynesian, and monetarist; models focus on demand and supply sectors.

7715 Macroeconomics—II (3) Prereq: ECON 7710. Dynamic models of the economy; includes growth models, business cycle dynamics, and wage-price dynamics.

7720 Price Analysis (3) Prereq: ECON 7610 or equivalent. Theories of utility, demand, cost, production, factor pricing, and welfare.

7725 Advanced Microeconomic Theory (3) Prereq: ECON 7610 and 7720; or consent of instructor. Advanced price theory topics; capital theory, general equilibrium, distribution theory, market structures.

7740 History of Economic Thought—The Classical Period (3) Development of economics as an autonomous science; Greek, Judeo-Christian, and enlightenment approaches to economic phenomena; special attention to Adam Smith.

7750 History of Economic Thought—Modern Period (3) Development of economics from 1800 to 1900; emphasis on the classical followers of Smith, Marx, 19th-century positivism and socialism, the marginal revolution.

7760 Managerial Economics (3) Practical applications of microeconomic theory; demand forecasting techniques, cost estimation, and analysis of market structures.

7799 Seminar in Advanced Economic Problems (3) May be taken twice for credit.

8000 Thesis Research (1-9 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.
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.


2230 Electronics—I (3) Prereq: EE 2120. Internal physical behavior and characterization of semiconductor devices and circuits.

2231 Electronics Laboratory—I (2) Prereq: concurrent registration in EE 2230. 1 hr. lecture; 2 hrs. lab.

2720 Digital Logic—I (3) Basic concepts of the Boolean algebra and their applications in switching networks; switching functions; switching expressions and their manipulations; minimization methods, logic gates, and analysis and synthesis of combinational logic networks; design examples such as half and full adders, multiplexers, demultiplexers, encoders, and decoders; different families of basic memory elements.

2950 Comprehensive Electrical Engineering (3) Prereq: PHYS 2102 or equivalent. For students not majoring in electrical engineering. Elementary circuits, devices, and systems in electrical engineering.

3050 Senior Seminar (1) Prereq: senior standing. Student papers on topics of current interest in electrical engineering.

3060 Special Projects (2) Prereq: consent of department. Pass-fail grading. Individual work with instructor on special project selected by instructor and student to satisfy mutual interests.

3120 Linear Systems Analysis (3) Prereq: EE 2120. Methods of solution of linear electrical and mechanical systems.

3220 Electronics—II (3) Prereq: EE 2130, 2230, and 2231. Analysis and design of electronic circuits; emphasis on semiconductor devices.

3221 Electronics Laboratory—II (2) Prereq: concurrent registration in EE 3220. 1 hr. lecture; 2 hrs. lab.

3320 Electric and Magnetic Fields (3) Prereq: MATH 2057. Basic electromagnetic theory including formulation of Maxwell's equations; vector notation.


3420 Electromagnetic Energy Conversion (3) Prereq: EE 2130. Fundamentals and basic analysis of power transformers and rotating electric machinery.

3430 Power Systems Analysis (3) Prereq: EE 3420. Power systems during fault conditions; per-unit values and method of symmetrical components.

3431 Electrical Engineering Laboratory (2) Prereq: concurrent registration in EE 3430. 1 hr. lecture; 2 hrs. lab.

3510 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.

3720 Digital Logic—II (3) Prereq: EE 2230 and 2720. Mealy and Moore models for finite state machines; analysis and synthesis of synchronous and asynchronous sequential machines; practical design considerations such as various logic families, races and cycles, and hazards.

3721 Digital Logic Design Laboratory (2) Prereq: EE 2231 and concurrent registration in EE 3720. 1 hr. lecture; 2 hrs. lab. Familiarization with conventional logic gates and flip-flops; design and testing of various combinational and sequential digital systems.


3950 Electronics (2) Prereq: EE 2950. For students not majoring in electrical engineering. Basic electronics and instrumentation.

3951 Electrical and Electronics Laboratory (2) Prereq: EE 2950. 1 hr. lecture; 2 hrs. lab. For students not majoring in electrical engineering. Basic electrical and electronics laboratory.

4000 Special Topics in Electrical Engineering (3) May be taken twice for credit when topics vary. Students majoring in curricula other than electrical engineering should consult the instructor. Selected topics of current interest in electrical engineering.

4120 Network Analysis (3) Prereq: EE 3120 and MATH 2057. Linear networks, with introduction to filters and network synthesis.

4130 Graph Theory (3) Prereq: EE 3120 or equivalent. Graph and subgraph properties, graph operations, enumeration techniques, and applications to analysis and synthesis of electric networks; Kirchhoff's third and fourth laws.

4150 Digital Signal Processing (3) Prereq: EE 3120 or equivalent. Fundamentals of processing signals by digital techniques; application to practical problems; z-transforms, discrete Fourier transform, digital filter design techniques, and fast Fourier transform.

4220 Waveform Generation and Processing (3) Prereq: EE 2231 and 3220. 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.

4230 Solid State Devices (3) Prereq: EE 2230. Semiconduc-
tor physics and electronic properties of devices; concepts related to modern electronic applications.

4240 Linear Circuit Design (3) Prereq: EE 3220 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.

4320 Microwave Engineering (4) Prereq: EE 3330. 3 hrs. lecture; 3 hrs. lab. Microwaveguides, cavities, signal sources, and other microwave devices.

4330 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.

4420 Advanced Electromechanical Energy Conversion (3) Prereq: EE 3420 or equivalent. Generalized electric machinery theory; dynamic, transient, and steady-state behavior of balanced/unbalanced excited converters.

4430 Power System Design (3) Prereq: EE 3430 or equivalent. 2 hrs. lecture; 3 hrs. lab. Design criteria for power systems including load flow, economic operation, and stability.

4450 Transmission and Distribution Systems (3) Prereq: EE 3430 or equivalent. Special problems in power transmission and distribution systems; emphasis on applications.

4580 Topics in Control System Design (3) Prereq: EE 3510. Industrial type controllers and control systems; includes modeling and simulation of physical processes and basic techniques for parameter identification; linear and two-
position industrial controllers, phase plane analysis, and describing function techniques; design of cascade and multivariable control systems.

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 Process in Engineering (3) Prereq: EE 3120 or equivalent. 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.

4700 Special Topics in Computer Engineering (3) May be taken twice for credit when topics vary. Students not in the computer engineering option should consult the instructor. Selected topics of current interest in computer engineering.

4710 Communications in Computing (3) See CSC 4310.

4730 Structure and Design of Digital Computers (3) Prereq: EE 3720. Introduction to the design of digital computers through study of the important hardware concepts of digital systems including logical functions of hardware components, machine organization, register-transfer level of digital systems, control strategies, and memory and peripheral devices.

4750 Digital Systems (3) Prereq: EE 3720 and 3721. 2 hrs. lecture; 3 hrs. lab. Theory and design of digital systems.


4790 Structure of Computers and Computations—I (3) Prereq: CSC 3105 and EE 4730. Basics of hardware and software complexity analyses; structures of both computers and computations.

7000 Advanced Topics in Electrical Engineering (3) May be taken three times for credit when topics vary. Topics determined by instructor's interests and latest developments in electrical engineering; typical topics include communications, controls, electronics, fields, networks, power, systems, and instrumentation.

7091, 7092 Electrical Engineering Research (3, 3) Prereq: completion of 12 sem. hrs. in the graduate program. Individual study.

7110 Network Analysis and Synthesis (3) Prereq: EE 3120 or equivalent. Fundamentals of network analysis and synthesis, network graph theory, state variable representation of networks, computer-aided analysis and design.

7120 Linear Active Network Analysis and Synthesis (3) Prereq: EE 3120 or equivalent. Special techniques of active network analysis and design, multiport networks, pathologic elements, inductorless filter theory.


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; non-equilibrium process; 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.

7250 Semiconductor Power Devices (3) Operation and characteristics of silicon power devices with emphasis on physical mechanisms involved; fabrication of power devices; selected applications.

7310 Electromagnetic Theory and Techniques (3) Electromagnetic theory applied to radio propagation, waveguides, and microwave systems.

7350 Boundary Value Problems in Engineering (3) Prereq: consent of department chairman. Separation of variables method for solving certain classical partial differential equations, including properties of special functions and their applications to engineering problems.

7410 Analysis of Faulted Power Systems (3) Detailed development of positive, negative, and zero sequence parameters of power system components and their application in a variety of power system fault conditions.

7420 Power System Dynamics (3) Modern approach to power system transient and dynamic stability studies; topics include synchronous machine simulation, linear models of synchronous machines, excitation systems, and multimachine system stability.

7430 Power System Planning (3) The overall process of power system planning including load forecasting, generation system reliability analysis, generation system cost analysis, power flow analysis, and transmission reliability analysis.

7440 Power Transmission by Direct Current (3) Analysis of HVDC transmission systems; topics include converter circuits, bridge converters, modeling and control of DC transmission, misoperation of converters, protection, harmonics, and filters.

7450 Power System Protection (3) Identification of conditions requiring protection; special problems associated with protection of various system components; protection devices, their selection and application.

7510 Advanced Control Systems (3) Prereq: EE 3510 or equivalent. State variable and function analytical methods for study of discrete and continuous time systems; canonical forms, controllability, observability, and system identification; design of state variable feedback controls and state observers; optimal regulator problems.

7520 Optimal Control Theory (3) Prereq: EE 7510 or equivalent. Dynamic optimization applied to control systems; minimum principle, Hamilton-Jacobi-Bellman theory, dynamic programming, gradient algorithms, and functional analytic methods.

7540 Optimization of Stochastic Dynamic Systems (3) Prereq: EE 7510 and either EE 4640 or its equivalent. Kalman filters, the optimal estimation problem, optimal
control problem, and separation principle of optimal stochastic control theory; Kalman filters, diffusion models, nonlinear filtering, optimal control discrete-time and continuous-time stochastic systems.

7560 Topics in Modern System Science (3) Prereq: EE 7510 or equivalent. Topics from the research literature, operator theory applied to engineering problems; resolution spaces, causality theory, polynomial systems; application to optimal control and sensitivity problems.

7570 Nonlinear System Analysis (3) Prereq: EE 7510. A systems approach to study of nonlinear systems; includes limit cycles, analytical approximation methods, singular perturbations, describing functions, Liapunov’s stability, Lure’s problem, Popov criteria, and input-output stability.

7580 Computer Process Control (3) Prereq: EE 4580. Theory and equipment for the implementation of computer-based control systems; includes supervisory, DDC, and hierarchical configurations, process and operator interface, real-time operations, industrial computer control systems; implementation of advanced control algorithms, time series analysis, and on-line process optimization.

7610 Communication Engineering (3) Random waveforms, optimal receivers, efficient signaling for message sequences, coded systems, channel models, waveform communications.

7620 Data Communication (3) Prereq: EE 4620 or equivalent. Digital coding of information, transmission requirements, modulation schemes, synchronization, equalization, adaptive receivers, data compression.

7630 Detection and Estimation Theory (3) Prereq: EE 4640 or equivalent. Hypothesis testing, detection of known and unknown signals, estimation of signal parameters, signal resolution.

7640 Information Theory, Coding, and Cryptography (3) Measures of information, channel capacity, Shannon and Huffman coding, rate-distortion theory, linear codes, cyclic codes, BCH and Goppa codes, convolutional codes, problems of data security, probabilistic ciphers, computational complexity ciphers.

7650 Computer Communications (3) Prereq: EE 7620 or equivalent. System design, optimal file allocation, scheduling, queuing and delays in time-shared systems, interfacing, asynchronous TDM, the ARPA network, the Aloha system.

7700 Advanced Topics in Computer Engineering (3) May be taken three times for credit when topics vary. Topics determined by instructor’s interests and latest developments in computer engineering; may include microprocessors, computer hardware, digital communications, digital systems, networks, software engineering.

7710 Advanced Digital Logic (3) Mathematical foundations of Boolean algebra; includes vector switching functions, Boolean differential calculus, and fault detection.

7720 Digital System Architecture (3) Computer architecture including modern pipeline and parallel systems; specialized processing systems including display, array, and image processing systems; issues in software design including portability.

7730 Image Analysis—I (3) Prereq: EE 3120 or equivalent. Basic fundamentals and techniques of digital image processing; topics include hardware and software, applications, 2D transforms, preprocessing, texture analysis, and edge detection; emphasis on application of theory to practical problems.

7740 Image Analysis—II (3) Prereq: EE 4640 and 7730. Continuation of EE 7730; formal mathematical treatment of image segmentation, shape analysis, texture analysis, and scene analysis.

7750 Machine Recognition of Patterns (3) Prereq: EE 4640 or equivalent, and knowledge of programming language. Decision functions; Bayesian decision theory; cluster analysis; design of deterministic, stochastic, and fuzzy classifiers; unsupervised learning; feature selection; and other topics.

7760 Reliable Design of Digital Systems (3) Test generation for combinational and sequential circuits, self-checking circuits, fault tolerant design, design for testability, and topics in LSI testing.

7780 Software Design Principles (3) Prereq: EE 3770 or equivalent. Engineering approach to computer software development; structured and modular programming concepts; software design and management; program testing and correctness proofs; diagnostic tools; software measures; other topics from software engineering.

7790 Structure of Computers and Computations—II (3) Prereq: EE 4790. Mathematical treatment of space and time complexity of computations; formal models of computers and computations.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

ENGINEERING (ENGR)

1049 Engineering, Man, and Energy (3) Also offered as ENVS 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 1550 or equivalent. 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) Su only. Prereq: consent of instructor. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participating in the summer program. Also offered as AGE 3249-3250, CHE 3249-3250, and ME 3249-3250. Selected engineering problems in an industrial environment.

3110 Environmental Management Laboratory (3) 1 hr. lecture; 4 hrs. lab. Pass-fail grading. Also offered as ENVS 3110. Students assume roles of politicians, planners, industrialists, developers, pollution control officers, news reporters, and pressure groups. In a simulated environment, students interact, make decisions required of their particular role, and observe results with the aid of computer simulation of an urban area.

4111 Environmental Engineering—I (3) Also offered as ENVS 4100. Interactions between man and the physical world.

4149 Design of Environmental Management Systems (3) See ENVS 4149.
4152 Ocean Engineering (3) Prereq: PHYS 2102. Engineering designs and systems in the ocean environment.
7999 Report Investigation (1-10 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 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, definition, 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.

2185 Automated Graphics for Designers (3) Prereq: EGR 1240 or equivalent, and eligibility for MATH 1550. 2 hrs. lecture; 3 hrs. lab. Also offered as ARCH 2173. Use of automated graphical techniques in design and design communication.

3105 Piping Drafting (2) Prereq: EGR 1001. 6 hrs. lab. Development and layout of piping systems applicable to petrochemical industry; plans, elevations and sections of piping arrangements; single-line and double-line drawings and pictorials; industrial standards and symbols including safety requirements recommended by the American National Standards Institute.

3151 Geometric Systems (3) Prereq: EGR 2154 and consent of department. 1 hr. lecture; 4 hrs. lab. Application of mongeaz 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.

4152 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.

4153 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; explored views and methods of shading; patent drawings; design of monograms and colophons; survey of reproduction methods.

4243 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.

4255 Applied Interactive-Graphic Computer-Aided Design (3) Prereq: EGR 1001 and 2154; or equivalents. Also offered as CSC 4355 and ME 4253. Interactive graphic techniques used to solve engineering design and data retrieval problems.

**ENGLISH (ENGL)**

Students who are not exempt will be required to pass one, two, three, or four freshman composition courses. Placement level depends on ACT scores, the diagnostic theme, and any prior college credit. 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 international students, or approved transfer credit) is required of all students and is prerequisite to all other English courses.

0001 English Composition (3) For students whose diagnostic tests indicate the need for intensive work in basic writing skills. Not for degree credit. For continuing education students only, unless by special permission.

0003 English Composition (5) For students whose diagnostic tests indicate the need for intensive work in basic English skills. Pass-no credit grading. Not for degree credit. Writing the sentence 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 for all international students (graduates, undergraduates, and transfer students) who are not excused on the basis of the placement examination required of every new international student.

0006 English Composition (5) Prereq: ENGL 0003 or placement by Department 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 0001 or 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, ENGL 1003, is also available. Introduction to writing persuasive, evaluative, and other forms of argumentative discourse.

1003 HONORS: English Composition (3) Same as ENGL 1002, with special honors emphasis for qualified students.

1004 English Composition (3) Prereq: ENGL 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 for all international students (graduates, undergraduates, and transfer students) who demonstrate on the placement examination need for work in English, but not at the intensive level of ENGL 0004.

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.

2012 English Usage (3) Problem areas of grammar, pronunciation, and vocabulary; language change and contemporary variation, the role of dictionaries, and the relationship of aesthetic prejudices and social attitudes to matters of usage.

2020 A Survey of English Literature from the Beginning 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.

2423 Introduction to Folklore (3) Also offered as ANTH 2423. Folklore genres of the world; the sources of folklore; literary, psychological, sociological, anthropological, and historical approaches to folk material; relationships between folklore and written literature.

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 departmental faculty direction.

2925, 2927, 2929 HONORS: Independent Work for Honors Students (1, 1, 1) Prereq: sophomore standing, completion of ENGL 2021 and 2023 or 2026 and 2028 with a grade of "B" or better, and a gpa of at least 3.00 in all work taken. May not be taken by students who have already completed ENGL 2920, 2921, 2922. Reading, conferences, and reports under departmental faculty direction.

3000 HONORS: Honors Thesis (3) Conclusion of the English honors program; for details, consult the department.

3015 Composition Tutoring (3) Prereq: consent of instructor. 1 hr. lecture; 6 hrs. lab. Composition theory as applicable to undergraduate tutoring.

3033 Satire (3) Reading and analysis of satiric literature, chiefly English and American; 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
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.

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.

4475 American Folklore (3) Also offered as ANTH 4475. 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.

4480 Folklore and Literature (3) The interrelationships between folklore and literature—the use of the folklore by writers; the similarities and differences between "oral literature" and "written literature."

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)

7916 Composition Theory and Practice (3) Modern rhetorical theory as it relates to the teaching of written composition.

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)

7925 History and Theories of Composition (3) Historical development of the western rhetorical tradition as it affects written discourse; the philosophical and practical aspects of theories of discourse as they shape our understanding of writing and the composition process.

7934* Studies in Middle English (3)

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 individual readings guided by the graduate faculty.

9000 Dissertation Research (1-9 per sem.).

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**ENTOMOLOGY (ENTM)**

2001 Introductory Entomology (3) F, S 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.

3001 Forest Entomology (3) S Prereq: ZOOL 1001, 1002; or BOTY 1001, 1002; or BIOL 1001, 1002, 1003, 1004. 2 hrs. lecture; 2 hrs. lab.

4001 Household and Structural Pests (3) F Prereq: ENTM 2001. 2 hrs. lecture; 2 hrs. lab. Recognition, biology, and management of pests found in structures.

4002 Veterinary Entomology (3) S Prereq: ENTM 2001. 2 hrs. lecture; 2 hrs. lab.

4003 Medical Entomology (4) F Prereq: ENTM 2001 or equivalent. 2 hrs. lecture; 4 hrs. lab. Relation of insects and other arthropods to human disease.

4005 Insect Taxonomy (4) F Prereq: ENTM 2001. 2 hrs. lecture; 6 hrs. lab.


4007 Arthropod Pest Management (6) Su only Prereq: ENTM 4006. Registration for graduate credit by consent of department head. 24 hrs. lab. 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 damage, and control of

*May be taken twice for credit when topics vary.
key pests in sugarcane, soybeans, and cotton; field trips to acquaint students with other major pest problems in the state.

4009 History of Biology (2) S Prereq: senior standing or consent of instructor. Also offered as ZOOL 4190.

4010 Biological Control (3) S-O Prereq: ENTM 2001 or equivalent. 2 hrs. lecture; 3 hrs. lab. Practice and theory of biological control of insect pests and weeds.

4011 Biology and Management of the Honey Bee (3) S Prereq: ZOOL 1001, 1002; or BOTY 1001, 1002; or BIOL 1001, 1002, 1003, 1004 or consent of instructor. 2 hrs. lecture; 2 hrs. lab. Behavior, genetics, pollination, pathology, and practical management of honey bees for agricultural and scientific purposes.


4013 Aquatic Entomology (3) S-E Prereq: ENTM 2001 or equivalent. 2 hrs. lecture; 2 hrs. lab. Biology, ecology, classification, and importance of aquatic insects.

4014 Insect Morphology (3) S Prereq: ENTM 2001 or equivalent. 2 hrs. lecture; 3 hrs. lab.

4015 Insect Physiology and Insecticide Toxicology (4) S Prereq: ENTM 2001 and organic chemistry. 3 hrs. lecture; 3 hrs. lab.

7001 Principles of Insect Population Ecology (3) S-O Prereq: ENTM 2001, ZOOL 4153, or equivalent. 2 hrs. lecture; 3 hrs. lab.

7002 Plant Resistance to Arthropods (4) F-O Prereq: 9 sem. hrs. of entomology or equivalent. 2 hrs. lecture; 4 hrs. lab.

7004 Systematics (3) V Prereq: ENTM 4005 or equivalent. 2 hrs. lecture; 2 hrs. lab. Modern practices and underlying theories of biological systematics.

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.

1049 Engineering, Man, and Energy (3) See ENGR 1049.

1200 Field Course in Environmental Studies (3) Prereq: ENVS 1000 or equivalent. 1 hr. lecture; 4 hrs. lab. Field trips, site visitations, and lectures to delineate typical environmental quality problems and their solutions; industrial plants, municipal treatment facilities, river control structures, waste disposal sites, and critical ecosystem types included; environmental engineers at facilities visited describe problems and solutions; guest lecturers conduct specialized classes and field trips, and review, analyze, and place in perspective problems and solutions encountered by students.

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.

3110 Environmental Management Laboratory (3) See ENGR 3110.

4000 Environmental Engineering—I (3) See ENGR 4111.

4101 Environmental Chemistry (2) See CHEM 4150.

4141 Radioecology (3) F 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 tradeoffs, 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.

**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.

**EPIDEMIOLOGY AND COMMUNITY HEALTH (ECH)**

7301-7302 Principles and 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. Ecologic and epidemiologic concepts used in study of diseases in populations; introduction to epidemiologic methods, with laboratory exercises emphasizing problem solving; epidemiologic principles applied to disease control; planning, administration, and evaluation of disease-control programs.

7303 Applied Veterinary Preventive Medicine (5) Prereq: ECH 7301, 7302, and consent of instructor. 3 hrs. lecture; 6 hrs. lab. Principles of epidemiology and disease control applied to planning, administration, and evaluation of veterinary preventive medicine practice.

7304 Clinical Epidemiology in Companion Animal Practice (3) Prereq: consent of instructor. Epidemiologic principles and disease control methods applied to companion animal practice; problem-oriented case studies on relation of patient and client to community.

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; epidemiologic principles applied 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.

7307 Project Management (2) Prereq: EXST 7005 or equivalent. 1 hr. lecture; 2 hrs. lab. Definition of aims and objectives in field research and investigations, financial and personnel management, communication of intentions and results, internal project control, liaison with other agencies, community acceptance, operational research, and organizational methodologies.

7308 Veterinary Economics (2) Prereq: AGEC 4015 or 4088 or equivalent. 2 hrs. lecture; 1 hr. lab. Application of economic analysis to farm and national livestock disease problems, analysis of existing and past programs, and forecasting of projected animal health schemes.

**EXPERIMENTAL STATISTICS (EXST)**

2055 Introductory Statistical Theory (3) Su Prereq: MATH 1350. Elementary treatment of concepts in statistical theory; includes probability, one- and two-dimensional random variables, expected values, and distributions.

2095 Introduction to Scientific Sampling (3) F,S Prereq: MATH 1021 or equivalent. 2 hrs. lecture; 2 hrs. lab. Concept of sampling; requirements for a valid sample, simple random sampling, stratified sampling, systematic sampling, cluster sampling, and other selected sampling techniques.

2201 Introduction to Statistical Analysis (4) F,S See SOCL 2201.

4001 Statistical Methods (4) F,S Prereq: MATH 1021 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will not be given for both this course and EXST 4011. Statistical notations, statistical inference, simple analysis of variance and variance components, and linear correlation and regression.

4011 Statistical Analysis (3) S Prereq: MATH 1015 or equivalent. 2 hrs. lecture; 2 hrs. lab. Credit will not be given for both this course and EXST 4001. Primarily for students in landscape architecture. Introduction to measures of central tendency and variation, hypothesis testing, point and interval estimation, measures of association, simple regression and correlation, and simple analysis of variance.

4055 Probability and Statistics (3) F Prereq: MATH 2057 or equivalent. Probability, random variables, discrete and continuous distribution functions; expected values, moment generating functions; functions of random variables.

4063 Field-Plot Technique (4) S See AGRO 4063.

4085 Seminar in Statistics (1) F,S,Su Prereq: consent of instructor. May be repeated for credit when topics vary. Topics not covered in other experimental statistics courses.

7003 Statistical Inference— I (4) F,S 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EXST 7003, 7004, 7005. Special emphasis on social and behavioral sciences research problems. Basic concepts of statistical models and sampling; descriptive and inferential methods; normal, t, chi-square, and F distributions; tests of hypothesis and estimation, analysis of variance, correlation, regression, and nonparametric chi-square tests.

7004 Experimental Statistics—I (4) F,S 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EXST 7003, 7004, 7005. Special emphasis on laboratory-oriented sciences research problems. Basic concepts of statistical models and use of samples; measures of variation and central tendency; normal, t, chi-square, and F distributions; test of hypothesis, analysis of variance, regression, and correlation.

7005 Statistical Techniques—I (4) F,S 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EXST 7003, 7004, 7005. Special emphasis on field-oriented life sciences research problems. Basic concepts of statistical models and sampling methods, descriptive statistical measures, distributions, tests of significance, analysis of variance, regression, correlation, and chi-square.

7011 Nonparametric Statistics (3) F Prereq: EXST 7003 or 7004 or 7005 or equivalent. Nonparametric one- and two-sample location and distribution tests including binomial, chi-square, Kolmogorov-Smirnov, Mann-Whitney U, Wilcoxon; analyses of variance including Cochran's Q, Kruskal-Wallis, Friedman; correlation and regression including Kendall's tau, Spearman's rho, and point biserial.
7013 Statistical Inference—II (4) F,S Prereq: EXST 7003 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EXST 7013, 7014, 7015. Special emphasis on social and behavioral sciences research problems. Analyses of variance and experimental designs; emphasis on completely randomized and complete block designs; arrangements of treatments; covariance analysis; multiple and curvilinear regression techniques with introduction to factor, cluster, path, and canonical correlation and analyses.

7014 Experimental Statistics—II (4) F,S Prereq: EXST 7004 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EXST 7013, 7014, 7015. Special emphasis on laboratory-oriented sciences research problems. Multiple classification analysis of variance and covariance, individual degrees of freedom, factorial arrangement of treatments, and multiple regression.

7015 Statistical Techniques—II (4) F,S Prereq: EXST 7005 or equivalent. 3 hrs. lecture; 2 hrs. lab. Credit will be given for only one of the following: EXST 7013, 7014, 7015. Special emphasis on field-oriented life sciences research problems. Multiple classification analyses of variance and covariance, sampling designs, parameter estimation, multiple regression and correlation, tests of specific hypothesis, and factorial experiments.

7022 Statistical Genetics (3) F Prereq: EXST 7014 or equivalent and knowledge of animal or plant breeding methods. Statistical aspects of quantitative inheritance; partitioning of variance; covariance among relatives; probability as applied to genetic systems; theory of inbreeding; estimation and testing of genetic parameters.

7023 Advanced Topics in Statistical Genetics (3) S Prereq: EXST 4055 and 7022. May be repeated for credit when topics vary. Specialized topics of current interest in statistical genetics not covered in other experimental statistics courses.

7024 Biological Population Statistics—II (3) F Prereq: EXST 7015 or equivalent. Estimating parameters from naturally occurring biological populations; theoretical distributions, practical sampling problems, and presentation of specialized techniques such as use of quadrats, line transects, plotless sampling techniques, and change in ratio estimators including mark recapture and exploitation or catch per effort estimators.

7025 Biological Population Statistics—II (3) S Prereq: EXST 7024 or equivalent. More extensive development of quantitative population techniques; principles of model building and role of model building; community diversity indices.

7031 Experimental Design (3) S Prereq: EXST 7013 or 7014 or 7015 or equivalent. Comparison of designs, models, and analyses, with emphasis on factorial experiments, complete and incomplete block designs, and confounding.

7032 Survey Design (3) S Prereq: 7013 or equivalent. Emphasis on social and behavioral science problems. Comparison of experimental and quasi-experimental designs; emphasis on repeated measures, covariance analysis, and confounding in factorial experiments.

7034 Regression Analysis (3) F,S Prereq: EXST 7013 or 7014 or 7015 or equivalent; and knowledge of matrix algebra. Fundamental approach to regression analysis stressing an understanding of underlying principles; response surfaces, variable selection techniques, and nonlinear regression.

7035 Applied Least-Squares (3) S Prereq: EXST 7013 or 7014 or 7015 or equivalent. Applications of least squares methods; includes usual constraints, no constraints, and means model constraints to unbalanced cross classified and nested data; emphasis on analysis of variance and covariance for fixed effects models.

7037 Multivariate Statistics (3) F Prereq: EXST 7013 or 7014 or 7015 or equivalent; and knowledge of matrix algebra. Comparison of multivariate techniques and analyses; emphasis on discriminant analysis, factor analysis and principal component analysis, canonical correlation, cluster analysis, and multivariate analysis of variance.

7051 Applied Bayesian Inference (3) S Prereq: EXST 4055, and either EXST 7003 or 7004 or 7005; or equivalents. Basic decision theory applications, useful sampling distributions and convenient priors, Bayesian statistical inference, and Bayesian analysis of multiple decision problems.

7061 Statistical Theory (3) S Prereq: EXST 4055 or equivalent. Estimation, hypothesis testing, multivariate concepts, contingency tables, analysis of variance, and statistical inference.

7062 Advanced Topics in Statistical Theory (3) S Prereq: EXST 7061. May be repeated for credit when topics vary. Specialized topics of current interest; emphasis on the theoretical development of statistical methodology.

7083 Practicum in Statistical Consulting—II (1-3) F,S,Su Prereq: EXST 7003 or 7004 or 7005. 4 hrs. ind. Pass-fail grading. May be repeated for credit. Supervised application of statistical techniques to research problems.

7084 Practicum in Statistical Consulting—II (2) F,S Prereq: minimum of 20 sem. hrs. of graduate statistics courses. 4 hrs. ind. Pass-fail grading. Supervised experience in an agency, institution, or private organization in the application of statistical techniques to research problems.


7086 Advanced Seminar in Statistics (1) F,S,Su Prereq: consent of instructor. May be repeated for credit when topics vary. 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 (EXED)

3010 Internship in Cooperative Extension Service (6) Su only
Open to selected students completing their junior year who are considering a career with the Cooperative Extension Service. 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.

4010 Cooperative Extension Work (3) F Cooperative extension work; its history, objectives, organization, relationships, and teaching processes.
4011 Communications in Extension Education (3) F Synthesis and application of concepts and principles of communication in the extension educational program.

4025 Principles of Adult Education (3) S Nature, scope, and importance of adult education; social and psychological factors affecting adult motivation and learning; methods and techniques for providing adult learning experiences.

7030 Program Development (3) F Synthesis and application of relevant concepts relating educational planning, planned change, and social change to development of effective extension education programs.

7031 Principles and Practices of Extension Education (3) F,S S Prereq: EXED 7030 or equivalent. Synthesis and application of learning and teaching concepts in the execution of an extension educational program.

7032 Leadership and Organization (3) S 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.

7036 Evaluation and Research Methods (3) F,S Su Prereq: a basic graduate-level statistics course. Concepts and principles of evaluation and research applied to problems in extension education.

7039 Comparative Extension Education (3) S Prereq: EXED 7031 or equivalent. Comparative analysis of various systems of extension education on a world-wide basis; factors affecting programs and organization within the various systems.

7040 Advanced Extension Education (3) S Prereq: advanced graduate standing and consent of instructor. Integration of relevant concepts, principles, and research findings in program development, leadership and organization, learning and teaching, and evaluation to problems and practices of extension education.

7041 Seminar in Extension Education (1) F May be taken twice for credit. Pass-fail grading. Student-faculty exchange of ideas on research and issues in extension education and supporting disciplines.

7050 Advanced Research Design (3) S Prereq: EXED 7036 or equivalent. Research design; emphasis on research concepts and procedures and their application to extension education.

7900 Independent Study in Extension Education (3) May be taken twice for credit. Independent study in an area of extension education under the guidance of the graduate faculty.

8000 Thesis Research (1-9 per sem.)

8900 Research Problems (1-6) Prereq: EXED 7036 and a basic graduate-level statistics course. May be repeated for credit for a maximum of 6 sem. hrs. Research problems in programming, teaching, leadership, organization, or evaluation of extension programs.

9000 Dissertation Research (1-9 per sem.)

FINANCE (FIN)

In the Department of Finance, the second digit of the course number denotes the subject area of the course, as follows:

2 — business law; 3 — real estate; 4 — risk and insurance; 6 — finance (capital markets and financial institutions); 7 — finance (financial management); 8 — finance (investment analysis/portfolios theory); 9 — general courses.

Prerequisite for any finance course may be waived in exceptional cases with consent of the instructor and approval of the department chairman.

See "Economics," for courses in international trade and money and banking.

3200 Introduction to Law (3) Not open to students in the College of Business Administration 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.

3205 Mineral Rights (3) Prereq: FIN 3355. The law of mineral rights; emphasis on Louisiana oil and gas law; leases, royalty interests, title search, unitization, and pooling; the mineral law of other states and of hard materials.

3351 Principles of Real Estate (3) Prereq: FIN 3201. Principles of purchasing, owning, and operating real estate relative to interest in realty, liens, contracts, deeds, titles, leases, brokerage, management.

3352 Real Estate Valuation and Finance (3) Prereq: FIN 3351 or equivalent. Principles and methods of valuating business and residential land and improvements; sources, methods, and documents used in financing purchase or construction of homes, businesses, and developments.

3355 Real Property Law (3) Prereq: FIN 3201. Rights and obligations which attach to various types of ownership of immovable property both in Louisiana and Anglo-American jurisdictions.

3440 Risk and Insurance (3) 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.

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; QBA 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.


3828 Security Analysis and Portfolio Management (3) Prereq: FIN 3826. Quantitative approaches to security selection and portfolio diversification in an efficient market; portfolio theory and management; portfolio building and selection; portfolio performance evaluations.

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.

4830 Analysis of Corporate Financial Statements (3) Prereq: FIN 3715 or equivalent. Interpretation and evaluation of financial statements; emphasis on their use in credit analysis and in evaluation of security risks and returns; implications of recent research in accounting and finance; predictive ability of financial statement data.

4850 Speculative Financial Markets (3) Prereq: FIN 3636 and 3826; or equivalents. Financial and money markets, financial futures markets, and options markets; valuation models for the instruments in these markets; strategies for hedging and speculation in these markets; applications for individual investors, institutional investors, corporate treasurers, and financial institutions.

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.

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.

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 funding and risk financing; access to insurance markets (including bid specifications and company selection); loss prevention; claims administration; risk management audits and insurance surveys.

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 QBA 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.)

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.

3900 Food Science Research (1-3) Prereq: consent of department head. May be repeated for credit for a maximum of 6 semester hrs. Pass-fail grading. Student outlines and executes project and prepares a written report; problems related to processing, quality control, safety, and nutritional evaluation of foodstuffs.

4000 General Food Science (3) Not for graduate credit for students majoring in food science. Scientific and technological principles related to the physical, chemical, nutritional, and organoleptic properties of foods; special emphasis on ingredients and safety.

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.

4040 Quality Assurance in the Food Industry (4) See DARY 4040.

4050 Food Composition and Analysis (4) Prereq: FDSC 4000, MBIO 2051, and either CHEM 2060 or 2262; or equivalents. 2 hrs. lecture; 6 hrs. lab. Principles of official and acceptable chemical, microbiological, and physical methods used in food analysis; application of these methods to examination of raw and processed foods.

4060 Food Chemistry (3) Prereq: BCH 4087, CHEM 2262, and FDSC 4000, or equivalents. Chemistry of food components; reactions occurring during processing and storage.

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 food and regulated products.

4075 Food Preservation (3) Prereq: CHEM 2062 or equivalent, MBIO 2051, and at least 3 semester 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.

4086 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 fish, shellfish, and other marine organisms.

4099 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.

4162 Microbiology of the Dairy and Food Industries (4) See MBIO 4162.

7000 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.

7005 Food Enzymes (3) Prereq: FDSC 4060 and MBIO 2051; or equivalents. 2 hrs. lecture; 3 hrs. lab. Enzymatic reactions; utilization and problems occurring in foods during collection, processing, storage, and distribution to consumers; applications of enzymes in food processing.

7010 Food Toxicology (4) Prereq: MBIO 2051 and 3115, introductory food science, and consent of instructor. 3 hrs. lecture; 3 hrs. lab. Principles and processes of food spoilage and toxicity; 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.

7016 Nutrient Availability in Processed Foods (3) Prereq: ANSC 4009. Chemical and physical factors and interrelationships which influence nutrient retention and availability in processed foods.

7018 Synthetic Foods and Dietary Substitutes (3) Prereq: BCH 4087 or FDSC 4050 or equivalent. Current and future concepts of synthetic and unconventional foods; material sources, manufacture, nutritional evaluation, and acceptance.

7030 Advanced Food Research (1-6) Prereq: consent of department head. May be repeated for credit for a maximum of 9 semester hrs. Individual problems in pertinent areas of food science research.

7040 Flavor and Colors of Foods (3) Prereq: CHEM 2262, FDSC 4000, and 4060; or equivalents. 2 hrs. lecture; 3 hrs. lab.
FORESTRY (FOR)

1001 Conservation of Forest Resources (2) F,S Resources of forest and range land, including wood, wildlife, recreation, forage, and water; techniques of multiple-use management of forest lands.

2001 dendrology (2) F 1 hr. lecture; 3 hrs. lab. Transportation fee. Principal trees of the U.S.; their identification, classification, nomenclature, and distribution.

2002 Dendrology (2) S Prereq: FOR 2001 or equivalent. 1 hr. lecture; 2 hrs. lab. Continuation of FOR 2001.

2011 Field Techniques and Instrumentation (1) F,S 2 hrs. lab. Various tools, instruments, and techniques used by foresters in the field.

2043 Wood Technology and Identification (3) F 2 hrs. lecture; 3 hrs. lab. Structure and identification of wood; basic physical properties, defects, and uses of wood.

2061 Forest Ecology (3) F Prereq: BOTY 1001, 1002 or BIOL 1001, 1002, 1003, 1004; and credit or registration in FOR 2001 and AGRO 2501. 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 multipurpose use of forest lands.

3002 Silviculture (4) S Prereq: FOR 2011 and 2061; or equivalents. 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, 1431, EXST 2093, FOR 2011, and GEOG 4030. 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.

3034 Summer Field Studies in Dendrology (1) Prereq: FOR 2001. One week of field practice. Transportation fee. Extensive review of species studied in FOR 2001; 60 to 70 more species of trees, shrubs, and woody vines indigenous to the southeastern U.S. studied; herbarium collection required.

3035 Summer Field Studies in Forest Biology (1) Prereq: FOR 3002 and 3003. One week of field practice. Transportation fee. Field analysis of forest communities; on-site examination of the influence of forestry practices on wildlife and water quality.

3036 Summer Field Studies in Mensuration (2) Prereq: FOR 3003. Two weeks of field practice. Transportation fee. Exercises in designing and conducting timber and multipurpose cruises; boundary locations and other types of land surveying associated with forest resource management.

3037 Summer Field Studies in Silviculture (2) Prereq: FOR 3002. Two weeks of field practice. Transportation fee. Field application of silviculture; tree vigor, selecting trees for thinning, timber stand improvement, regeneration methods, and soil-site relationships; field trips to view on-site silvicultural practices.

3038 Summer Field Studies in Timber Harvesting (1) Prereq: FOR 3002 and 3003. One week of field practice. Transportation fee. On-site studies of harvesting systems used in southern forestry; participation in timber harvesting; exercises in time and production.

3039 Summer Field Studies in Wood Utilization (1) Prereq: FOR 3002 and 3003. One week of field practice. Transportation fee. On-site studies of wood manufacturing facilities; exercises in product/raw material relationships.

3051 Farm Forestry (2) F 1 hr. lecture; 3 hrs. lab. Not available for degree credit for students majoring in forestry. Transportation fee. Protection and management of farm woodlands.

4021 Recreation in the Forest Environment (3) F Prereq: senior standing, 2 hrs. lecture, 3 hrs. lab. Transportation fee. Resource-oriented recreation in the forest; demand and supply; recreational planning and development of forest lands and waters; basic recreation management policies and principles.

4030 Seminar in Tropical Forestry (1) V Prereq: FOR 4038; or FOR 1001 and 4039.

4032 Forest Fire Protection and Use (3) S Prereq: FOR 3037. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Forest fire control and use; emphasis on southern forests.

4033 Management of Hardwoods (3) S Prereq: FOR 3002. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Measurement, reproduction, and management of hardwoods.

4034 Timber Harvesting (3) S Prereq: FOR 3038 and 3039. 2 hrs. lecture; 3 hrs. lab. Transportation fee. Planning and administration of timber harvest; equipment choice, methods of planning, and operational techniques involved in movement of timber products; balancing of harvesting systems.

4035 Wildlife and Range Management in the Forest (2) F Prereq: FOR 3002 or equivalent. 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) F Prereq: FOR 3036 and 3037. 2 hrs. lecture; 2 hrs. lab. Principles of forest management, including multiple-use management; 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) S Prereq: FOR 3038 and 3039. 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 landholding problems.

7094 Seminar in Nutrition (1) Same as ANSC 7094, DARY 7094, HEC 7094, PLSC 7094. May be taken twice for credit.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)
4038 Forest Economics (3) F Prereq: FOR 3037 and either ECON 2030 or AGEC 2075; or equivalents. 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) F,S Prereq: FOR 3037, 3038, and 3039; or equivalents. 3 hrs. lecture/proseminar-type discussion. History of forestry and forest legislation; development and evaluation of forest policies; current issues in forest policy.

4040 Urban Forestry (3) S 2 hrs. lecture: 3 hrs. lab. Transportation fee. Conceptual role of trees in the urban environment; optimum use of existing forested area; species selection and tree establishment in suitable planting spaces; street tree ordinances; tree appraisal and evaluation; street tree planning and tree inventory systems; projects used to acquaint students with actual urban forest programs.

4044 Mechanical and Physical Properties of Wood (3) S-E Prereq: FOR 2043 or equivalent. 2 hrs. lecture; 3 hrs. lab. Standard laboratory testing procedures, basic strength determination, working stresses, and timber design.

4045 Design and Control of Wood-Using Processes (3) F-O Prereq: FOR 2043. Relationship of basic physical properties of wood to utilization processes involving machining, gluing, and finishing.

4046 Chemical Properties of Wood (4) F-E Prereq: FOR 2043 and either CHEM 2000 or 2262. 3 hrs. lecture; 3 hrs. lab. Chemistry of wood, cellulose, lignin, and extraneous materials in wood and bark; chemical utilization and modification of wood.

4047 Seasoning and Preservation (4) S-O Prereq: FOR 2043 or equivalent. 3 hrs. lecture; 3 hrs. lab. Principles of lumber drying and wood preservation; economics of the treating industry.

4048 Forest Products (2) S Prereq: FOR 2043. Manufacture and use of forest products.

4061 Selected or Assigned Forestry Problem (1-4) F,S,Su May be repeated for credit a maximum of 6 sem. hrs.

4064 Forest Tree Improvement (3) F Prereq: FOR 3002. Genetic basis of variation in natural populations of forest trees and 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) F Also offered as WILD 7001. Planning, conducting, and reporting of research in the renewable natural resources.

7002 Advanced Silviculture (3) F-E Silvics and silvicultural practices related to the commercially important Southern tree species, especially the pines; silvics and silviculture of several major commercial species outside the southern U.S.

7003 Advanced Forest Soils (3) S-E Prereq: AGRO 2051 or equivalent. 2 hrs. lecture; 3 hrs. lab. Transportation fee.

7004 Forest Ecophysiology (4) F-O Prereq: PLPA 3060 and FOR 2061; or equivalents. 3 hrs. lecture; 3 hrs. lab. 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) V Prereq: FOR 2043. 3 hrs. lecture; 3 hrs. lab. 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) F,S May be taken 3 times for credit. Pass-fail grading.

7072 Seminar in Industrial Forestry (3) F Prereq: consent of instructor.

8000 Thesis Research (1-9 per sem.) Pass-fail grading.

8900 Research Problems in Forestry (1-3) May be repeated for credit. Pass-fail grading.

9000 Dissertation Research (1-9 per sem.) Pass-fail grading.

FRENCH (FREN)

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 the 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.

2001 French for Travelers (3) Not open to French majors. Does not count toward the language requirement. Basic communication patterns; practical everyday vocabulary, with exercises in comprehension and conversation.

2051 Intermediate French (5) An honors course, FREN 2051, with special honors emphasis for qualified students.

2054 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.

2057 Introduction to French Phonetics (2) Phonetic system of French; intensive oral practice with individual sounds; analysis of basic theoretical principles involved in French pronunciation.

2060 Advanced French Grammar and Composition (3) Prereq: FREN 2055. Special problems in French grammar and syntax; emphasis on the written language.
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 FREN 2071; the main authors and literary movements from the 18th century to the present.
3001 French Culture and Civilization (3) Taught in French. Various aspects of French culture and civilization; emphasis on those factors necessary for understanding contemporary France.
3058 French Conversation for Non-Native Speakers (3) Prereq: FREN 2060 or equivalent. Practice in speaking the language to develop fluency and increase vocabulary.
4000 Old French and Medieval Literature (3) Major aspects of the language and literature of the period.
4001 History of the French Language (3) Development of French from its beginnings to the present; attention to formation of the modern language.
4004 Critical Methods and Theory (3) Current and past modes of critical discourse and their application to literary texts.
4005 Advanced French Syntax and Stylistics (3) Syntactical structure of French, with attention to stylistic improvement of written and oral expression.
4010 French Literature of the 16th Century (3) Major aspects of the literature of the period; topics will focus variously on an author, a theme, or a genre.
4015 Advanced French Phonetics (3) Analysis of theoretical principles of French phonetics and their application in dictations, transcriptions, and corrective exercises; detailed examination of regular and irregular pronunciations to perfect overall pronunciation and listening comprehension.
4016 Applied French Linguistics (3) Prereq: FREN 2060 and 4015. Techniques for teaching French; their application in the classroom.
4020 French Literature of the 17th Century (3) Major aspects of the literature of the period.
4030 French Literature of the 18th Century (3) Major literary, philosophic, and scientific currents of the period and their interrelations.
4031 The French Film (3) Art of the French film from Louis Lumière to the present; emphasis on its interrelations with French literature; screening and analyses of representative films.
4040 French Literature of the 19th Century (3) Major aspects of the literature of the period.
4041 Translation Skills (3) Prereq: FREN 2060 or equivalent. An analytic approach to the structures of English and French and the strategies and techniques for their translation in literary, technical, and scientific contexts.
4050 French Literature of the 20th Century (3) Major aspects of the literature.
4051 French for Business (3) Prereq: FREN 2053 or 3058. Taught in French. Language acquisition for students preparing for careers involving trade or business activities with French-speaking areas.
4060 French Literature of Quebec (3) Major aspects of the literature of Quebec.
4064 Pidgin and Creole Languages (3) S-E See ANTH 4064.
4065 Louisiana French (3) Different dialect areas of Louisiana, including Cajun and Creole speech communities; language contact, language variation, and problems of analysis.
4070 Literature of Africa and the Caribbean (3) Major aspects of francophone African and Caribbean literature.
4081 French Literature in Translation (3) Credit not applicable toward a major in French; knowledge of French not required. May be taken twice for credit when subject matter varies. Course content will vary according to instructor. Selected periods, topics, or movements.
4091 Independent Work (1-3) May be repeated for credit for a maximum of 3 sem. hrs. Readings in French literature directed by a senior faculty member.
7005 Francois Villon and His Age (2) Francois Villon and other important figures of the Middle French period, notably Guillaume de Machaut, Eustache Deschamps, Christine de Pisan, Alain Chartier, and Charles d'Orléans.
7006 Studies in Medieval French Literature (3) May be taken twice for credit with consent of department if content varies. Topics may focus variously on an author, movement, or literary mode.
7012 Studies in 16th-Century French Literature (3) May be taken twice for credit with consent of department if content differs. Topics may focus variously on an author, movement, or literary mode.
7013 Montaigne (3) The 'Essais' and their importance.
7021 French Classicism (3) The classical mode in 17th-century French literature; literary and artistic doctrine, major authors, and genres.
7022 Studies in 17th-Century French Literature (3) May be taken twice for credit with consent of department if content varies. Topics focus variously on an author, movement, or literary mode.
7031 Les Philosophes (3) Aesthetic and language theory as developed in the Encyclopédie and in other major texts of the period.
7032 Studies in 18th-Century French Literature (3) May be taken twice for credit with consent of department if content differs. Topics may focus variously on an author, movement, or literary mode.
7041 French Romanticism (3) Historical, epistemological, and semiotic aspects of French Romanticism.
7042 Studies in 19th-Century French Literature (3) May be taken twice for credit with consent of department if content differs. Topics may focus variously on an author, movement, or literary mode.
7051 The 20th-Century Novel (3) The work of such major novelists of the modern period as Gide, Proust, Malraux, Camus, Beckett, and Robbe-Grillet.
7052 Studies in 20th-Century French Literature (3) May be taken twice for credit with consent of department if content differs. Topics may focus variously on an author, movement, or literary mode.
7201 French Phonology and Morphology (3) Sound structure, form, and function in French; principles and techniques of French phonological and morphological analysis.
7202 French Syntax and Semantics (3) French transformational generative syntax; modern semantic theory, with emphasis on generative semantics and its relationship to the syntactic component.
7203 French Dialectology (3) Principles and methods of areal linguistics and social dialectology in French-speaking areas.
7204 Field Methods in French Linguistics (3) Methods of eliciting linguistic materials, processing and analyzing data,
and writing linguistic descriptions; detailed study of dialects of Louisiana French.

7206 Louisiana French and Bilingualism (3) Some field work required. Sociolinguistic, psychological, and linguistic aspects of bilingualism as they apply to Louisiana; analysis of language contact situations, language change and variation.

7300 Old Provençal (3) Phonology and morphology of Old Provençal, based on the study of literary texts.

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.

7962 Special Topics in French Linguistics (3) May be taken twice for credit for the master's degree and three times for the doctorate when topics vary. Topics to be announced.

7970 Seminar in French Literature (3) May be taken twice for credit when topics vary. Topics to be announced.

7980 Seminar in French Linguistics (3) May be taken twice for credit when topics vary.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

**GEOGRAPHY (GEOG)**

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.

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.

2051 Physical Geography: Land and Water Surfaces, Plant and Animal Realms (3) Credit will not be given for both this course and GEOG 2061. Surface elements of the earth's environment; relationships among these elements.

2052 Geography of North America (3) Credit will not be given for both this course and GEOG 4052. Physical and cultural analysis.

2055 Map Reading (3) 2 hrs. lecture; 2 hrs. lab. Nature and interpretation of topographic maps.

2061 Physical Geography (3) 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.

4012 Elements of Cultural Geography (3) S-O Culturally oriented proseminar in American geographical thought during the present century.

4013 Meteorology (3) F Temporal and areal variations in composition and structure of the atmosphere; meteorological instruments and measurements.

4014 Climatology (3) S Climatic phenomena; methods used in development of regional climatology.

4015 Microclimatology (3) S-O Prereq: GEOG 4013 or 4014 or equivalent. Exchanges of radiation, energy, and moisture between the earth's surface and the atmosphere producing characteristic environmental conditions near the ground important to both rural and urban land uses.

4016 Methods of Climatological Analysis (2) Prereq: GEOG 4013 and 4014; or equivalents. 1 hr. lecture; 2 hrs. lab. Analysis and interpretation of climatological data and application to physical and human problems.

4019 Aerial Photo Interpretation (3) 2 hrs. lecture; 2 hrs. lab. Methods of studying cultural elements of the landscape from aerial photographs.

4020 Aerial Photo Interpretation (3) Prereq: GEOG 1001. 2 hrs. lecture; 2 hrs. lab. May be taken for elective geography credit. Analysis and mapping of geologic structure, lithology, and landforms from aerial photographs.

4021 Alluvial Morphology (3) F-E Prereq: GEOG 1001, 1003. May be taken for elective geography credit. Processes that originate and change land and hydrographic forms of alluvial surfaces; particular emphasis on Louisiana.

4022 Geomorphology (3) S-E Prereq: GEOG 1001, 1003. May be taken for elective geography credit. Basic principles underlying the study of land forms; emphasis on processes shaping the natural landscape.

4023 Coastal Morphology and Processes (3) Prereq: consent of instructor. Also offered as GEOG 4023. Coastal areas and processes; morphology, sedimentary properties, nearshore oceanographic characteristics, and beach and coast-line development.

4028 The Ocean World (3) F Characterization and appraisal of physical and biological phenomena of marine and coastal environments.

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.

4031 Spanish America (3) F Physical and cultural geography of Mexico, Central America, and Spanish South America.

4032 Brazil and the Caribbean Area (3) S Physical and cultural geography of Brazil, the Guianas, and the Caribbean Islands.

4039 Cartographic Drafting and Graphic Presentation (3) F 2 hrs. lecture; 2 hrs. lab. Use of basic drafting instruments and techniques necessary for preparation of maps and scientific graphics.
4040 Advanced Cartography (3) Prereq: GEOG 4039 or equivalent. 2 hrs. lecture; 2 hrs. lab. Cartographic history; map projection; advanced techniques of data presentation and cartographic production.

4041 Field Methods in Geography (3) 1 hr. lecture; 4 hrs. lab. Cannot be repeated for credit. Students must have Saturdays free. Fall semester emphasis on interpretation of the cultural landscape; spring semester emphasis on the physical landscape.

4043 Computer Cartography (3) 2 hrs. lecture; 2 hrs. lab. Use of certain prepared computer mapping programs (SYMAP, CALFORM, GEOMAP, CAM, ASPEX, SURFACE-II, and POLYVRT), and techniques necessary to prepare scientific graphics using these programs.

4045 Environmental Remote Sensing (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Basic energy and matter relationships; working principles of the primary remote sensors; environment studied via remote sensing techniques.

4050 Historical Geography of the South (3) F-E Physical and cultural geography of the Southern U.S.; emphasis on geographical elements identified with the south and their historical development; environment, exploration, population, agriculture, and cultural landscape.

4052 Anglo-America (3) S-E Credit will not be given for both this course and GEOG 2052. Physical and cultural geography of Anglo-America.

4060 Political Landscapes (3) S,Su-O Systematic, cultural-political geography, emphasizing both technical and philosophical 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.

4070 Environmental Conservation (3) S Factors governing human use of the earth and its resources.

4073 Urban Geography (3) S Internal arrangement, external relations, and locational aspects of urban places, with emphasis on U.S.; urban places identified by presence of tertiary economic activities.

4077 Economic Geography (3) Location, characteristics, and relationships of primary, secondary, and tertiary economic activity; measurements and theories of location of economic endeavor.

4082 Biogeography (3) F Different approaches to description and interpretation of plant and soil distribution patterns.

4083 Quaternary Paleocology (3) Prereq: GEOG 4082 and a basic course in historical geology, or equivalents. 2 hrs. lecture; 4 hrs. lab. Also offered as ANTH 4083. Theory and method of reconstructing climatic, biological, geological, and human history during the Pleistocene and Holocene periods.

4085 Tropical and Subtropical Biogeography (3) F-E Prereq: GEOG 4082 or equivalent. Includes field trip during spring vacation. Principles of tropical ecology and biogeography taught as preparation for an expedition to tropical America where field methods will be illustrated and ecological diversity studied.

4090 The History of Geography (3) F-O 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) F 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.

7937 Geographical Literature (3)

7938 Culture History (3) May be taken 3 times for credit with consent of department.

7941 Coastal Ecology (3) Prereq: GEOG 4028 or equivalent. 2 hrs. lecture; 2 hrs. lab. Also offered as MRSC 7241. All students must have weekends free.

7942 Coastal Climatology (3) F-O Prereq: GEOG 4028 and a basic course in either meteorology or climatology, or consent of instructor. Also offered as MRSC 7142. Seminar analyzing meteorologic and climatologic phenomena occurring in coastal areas.

7946 Coastal and Estuarine Resources (3) F-O Prereq: GEOG 4028 and 4029, or equivalents. Also offered as MRSC 7246. Seminar on the nature of coastal and estuarine resources and their perception, evaluation, and exploitation by people.

7950 Problems in the Geography of Latin America (3) Prereq: reading knowledge of Spanish or Portuguese. Seminar on selected problems in the cultural and economic geography of Latin America.

7960 Hydroclimatology (3) F-O Prereq: GEOG 4014 or 4015 or equivalent. 1 hr. lecture; 4 hrs. lab. Field measurements and laboratory analyses of radiation and water budgets in rural and urban environments; emphasis on evapotranspiration rates and climatic consequences.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)
GEOL

1001 General Geology: Physical (3) Prereq: credit or eligibility for MATH 0005. 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) Prereq: GEOL 1001. Credit will not be given for both this course and GEOL 2003. An honors course, GEOL 1004, is also available. History of the earth and life on it, as deciphered from study of its rocks and fossils.

1004 HONORS: General Geology: Historical (3) Same as GEOL 1003, with special honors emphasis for qualified students.

1005 Introduction to Oceanography (3) Prereq: GEOL 1001. The world's oceans, their origin and evolution; interactions between physical, geological, chemical, and biological processes in the marine environment; use and abuse of oceans.

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.

1007 Geology of the National Parks (1) Prereq: GEOL 1001. May not be taken for credit toward B.S. degree with a major in geology. National parks and other scenic areas used to illustrate basic geology concepts.

1601 Physical Geology Laboratory (1) Prereq: credit or concurrent enrollment in GEOL 1001. Includes one Saturday field trip. Lab related to GEOL 1001; topographic maps; properties of minerals and rocks; analytical techniques used in geology; structural geology, and geologic maps.

1602 Historical Geology Laboratory (1) Prereq: credit or concurrent enrollment in GEOL 1003. Includes one Saturday field trip. Lab related to GEOL 1003; sedimentary rocks and environments, geobiological sequences, fossils, and the historical geologic record as interpreted from maps.

2001 World Energy Resources (3) Prereq: GEOL 1001. Also offered as GEOG 2001. 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.

2003 Geology of the Grand Canyon (3) Prereq: GEOL 1001 and consent of instructor. 1 ½ 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.

2071 Elementary Structural Geology (3) Prereq: GEOL 1006 and 2661; or equivalents. 2 hrs. lecture; 3 hrs. lab. Description, classification, illustration, and recognition of typical earth structures, especially folds, faults, and unconformities.

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.

2082 Mineralogy (4) Prereq: GEOL 2081. 3 hrs. lecture; 3 hrs. lab. X-ray crystallography, phase diagrams, and rock-forming minerals.

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.

2666 Introductory Field Geology (1) Prereq: GEOL 1001 and 1003; or equivalents. Not open to students on scholastic probation. Saturday, weekend, and/or vacation field trips to points of geologic interest. Students must keep Saturdays open for these trips. Transportation fee for nonmajors.


3031 Sedimentary Geology for Petroleum Engineers (3) Prereq: GEOL 1001. Sediments and sedimentary rocks from the standpoint of processes and products through time; the natural rock system.

3666 Field Geology (6) Su only. Prereq: GEOL 2082, 2661, and 2666; or equivalents. 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)

4023 Coastal Morphology and Processes (3) See GEOG 4023.

4031 Introductory Sedimentation (3) Prereq: GEOL 1003. 2 hrs. lecture; 2 hrs. lab. Mineralogy, texture, structures, and stratigraphy of sediments and sedimentary rocks; their origin through weathering, erosion, transportation, deposition, and diagenesis.

4041 Igneous and Metamorphic Petrology (3) Prereq: GEOL 2082. 2 hrs. lecture; 3 hrs. lab. Composition, textures, structures, distribution, and origin of igneous and metamorphic rocks.

4042 Principles of Economic Geology (3) Prereq: GEOL 2071 and 2081. 2 hrs. lecture; 3 hrs. lab. Geology and genesis of metallic and nonmetallic earth resources.

4062 Introductory Geophysics (3) Prereq: GEOL 2071 and MATH 1352. 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.

4066 Plate Tectonics (3) Prereq: GEOL 2071. Basic and contemporary concepts of plate tectonics; geophysical observations and geologic implications.

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.
Controls

Introduction to Geochemistry (3) Prereq: GEOL 2082 and MATH 1550. Crystal chemistry; application of chemical principles to problems of the origin and evolution of the earth's crust, ocean, atmosphere, and economic resources; major geochemical cycles.

Vertebrate Paleontology (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Phylogenetic survey of fossil vertebrates; their origins and transplants; problems in vertebrate taphonomy, biostratigraphy, and fossil collection and preparation.

Basin Analysis (3) Prereq: GEOL 4031. Basic environment 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.

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 flow, fluid migration, mineral and water diagenesis, salt and shale diapirism, structural deformation, and the occurrence of oil and gas.

Deltaic Geology (3) Prereq: consent of instructor. 2 hrs. lecture; 2 hrs. lab. Also offered as GEOL 4164. Processes of deltaic sedimentation and the nature of deltaic sediments; the Mississippi River delta compared to other modern and ancient deltas.

Subsurface Geology (3) Prereq: GEOL 1001, 1003, 1601, 1602; GEOL 2661 and PETE 4088 strongly recommended. 2 hrs. lecture; 3 hrs. lab. Principles and methods of exploration, analysis, and interpretation using borehole data, electric logs, and samples of rocks and fluids; construction of geologic maps and sections showing sediment facies, geologic structure, geothermal fluid, pressure and water salinity; analysis of fluid migration, oil and gas accumulation, and geothermal resources.

Advanced Igneous Petrology (3) Prereq: GEOL 4041 or equivalent. 2 hrs. lecture; 3 hrs. lab. Phase diagrams, magmatic origin of igneous rocks, and evolution of igneous provinces.

Advanced Metamorphic Petrology (3) Prereq: GEOL 4041 or equivalent. 2 hrs. lecture; 3 hrs. lab. Facies concept, theoretical and field relations, textures, and their significance.

Seismic Stratigraphy (3) Prereq: GEOL 2071 or equivalent. Interpretation of seismic reflection data in terms of sedimentary facies, stratigraphic sequences, and implications for local and eustatic sea-level fluctuations.

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.

Advanced Micropaleontology (3) Prereq: consent of instructor. May be taken twice for credit. Advanced training in micropaleontology, as announced.

Research in Foraminifera (3) Prereq: GEOL 3012. Minimum 5 hrs./wk. lecture, seminar, and supervised lab. Morphology and systematics.
as applied to problems of weathering, transport, deposition, and diagenesis of sedimentary minerals and fluids.

7666 Gulf Coast Field Geology (8) Su only. Prereq: GEOL 3666 or equivalent. Students requiring this course should contact the departmental office no later than Feb. 15. All incoming graduate students interested in "soft rock" specialties should enroll. Camp fee. 8-week field course. Compares 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.

7701 Electron Microscopy (2) Same as BOTY 7701, ME 7701, M BIO 7701, ZOOL 7701. Transmission and scanning electron microscopy and x-ray analysis of biological and nonbiological materials; theory, operation, and application of instruments.

7704 Scanning Electron Microscopy Laboratory: Geological Materials (2) Prereq: credit or registration in GEOL 7701; or equivalent. 6 hrs. lab. Preparation of geological specimens for SEM observation; energy dispersive x-ray analysis; use of the JSM-2 scanning electron microscope.

7901 Seminar in Foreign Geologic Literature (2) Translation and discussion of recent geological literature in French, German, or Spanish.

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.

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, isotopic 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 (GERM)

1001 Elementary German (5) Intensive drill in German speech habits; conversation, aural comprehension, dictation, and functional grammar.

1020 German 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 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: GERM 2061. Intensive practice to acquire correctness and fluency in both oral and written expression, as well as the ability to understand lectures in German.

2075 German Civilization (3) German civilization from early Germancic times to the present.

2090 Germanic Mythology (3) Taught in English; knowledge of German not required. Credit not applicable toward a major in German. Germanic myths and legends; their manifestations in religion, literature, art, and music.

3083 Survey of German Literature, 1830-1890 (3) Prereq: GERM 2055 or equivalent.

3084 Survey of German Literature, 1890-Present (3) Prereq: GERM 2055 or equivalent.

3490 Germanic Saga and Legend (3) Credit not applicable toward a major in German. Epics and tales grouped around cycles such as Theoderic/Dietrich of Bern and Sigfried/Sigurd; transformation of the historic figure into the legendary hero and chronological evolution of material from the earliest forms; readings in English translation.

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.

4002 German Phonetics (3) Analysis of German phonetic principles with extensive practice and corrective drill in the language laboratory; teaching German pronunciation to English-speaking students.
4026 19th-Century German Drama (3)
4027 Classical German Literature (3) German classicism, with special reference to Lessing, Goethe, and Schiller.
4028 Goethe's Faust (3)
4031 German Poetry (3) Lyric poetry, with emphasis on the period 1750-1925.
4032 The German Novel (3) History and development of the German novel; emphasis on structural and thematic analysis, with attention to 20th-century works.
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.
4042 Special Topics in 18th-Century German Literature (3) May be taken twice for credit.
4043 Special Topics in 19th-Century German Literature (3) May be taken twice for credit.
4044 Special Topics in 20th-Century German Literature (3) May be taken twice for credit.
4061 The Romantic Movement in Germany (3)
4067 20th-Century German Prose (3)
4068 20th-Century German Drama (3)
4081 Pre-20th Century German Literature in Translation (3) Credit not applicable toward a major 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) Credit not applicable toward a major 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, Duerrenmatt, Boell, Grass, and others; emphasis will vary.
4915 Independent Work (1-3) May be repeated for credit for a maximum of 3 sem. hrs. Readings in German literature directed by a senior faculty member.
7001 Middle High German (3)
7002 Middle High German Literature (3)
7011 German Literature of the 15th and 16th Centuries (3) Significant writings during the Renaissance and the Reformation from the Akerman aus Boehmen through Martin Luther to Fichchart.
7901 to 7912 Seminar in German Literature (3 each) 7901 Büchner and Hebbel.
7902 Rilke.
7903 Heine.
7904 Old Norse literature.
7905 The Baroque.
7906 Expressionism.
7907 Enlightenment.
7908 Turn of the century.
7909 Henrik Ibsen.
7910 Hauptmann.
7911 Dadaism.
7912 Schiller's nondramatic works.
7924 Seminar in German-American Literary Relations (3)
7925 Seminar in the Preclassical German Drama (3) German drama from its beginning to the classical period.
7951 to 7953 Seminar in German Literature of the Classical Period (3 each) 7951 Goethe.
7952 Schiller.
7953 Henrich von Kleist and the minor dramatists of the classical period.
7971 to 7973 Seminar in Germanic Philology (3 each) 7971 Gothic.
7972 Old Norse.
7973 Old High German, with some attention to Old Saxon.
8000 Thesis Research (1-9 per sem.)
9000 Dissertation Research (1-9 per sem.)

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; credit not applicable toward a major in classical languages or Latin. Etymology of common and scientific words derived from Greek and Latin; emphasis on medical terminology.
3015 The Archaeology of Ancient Greece (3) Also offered as ANTH 3015. Material culture of the great civilization of ancient Greece; includes Neolithic Age, Bronze Age (Mycenaean-Minoan), Classical Age, and the Age of Alexander the Great.
3032 Greek and Roman Tragedy in English Translation (3) Taught in English; knowledge of the Greek and Latin languages not required. Credit not applicable toward a major in Latin or classical languages. The drama of Greece and Rome; its origins, major examples, and their relevance; plays of Aeschylus, Sophocles, Euripides, and Seneca.
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, and 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.

HEALTH, PHYSICAL EDUCATION, RECREATION, AND DANCE (HPRD)

Courses offered are of two types: (1) basic activity courses such as tennis, golf, etc. open to all students of the University; and (2) professional courses in health, 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**

Students in these classes must furnish and wear clothing suitable to the activity.

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<td>1133</td>
<td>Children's Rhythms</td>
<td>For students majoring in elementary grades, physical education, or special education.</td>
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<tr>
<td>1134</td>
<td>International Folk Dance</td>
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<tr>
<td>1136</td>
<td>Swimming</td>
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<tr>
<td>1140</td>
<td>Scuba Diving</td>
<td>Prereq: HPRD 1236 or consent of instructor.</td>
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<tr>
<td>1142</td>
<td>Conditioning Exercises</td>
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<tr>
<td>1145</td>
<td>Elementary Games Skills</td>
<td>For students majoring in elementary grades, physical education, or special education.</td>
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<tr>
<td>1146</td>
<td>Weight Training</td>
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<tr>
<td>1147</td>
<td>Basic Movement for Elementary School Children</td>
<td>For students majoring in elementary grades, or physical education, or special education.</td>
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<tr>
<td>1148</td>
<td>Pistol Marksmanship</td>
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<tr>
<td>1151</td>
<td>Racquetball</td>
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<tr>
<td>1153</td>
<td>Jazz Dance</td>
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<tr>
<td>1154</td>
<td>Martial Arts</td>
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<td>1155</td>
<td>Jogging</td>
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<tr>
<td>1156</td>
<td>Outdoor Living Skills American Red Cross Standard First Aid Certificate recommended.</td>
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<tr>
<td>1157</td>
<td>Aerobic Swimming</td>
<td>Prereq: HPRD 1236 or intermediate swimming skills.</td>
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<tr>
<th>Course Numbers</th>
<th>Course Title</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>1221 to 1255</td>
<td>Intermediate Courses in Sports, Gymnastics, Aquatics, and Dance (1 each)</td>
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<tr>
<td>1221</td>
<td>Fencing</td>
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<td>1223</td>
<td>Archery</td>
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<td>1224</td>
<td>Tennis</td>
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<td>1225</td>
<td>Golf</td>
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<tr>
<td>1226</td>
<td>Gymnastics</td>
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<td>1227</td>
<td>Modern Dance</td>
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<tr>
<td>1229</td>
<td>Badminton</td>
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<tr>
<td>1230</td>
<td>Bowling Prereq: men must have at least a 140 average; women, 130 average.</td>
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<tr>
<td>1231</td>
<td>Ballet</td>
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<tr>
<td>1234</td>
<td>International Folk Dance Prereq: HPRD 1134 or equivalent.</td>
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<tr>
<td>1236</td>
<td>Swimming</td>
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<td>1246</td>
<td>Weightlifting</td>
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<td>1251</td>
<td>Racquetball</td>
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<td>1253</td>
<td>Jazz Dance Prereq: HPRD 1153.</td>
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<tr>
<td>1255</td>
<td>Jogging Prereq: HPRD 1155 or equivalent ability.</td>
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<tr>
<td>1324 to 1353</td>
<td>Advanced Courses in Sports, Gymnastics, Aquatics, and Dance (1 each)</td>
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<tr>
<td>1324</td>
<td>Tennis</td>
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<tr>
<td>1327</td>
<td>Modern Dance</td>
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<tr>
<td>1331</td>
<td>Ballet Prereq: HPRD 1231 and consent of instructor.</td>
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<tr>
<td>1336</td>
<td>Swimming</td>
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<tr>
<td>1337</td>
<td>Advanced Lifesaving Prereq: HPRD 1236 and consent of instructor.</td>
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<tr>
<td>1338</td>
<td>Water Safety Instructor's Course Prereq: valid Advanced Lifesaving Certificate and consent of instructor.</td>
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<tr>
<td>1353</td>
<td>Jazz Dance Prereq: HPRD 1253.</td>
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</table>

**Professional Courses**

In the School of Health, Physical Education, Recreation, and Dance, the second digit of the course number denotes the area of interest for professional courses, as follows: 4—physical education activity for majors; 5—physical education theory; 6—health; 7—recreation; and 8—dance.

4915 Independent Work (1-3) May be repeated for credit for a maximum of 3 sem. hrs. Readings in Greek literature directed by a senior faculty member.
1404 Orientation to Physical Education (1) 3 hrs. lab. Must be taken during student's first semester as a physical education major or minor. Pass-fail grading. Introduction to physical education; assessment of proficiency in activities.

1405 Track and Field (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.

1406 Basketball (1) Prereq: credit or registration in HPRD 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 HPRD 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.

1408 Volleyball (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.

1409 Flag Football (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.

1410 Field Sports (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.

1411 Gymnastics (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.

1412 Tennis (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.

1413 Badminton (1) Prereq: credit or registration in HPRD 1404. 3 hrs. lab. Activity course for students who wish to major or minor in health and physical education.

1600 Personal and Community Health Problems (2)

1601 Cardiopulmonary Resuscitation and Basic Life Support (1) 1 hr. lecture; 1 hr. lab. Successful completion of this course leads to American Heart Association Certification. Development of knowledge, skill ability, and personal judgment in basic life support cardiopulmonary resuscitation; measurement of vital signs: temperature, pulse, respiration, and blood pressure.

1700 Introduction to Recreation (3) Same as LA 1651. Historical and philosophical foundations of leisure and recreation in modern society; emphasis on team efforts of landscape architects and recreation specialists in the planning, designing, and management of recreational space and programs.

1800 Introduction to Dance (3) Prereq: acceptance into dance curriculum. Dance as a performing art.

1801 Modern Dance Technique (1) 3 hrs. lab. May be repeated for credit every semester. For dance majors only. Instruction in modern dance technique.

1804 Dance Theatre (2) 6 hrs. lab. May be taken twice for degree credit. Admission by audition. Participation in Dance Theatre.

1805 Ballet Technique (1) 3 hrs. lab. May be repeated for credit every semester. For dance majors only. Instruction in the basic technique of classical ballet.

2500 Anatomy (3) Prereq: senior college standing.

2501 History and Principles of Physical Education (3) Development of school programs in physical education from ancient times to the present.

2502 Tests and Measurements in Physical Education (2) 1 hr. lecture; 2 hrs. lab.

2503 The Organization and Administration of Intramural Programs (3)

2504 Principles of Conditioning (2) 1½ hrs. lecture; 1½ hrs. lab. Current methods and concepts of training and conditioning; place of physical fitness activities in the physical education program; current trends in fitness programs; participation in selected activities designed to promote fitness; planning programs for physical fitness for educational institutions and social agencies.

2507 Methods and Materials in Physical Education for the Elementary School (2) Prereq: completion of two of the following: HPRD 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.

2515 The Coaching of Track and Field (2) Prereq: competency in track and field and consent of coach director. 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 coach director. 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 coach director. 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 coach director. 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 coach director. 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 coach director. 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 coach director. 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 school director. 1 hr. lecture; 2 hrs. lab. Scientific principles and techniques of coaching swimming; organization and administration of various levels of competition.
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. 3-9 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.

2530 Sport in Society (3) Interdisciplinary study of sport as a mirror of society which reflects the dynamics of man's social existence and emphasizes one important process through which individuals formulate their identity from youth to old age.

2540 Introducing Physical Education for All Handicapped Children (3) Credit will not be given for both this course and HPRD 3545. Open only to physical education majors. Laws affecting the handicapped; the motor abilities of handicapped children and how programs can be adjusted to suit their needs and interest.

2600 Human Sexuality (3) Historical, semantic, religious, social, medical, and comparative cultural aspects of human sexuality from childhood to senility.

2601 First Aid (1) 1 hr. lecture; 1 hr. lab. American Red Cross certificates are granted to those who satisfactorily pass the examination.

2602 Methods, Materials, and Content in Health Education for the Elementary School (3)

2603 Consumer Health (3) Major consumer health problems; selecting, purchasing, and financing of health services and products.

2604 Issues in Mental Health (3) Relevant issues in mental health; includes stress, depression, alienation, family violence, suicide, and death and dying.

2700 Music in the Recreation Program (3) 3 hrs. lecture/lab.

2801 Rhythmic Analysis and Accompaniment for Movement (2) 1 hr. lecture; 2 hrs. lab. Rhythmic elements in movement; structural relationship between music and dance; use of percussion instruments for simple dance accompaniment.

2804 Dance Practicum (1-3) May be repeated for credit. For dance majors only. Pass-fail grading. Experience in technique, performance, or choreography.

3507 The Olympic Games: Ancient and Modern (3) Origins, growth, politicization, and governance of the Olympic Games.

3510 Techniques and Methods of Teaching Physical Education (3) Prereq: credit in HPRD 2504 and competency in four team sports. 2 hrs. lecture; 3 hrs. lab. Microteaching and field experience required. Current teaching methods and materials in physical education; teaching styles, 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/field experiences in multicultural settings. For students majoring or minoring in physical education. Progressively graded programs of activities for elementary schools.

3513 Introduction to Motor Learning and Development (3) Prereq: HPRD 2502 and PSYC 2060; or equivalents. 2 hrs. lecture; 2 hrs. lab. Principles of motor learning; application of psychological and physiological principles to motor learning and improvement of physical performance; role of growth, development, and emotional and psychosocial phenomena in motor learning and performance.

3514 Kinesiology (3) Prereq: HPRD 2500. 2 hrs. lecture; 2 hrs. lab. Science of muscular movements; basic body movements and structures; applied myology, and kinesiologic analysis; application of kinesiology to physical education activities.

3515 The Physiological Basis of Physical Activity (3) Prereq: HPRD 2500. 2 hrs. lecture; 2 hrs. lab. Basic physiological concepts of the muscular, cardiovascular, and circulatory systems; behavior of each system as related to exercise; determination of "normal" and "abnormal" physical conduct in learning situations; development of a philosophy of scientific inquiry.

3516 Curriculum Construction in Physical Education (3) Techniques of curriculum construction and of program content for elementary and secondary schools.

3540 Behavior Impairment and Physical Education (3) Prereq: EDHD 2700 and HPRD 2540. Substantial observation in schools required. Focus on children sometimes labeled as mentally retarded, emotionally disturbed, or learning disabled; appropriate physical education settings.

3541 Chronic Disability and Physical Education (3) Prereq: EDHD 2700 and HPRD 2540. Substantial observations in schools required. Focus on children with mostly overt physical and/or sensory disabilities of a long-lasting nature who need adjusted physical education programs.

3545 Handicapped Children in Physical Education (3) Prereq: EDHD 2700. Credit will not be given for both this course and HPRD 2540. Not open to physical education majors. Motor traits of handicapped children; curriculum implementation specified in federal and state legislation.

3602 Instructor's Course in First Aid (2) 1 hr. lecture; 2 hrs. lab. For persons qualifying to teach the junior and standard Red Cross courses in aid to the injured.

3603 Organization of the School Health Program (3) Prereq: HPRD 1600. Organization of school health programs involving health services, healthful school living, school environment, school health administration, and evaluation of school health programs.

3604 Methods of Teaching Secondary Health Education (3) Prereq: HPRD 1600. 2 hrs. lecture; 2 hrs. field experiences in multicultural settings. Structure of school health education and its relationship to official and voluntary health agencies and to professional associations; modern health resources suitable for teaching health.

3605 Health and the Aging Process (3) Health conservation of human resources; emphasis on understanding attitudes and practices related to health in the aging process.

3608 Communicable and Noncommunicable Diseases (3) Etiology, prophylaxis, and control of communicable and noncommunicable diseases and impairments; includes cancer, diabetes, and cardiovascular, respiratory, and sexually transmitted diseases.

3660 The Holistic Health Approach to Stress (3) Sources of stress; evaluation of stress-related diseases; techniques for promoting stress reduction; prevention of stress-related diseases.

3663 Health Care Systems (3) Health care delivery systems; role of official health agencies, hospitals, and nursing homes; place of the allied health professions in the health care picture; preparation for field work.

3690 Field Work in Community Health (12) Open only to seniors in health science. 40 hrs. per week for entire semester. Field experience in a state, local, voluntary, or federal health agency.
3700 Leadership in Social Recreation (2) 1 hr. lecture; 2 hrs. lab.

3702 Camp Management (3) Camp organization policies; areas and facilities; program, leadership, and counselor skills.

3802 Dance Composition (3) Fundamental elements and principles of choreography.

3803 Improvisation (3) Structural problems and exploration in dance improvisation.

4500 Adapted Physical Education (3) 2 hrs. lecture; 2 hrs. lab. Preparation for teaching special activities to atypical or handicapped children; organization and administration of clinical exercise programs.

4501 Workshop for Physical Education Teachers (3) May be repeated for credit, but only 3 sem. hrs. may be counted toward the degree. For teachers who are interested 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. Lectures, discussion, and lab. Separate sections will be offered in basketball, softball, track and field, volleyball, and other sports. Current theories related to the coaching of sports.

4503 Prevention and Emergency Care of Athletic Injuries (2) 1 hr. lecture; 2 hrs. lab. Primarily for physical education majors.

4504 Advanced Diagnosis and Treatment of Athletic Injuries (3) Prereq: HPRD 4503. 2 hrs. lecture; 2 hrs. lab. Training room procedures; first aid treatment of injuries and rehabilitation; use of athletic training-room equipment; protective strapping, padding, etc. for all sports.

4505 Practicum in Athletic Training (5) Prereq: HPRD 4503. 10 hrs. lab.

4520 Psychosocial Aspects of Sport (3) Prereq: senior or graduate standing. Psychological and sociological perspectives of sport; the nature of play and sport, personalities of sport participants, sport as a social phenomenon, and current literature related to psychosocial aspects of sport.


4600 The School Health Program (3) Problems involved in promoting health of school children; prevention of and protection against infectious diseases; physical inspection and examination; health instruction; provision of a wholesome environment.

4601 Community Health Issues (3) Survey of community health aspects and implications of tobacco, alcohol, drugs, and venereal disease and other communicable diseases; other current community health problems.

4602 Community Safety Education (3) Covers all grade levels in the school health program; community programs; home, traffic, and recreational safety; emphasis on organization and administration of these programs.

4604 School and Community Health Workshop (3) For nurses, school administrators, public health personnel, community health workers, and teachers in all fields of specialization. Interrelations and interactions of school and community health programs; presentations of critical health topics by outstanding authorities from throughout Louisiana and other states.

4605 Habituating and Addictive Drugs in Our Culture (3) Prereq: HPRD 1600 and senior or graduate standing. Harmless, harmful, useful, and useless chemical substances which may affect physiological well-being and behavior or mood; the interaction of psychological, sociological, and physiological components.

4608 Community Health Organization (3) Includes field trips. Incidence and prevalence of specific community health problems; solutions suggested through coordinated efforts of governmental and voluntary health agencies.

4619 Methods and Materials for Teaching Human Sexuality (3) Prereq: HPRD 1600 and 2600. For the present and future educator. Human sexuality; emphasis on need for education about sexuality, theories of sex education, sequential unit planning, survey and availability of audio-visual materials, and qualifications of the effective sex educator.

4700, 4701 Field Work in Recreation Leadership (4, 4) 1 hr. lecture; 6 hrs. lab. Development of abilities in leadership and programming techniques in recreation activities including arts and crafts, music, drama, social recreation, and sports.

4703 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 organizations provided by municipal, state, and federal governments; includes surveys, policies, legislation, legal aspects, finance, and public relations.

4802 Advanced Dance Composition (3) Theoretical and creative aspects of advanced choreography.

4803 Methods for Teaching Modern, Folk, and Ballroom Dance (2) 1 hr. lecture; 2 hrs. lab. Modern, folk, and ballroom dance material; emphasis on creative approaches.

4804 Dance Theatre (2) 6 hrs. lab. May be repeated for credit every semester. Admission by audition. Experienced modern dancers participate in the modern dance theatre as lead dancers and choreographers in dance productions.

4805 Dance Production (3) Production elements for dance theatre.

4806 History of Dance (3) Development of dance from primitive people through the 19th century.


4808 Music Resources for Dance (3) Theory of the aesthetic and functional relationship of music to dance.

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.

7501 Advanced Research Methods (3)

7502 Curriculum Construction in Physical Education (3)

7504 Tests and Measurements in Health and Physical Education (3)
7505 Problems in Physical Education (3) May be taken twice for credit when subject matter varies. 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) Essentials for a successful movement program for children at the preschool and elementary school level; philosophy, objectives, trends, teaching methods, and materials necessary for program development.

7523 Theories of Motor Skill Acquisition (3) Prereq: HPRD 7510 and 7520. For Ph.D. students in 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.

7527 Seminar: Developmental Factors in Children's Motor Skill Learning (3) Prereq: HPRD 7510 and 7520; or equivalents. For doctoral students only. Developmental learning theory/literature and its effects on children's motor performance and learning.

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.

7531 Structural and Functional Characteristics of the Developing Child (3) 2 hrs. lecture; 2 hrs. lab. Structural changes of growth of prepubertal and pubertal children related to function in physical activity.

7532 Analysis of Fundamental Motor Patterns (3) 2 hrs. lecture; 2 hrs. lab. Application of kinesiology to evaluation of skill in fundamental movement patterns.

7533 Exercise for Adults: Prevention of and Rehabilitation from Coronary Heart Disease (3) Prereq: HPRD 7530. 1 hr. seminar; 4 hrs. lab. Theory and practicum in evaluating fitness, prescribing exercise, and planning and supervising group programs for adults.

7534 Exercise and Coronary Heart Disease Risk Factors (3) Contraindications and valid uses of exercise in mediating risk factors.

7535 Neuromuscular Aspects of Exercise (3) Prereq: HPRD 7530. Effects of exercise on muscle cell structure and function; neuromuscular integration and neural function in exercise.

7536 Cardiovascular and Respiratory Function in Exercise (3) Prereq: HPRD 7530. 2 hrs. lecture; 2 hrs. lab. Mechanics of cardiovascular and respiratory function as related to exercise.

7537 Exercise and Environment (3) Prereq: HPRD 7530. 2 hrs. lecture; 2 hrs. lab. Effects of environmental conditions on performance of various types of exercise.

7540 Motor Characteristics of Handicapped Children (3) Prereq: HPRD 4500 or 4540 or equivalent. Structure of gross and fine motor abilities in regular and handicapped children; inter- and intra-individual performance differences and factors associated with them.

7541 Motor Activity Programming for Handicapped Children (3) Prereq: HPRD 7540. Motor activity programs developed from factor 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: HPRD 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.

7602 Philosophic and Historical Foundations of Health Education (3) People, events, institutions, and ideologies influencing the historical development of health education; investigation of current philosophic and ethical issues in the health field.

7605 Problems in Health Science (3) May be taken twice for credit when subject matter varies. Individual study.

7620 Epidemiological Approach to Community Health (3) Prereq: EXST 4001 or equivalent. Vital health statistics via the disease model and its determinants; community organization and program development as they relate to community health education, both qualitatively and quantitatively.

7700 Organization and Administration of Recreation (3)

7701 Workshop in Recreation (3) 2 hrs. lecture; 3 hrs. lab.

7705 Problems in Recreational Studies (3) May be taken twice for credit when subject matter varies. Individual study.

7805 Problems in Dance (3) May be taken twice for credit when subject matter varies. Individual study.

7900 Introduction to Research Methods (3)

7999 Seminar in Selected Topics in Health, Physical Education, Recreation, and Dance (1-3) May be repeated for 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 (HEBR)

4001-4002 Biblical Hebrew (3, 3) HEBR 4001 is a prerequisite for HEBR 4002. Essentials of grammar, syntax, and vocabulary; readings of narrative portions of the Old Testament.

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.

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.

1003 History of Western Civilization (3) An honors course, HIST 1004, is also available. Development of western civilization from the Reformation to the present.

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.

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.

119 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.

2002 History of Rome (3) Roman history from the beginnings to the Emperor Constantine.

2011 English History (3) English history from Roman times to the Glorious Revolution (1688).

2012 English History (3) English history from 1689 to the present.

2021 Modern European History (3) Political, economic, and social developments and diplomacy from the Renaissance to the revolutionary movements of 1848.

2022 Modern European History (3) Political, economic, and social developments and diplomacy from the unification movements in Germany and Italy to the present.

2023 The World Since 1960 (3) 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.

2056 HONORS: American History (3) Same as HIST 2055, with special honors emphasis for qualified students.

2057 American History (3) Prerequisite for all advanced courses in American history. An honors course, HIST 2058, is also available. American history from 1865 to the present.

2058 HONORS: American History (3) Same as HIST 2057, with special honors emphasis for qualified students.

2061 History of Blacks in America (3) Social, cultural, and economic role of black people in the U.S. from 1619 to the present; the African heritage, slavery, the antebellum free people of color, the Reconstruction revolution, and the modern black protest movement.

2071 History of Louisiana (3) Political, economic, social, and cultural development of Louisiana.

2085 Colonial Latin America (3) Colonial period emphasizing the European background, explorations, political and economic systems, and wars of independence.

2086 Latin America Since Independence (3) Latin American countries in the 19th and 20th centuries; the search for political stability, economic and social progress, and international relations.

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.

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.

2101 The History of Science to 1600 (3) Scientific thought from the ancient Orient and Greece to the Renaissance; origins of the scientific revolution; science in the age of Galileo; emphasis on the connections between the history of science and the histories of technology, magic and astrology, art, philosophy, and religion.

2102 History of Science from 1600 (3) History of 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.

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.

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) Prereq: 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.

3119 Undergraduate Proseminar (3) Prereq: consent of instructor. Open to students with at least 6 sem. hrs. of credit in history and with an overall 3.00 gpa. May be taken twice for credit when topics vary. Supervised reading and research in an assigned field of historical study, e.g., U.S., Latin American, modern European, or Far Eastern history.

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 America; developments in social and political institutions and intellectual life.

4009 The Renaissance (3) Italian society and thought from Dante to Michelangelo, with emphasis on the medieval foundations of Renaissance culture; northern Europe from the Hundred Years War to the Reformation, with emphasis on political and economic development.

4011 The Age of the Reformation (3) 16th-century Europe, with emphasis on Protestant and Catholic reform movements.

4013 Europe in the Age of Absolutism (3) Political, economic, and institutional history of Europe, 1560-1660.

4014 The Old Regime and the Enlightenment (3) Institutions of the Old Regime, with emphasis on the Enlightenment, 1660-1760.

4015 French Revolution and Napoleon (3) Background, constructive developments, and territorial changes resulting from wars of the period, with emphasis on Europe's emergence into a new era.

4016 19th-Century Europe (3) Concentrates on the period 1815-1870.

4018 Europe Since the First World War (3) The interwar period; crisis of the democratic state and emergence of totalitarian governments in Europe.

4021 History of France (3) A cultural, political, economic, and social survey of France from earliest times to Louis XIV.

4022 History of France (3) A cultural, political, economic, 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 political fragmentation.

4026 Germany from Empire to Division (3) The last century of German history; the Bismarckian Empire, impact of World War I, rise of National Socialism, division of Germany after World War II.

4029 The History of Eastern Europe, 1700-1914 (3) Intellectual, social, and political history of Eastern Europe from 1700 to 1914, with emphasis on rise of nationalism in the 19th century.

4030 The History of Eastern Europe, 1914-Present (3) Intellectual, social, and political history of Eastern Europe from 1914 to the present; emphasis on rise of the nation-states during and after World War I, impact of Fascism in the inter-war period, and Communist takeover following World War II.

4031 History of the Balkans, 1453-1878 (3) Origins of the Balkan peoples, development of the Ottoman Empire, and rise of the autonomous Balkan nation-states.

4032 History of the Balkans, 1879-Present (3) Events leading up to and including World War I, problems of the inter-war period, World War II, and rise of Communism in Southeastern Europe.

4033 History of Russia to 1861 (3) Kievan Rus, the Tsardom of Muscovy, and Imperial Russia to the emancipation of the serfs; emphasis on distinctive features of Russian historical development: autocracy, serfdom, Russian Orthodox Christianity, ambivalent attitudes toward Western culture, literature as social protest.

4034 History of Russia since 1861 (3) Reaction and reform from 1861 to 1905; failure of parliamentary democracy amid war and revolution; Leninism and Stalinism; relaxation of totalitarian rule since Stalin's death.

4035 The Revolutionary Tradition in Russia (1790-1905) (3) Revolutionary ideas and activity in 19th-century Russia; native Russian socialist tradition as a basis for understanding the unique characteristics of Russian Marxism.

4036 The Development of Soviet Communism (3) Soviet Communism from the beginning of the 20th century to the 20th Party Congress in 1956; ideology and institutions and their inter-relations.

4039 English Constitutional History (3) Origin and development of English legal institutions; their influence on American legal institutions.

4040 English Constitutional History (3) Origin and development of English legal institutions; their influence on American legal institutions.


4044 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.

4045 Hanoverian England (3) Political, economic, social, and intellectual history of England in the 18th century—from the accession of George I to about 1793.

4046 19th-Century Britain (3) From the outbreak of the French Revolutionary Wars to the end of the Victorian era; transformation of Great Britain from an agrarian to an industrial nation; establishment of a laissez-faire economy; transition from aristocracy to democracy; reform of traditional institutions; emergence of a class system; evolution of characteristic Victorian beliefs and attitudes; development of scientific, religious, and philosophic thought.

4047 The Age of Churchill (3) Political, social, and economic developments in England and the British Empire during recent times; emergence of the modern social state.

4049 The British Empire and Commonwealth (3) British Empire and development of the British Commonwealth of Nations.

4051 Colonial America, 1607-1763 (3) Political, economic, cultural, and military developments in the 13 colonies.

4052 The American Revolution, 1763-1789 (3) Political, intellectual, economic, and military developments in the formation of a permanent American union.

4053 The Age of Jefferson and Hamilton (3) Emergence of American political, economic, and social systems during the formative years, 1789-1820.

4054 The Old America (3) U.S. history between 1820 and 1860; Jacksonianism, territorial expansion, party development, and the national controversy over slavery.

4055 Civil War (3) Secession; social and economic conditions, principal military campaigns.

4056 Reconstruction (3) Political, social, and economic changes in the South from 1865 to 1880.

4057 The Emergence of Modern America (3) Industrialization, party politics, and social life in the U.S. from 1870 to 1900.

4059 The American Teens and Twenties (3) From the inaugural of Woodrow Wilson to the Crash of 1929; Wilson and reform at home and revolution abroad; the Great War and its impact; the Jazz Age, its tension and its collapse.

4060 The Age of Roosevelt (3) From the inaugural of FDR to the surrender of Japan: the Great Depression and the new New Deal; the thirties' search for an American culture; the road to Pearl Harbor; America in World War II, at home and abroad.

4061 Intellectual and Social History of the United States to 1865 (3) Ideas and patterns of thought and their relationship to American society from the colonial period to the Civil War.

4062 Intellectual and Social History of the United States from 1865 to the Present (3) Ideas and patterns of thought; their relationship to American society from the Civil War to the present.

4063 Diplomatic History of the United States, 1776-1914 (3) American diplomatic history to the outbreak of World War I; connections between domestic politics and foreign affairs.

4064 Diplomatic History of the United States, 1914 to the Present (3) Basic interpretations of American foreign policy in the 20th century, with emphasis on popular opinion and relationship of business investment to foreign policy.

4065 The History of Contemporary America (3) The history of America since 1945, focusing on domestic affairs.

4066 Military History of the United States (3) Military policy and campaigns, war economy, and organization of the armed forces.

4067 The Negro in America (3) Negro life and history from 1619 to 1876; the African background of American Negroes.

4068 The Negro in America (3) Negro life and history from 1876 to the present; emphasis on the 20th century as an era of change.

4069 The Early American Frontier (3)

4070 The Later American Frontier (3)

4071 The Antebellum South (3) Economic, social, intellectual, and political development of the South up to 1860.

4072 The New South (3) Political, economic, social, and intellectual history of the South since 1877.

4073 History of Louisiana to 1815 (3) Political, economic, and social development of Louisiana.

4075 American Economic History to 1860 (3) American economic growth and development from the colonial period to 1860, including the railroad, slavery, technology, and nature of the industrial revolution; findings and method of the "new" or quantitative economic history.

4076 American Economic History, 1860 to the Present (3) 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 "new" or quantitative economic history.

4081 History of the Caribbean, 1492-1830 (3)

4082 History of the Caribbean, 1830 to the Present (3)

4083 Great Powers of Latin America: Mexico (3) Political, economic, and social developments since independence.

4085 History of Argentina (3) Political, social, and economic development from the colonial period to the present.

4087 Mexico: The Colonial Era (3) Colonial social, economic, political, and intellectual events; emphasis on those that gave rise to the socioeconomic and political problems of modern Mexico.

4089 History of Brazil (3) Political, economic, social, and diplomatic developments from 1500 to the present.

4091 History of China (3) Political, economic, and cultural life of China from antiquity to 1800.

4092 History of China (3) Western impact on Chinese civilization; emphasis on political and cultural developments.

4093 History of Pre-Modern Japan (3) Japanese political and cultural history and civilization from the beginnings to the close of the Japanese middle ages.

4094 History of Modern Japan (3) Japanese history from 1600 to the present; emphasis on historical and cultural roots of Japan's modernization in the late 19th century and quest for empire in the 20th; cultural and intellectual developments in modern Japan.

4097 History of Africa to 1800 (3) African social and historical development from prehistory to the beginning of the 19th century.
4098 History of Africa from 1800 to the Age of Independence (3) African societies in the 19th and early 20th centuries, focusing on internal African developments and including European colonization and the beginnings of independence movements on the continent.

4105 Studies in Classical History (3) Selected periods and problems in Greek and Roman history; methods and materials of ancient scholarship.

4111 Early Modern European Institutions (3) Detailed examination, with emphasis on early modern European history.

4113 European Intellectual History since 1789 (3) Main currents in European thought affecting society in the last 200 years: romanticism, socialism, Darwinism, psychoanalysis, existentialism.

4130 History of World War II (3) Origins, evolution, and consequences of the most devastating conflict in modern times; special emphasis on diplomacy, the role of espionage, counter-espionage, propaganda and resistance, and the social impact of war; the war as a global phenomenon, with primary geographic focus on Europe and the United States.

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.

4191 Religions of China and Japan (3) Also offered as REL 4191. Major religious traditions of East Asia; includes Confucianism, Taoism, Mahayana Buddhism, Shinto, and Chinese and Japanese folk religion; religion in the context of Chinese and Japanese cultural history.

4195, 4196, 4197 Special Studies in History (3, 3, 3) Prereq: consent of department. Topics may vary.

4901 Independent Study (3) Prereq: open to advanced students of high academic standing by consent of department. Reading and research on selected topics.

4902 Independent Study (3) Prereq: open to advanced students of high academic standing by consent of department. Reading and research on selected topics.

7000 History and Criticism: Its Nature and Meaning (3) Origin and evolution of concepts of history; emphasis on problems involved in both writing and philosophy of history.

7901 Introduction to Historical Research (3) Required of candidates for the M.A. degree in history. Use of bibliographical aids.

7904 American Historiography and Criticism (3) Required of candidates for the M.A. degree with concentration in American history. American historical writing from the colonial period to the present.

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.)

HOME ECONOMICS (HEC)

In the School of Home Economics the third digit of the course number denotes the subject area of the course as follows: 1 and 2—food and nutrition; 3 and 4—textiles and clothing; 5 and 6—family life and environment; 9 and 0—general courses (except 7094 which is a nutrition course).

1000 Home Economics as a Profession (3) Attributes which identify home economics as a profession; includes historical and philosophical view of its mission, interrelationship of its various specializations, and competencies and commitments necessary in the various specializations.

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.

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.


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 socioeconomic status of family groups.

2035 Basic Clothing Construction (3) 1 hr. lecture; 4 hrs. lab. For students with limited experience in clothing construction. Basic principles of clothing construction applied to selected practice problems and specific garment types.

2045 Fashion and the Clothing Industry (3) Fashion origin and movement including current trends; influence of fashion and designers on apparel manufacturing.
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.

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) Su only Planning of food systems layout; equipment selection and arrangement as influenced by needs of the system.

3032 Textile Design and Decoration (3) 1 hr. lecture; 4 hrs. lab. Creative experience in structural design and surface enrichment of textiles.

3035 Intermediate Clothing Construction (3) Prereq: HEC 2035. 1 hr. lecture; 4 hrs. lab. Application of principles of garment fit and pattern alteration; emphasis on fabric characteristics as related to construction techniques.

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 gpa 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.

3056 Methods of Teaching Nursery School and Kindergarten Children (3) Prereq: HEC 2055 or equivalent. 2 hrs. lecture; 2 hrs. lab. Essentials needed for successful involvement with children from varying socioeconomic and cultural groups 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 for varied cultural groups and socioeconomic levels.

3058 Organization and Administration of Nursery School and Kindergarten Programs (3) Prereq: HEC 2055. Organization and administration of nursery schools and kindergartens; historical, cultural, and philosophical foundations, finances and budgeting, staff duties, policies and legal aspects, equipment and physical plant, parent education and communication, public relations.

3060 Family Finance (3) Prereq: ECON 2030 or AGEC 2075 or equivalent. Credit will not be given for both this course and ECON 3310. Development of bases for decision-making related to family income, saving, and spending.

3061 The Family in a Consumer Society (3) Prereq: ECON 2030 or AGEC 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.

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.

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 equivalent. 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 equivalent. Cultural and ecological influences on the food practices of peoples.

4020 Quantity Food Production (4) Prereq: HEC 4015 or equivalent. 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.

4030 History of Costume (3) Costume as a reflection of social, economic, and cultural life.

4035 Clothing Design—Draping (3) Prereq: 9 sem. hrs. of clothing construction courses or equivalent. 2 hrs. lecture; 4 hrs. lab. Designing garments by draping on the dress form.
4036 Basic Tailoring (3) Prereq: HEC 3035. 1 hr. lecture; 4 hrs. lab. Principles of tailoring applied to suits and coats.

4037 Pattern Design (3) Prereq: HEC 3035. 1 hr. lecture; 4 hrs. lab. Apparel design by the flat pattern method; emphasis on relationship between body form, pattern shape, and fabric interpretation.

4038 Advanced Techniques of Clothing Design and Construction (3) Prereq: 12 sem. hrs. of clothing construction courses or equivalent. 1 hr. lecture; 4 hrs. lab. Students design and construct garments for themselves and 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.

4050 Dynamics of Family Living (3) The family in a democratic society; emphasis on establishment and maintenance, relationships, and environmental influences.

4051 The Adolescent and the Family (3) Growth, development, and guidance of the adolescent in the home, family, and community.

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.

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 4083. Human requirements, evaluation of nutritional status, and problems related to kind and amount of food consumed.

7018 Proteins in Nutrition (3) Prereq: BCH 4083. Nutritional aspects of proteins and amino acids interpreted from the viewpoint of deficiencies, interrelationships, requirements, and metabolic pathways.

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.

7043 Seminar in Textiles and Clothing (1) May be taken twice for credit. Reports and discussion of current literature and research.

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.

7052 Topics and Issues in Family Studies (3) May be taken twice for credit when topics vary. Lectures and research on topics and issues not covered in other family life courses.

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.

7061 The Consumer in the Economy (3) Synthesis and evaluation of the interrelationships among consumer knowledge and responsibility of the family, consumer legislation and protection, and competitive market processes.

7062 Family Financial Counseling (3) Prereq: HEC 3060. Personal, social, and legal climates affecting family financial decisions; development of skills designed to assist families to become self-sufficient in money management.

7065 Management of Family Resources (3) Individual and family resources, including identification and evaluation; principles of resources and management satisfaction for individuals and families.

7090 Seminar in Home Economics (3) The development and philosophy of home economics; recent developments, current issues, and trends; 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.

7094 Seminar in Nutrition (1) Same as ANSC 7094, DARY 7094, FDSC 7094, PISC 7094. May be taken twice for credit.

8000 Thesis Research (1-9 per sem.)
Horticulture (HORT)

2050 General Horticulture (4) 3 hrs. lecture; 2½ 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.

2051 Commercial Fruit and Nut Culture (3) F 2 hrs. lecture; 2 hr. lab. Proper management and methods of improvement of the fruit and nut industry in Louisiana.

2052 Vegetable Crops (3) F Prereq: HORT 2050 or equivalent. 2 hrs. lecture; 2 hrs. lab. Vegetable industry and major vegetable crops in the U.S.; commercial vegetable production; lab compares new cultural practices with existing ones.

2061 Plant Propagation (3) S 2 hrs. lecture; 2 hrs. lab. Principles of sexual and asexual propagation; specific methods for reproduction of plants.

2075 Woody Ornamental Plants (3) S 2 hrs. lecture; 2 hrs. lab. Commonly used plants such as azaleas, camellias, roses, other shrubs, vines, and small trees; identification and use of various plants.

2076 Foliage Plants and Greenhouse Management (3) F 2 hrs. lecture; 2 hrs. lab. Managing commercial and home greenhouses; identification and study of major greenhouse foliage plants.

4021 Florist Crop Production (3) S Prereq: HORT 2076 or equivalent. 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.

4050 Tropical Horticulture (1) V 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.

4051 Processing of Fruits and Vegetables (3) S, Su 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.

4071 Nursery Management (3) F Prereq: BOTY 3060 or equivalent. 2 hrs. lecture; 2 hrs. lab. General principles and practices involved in the commercial production, management, and marketing of nursery crops.

4083 Advanced Vegetable Crops (3) S 2 hrs. lecture; 2 hrs. lab. Vegetable production, including factors that affect fruiting and production of vegetables in different areas of the U.S.

4085 Advanced Fruit Crops (3) S Production of pomological crops; the fruit industry; approaches to problems confronting pomologists in the southeastern U.S.

4086 Turf Management (3) F 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 including the basic concepts of planting, establishing, and maintaining turf.

4096 Post-Harvest Physiology (4) S 3 hrs. lecture; 2 hrs. lab. Physiological changes associated with storage and handling of fruits and vegetables.

7002 Breeding of Horticultural Plants (3) S-E Principles of genetics as applied to breeding of horticultural plants.

7020 Application of Cyto genetics to the Improvement of Crop Plants (4) Prereq: BOTY 4026 or equivalent. 2 hrs. lecture; 4 hrs. lab. Also offered as AGRO 7020. Chromosome behavior; relationships underlying inheritance of traits and influencing methods of breeding agricultural crops.

7022 Nutrition of Horticultural Crops (3) S-E Prereq: consent of instructor. Nutrient element requirements of horticultural plants and functions of nutrient elements within the plant.

7023 Growth and Development of Horticulture Crops (3) F-E Horticultural plant constituents, their occurrence, transformation, and metabolism; changes induced in plants by variations in water, light, temperature, etc.

7025 Current Topics in Oleiculture (3) S-O Survey of scientific information; emphasis on response of different crops to day length, temperature, growth regulators, etc.; fruiting and production of vegetable crops.

7026 Current Topics in Pomology (3) S-E Seminar dealing with research publications 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.)

Human Development (EDHD)

2700 Characteristics of Exceptional Children (3) F,S,Su 3 hrs. lecture, plus field experience. Individual differences of various types of exceptional children; characteristics, educational programs, and resources for treatment.

3750 Introduction to Mental Retardation (3) F,S,Su Prereq: credit or registration in EDHD 2700. Understanding the causes of mental retardation; physical, mental, emotional, and learning characteristics of the retarded.

3751 Materials and Methods for the Mentally Retarded (3) F,S Prereq: EDHD 2700 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) F,S Prereq: EDHD 2700 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) F Multidisciplinary foundations of guidance; major guidance functions; overview of administration of guidance programs.
4361 Elementary School Counseling (3) S For prospective elementary counselors and teachers. Principles and procedures of counseling within the elementary school program.

4365 Basic Course in Interpersonal Communication (3) F,S,Su 2 hrs. lecture; 2 hrs. lab. For prospective counselors and teachers.

4600 Disabling Conditions: Rehabilitation and Special Education (3) V Etiology, acute phase, and chronic state of disability; emphasis on teamwork among physicians, teachers, counselors, and paramedical specialists.

4601 Rehabilitation Management (3) V Management aspects of vocational rehabilitation and its relationship to special education.

4701 Problems of Exceptional Children (3) F,S,Su Exceptionality and special education; changes required by recent federal and state legislation; information related to the integration of educational services and services offered by other community, state, and national agencies.

4703 Reading and Analysis of Research in Human Development (3) Student is responsible for registering with a faculty member and selecting the area of reading and research analysis.

5000 Special Topics in Human Development (3) V 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) V 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) V 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) Su Not for degree credit for special education students. The 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) V International organizations such as UNESCO, 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) V

7014 Behavior Modification Techniques (3) F,S,Su 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) F,S Prereq: EDHD 7014 or equivalent.

7100 Characteristics of the Young Handicapped Child (3) V Prereq: EDHD 4701. Characteristics of young handicapped children; educational implications; programming models.

7101 Educational Assessment of Young Handicapped Children (3) V Prereq: EDHD 7100. Assessment and identification procedures for young handicapped children.

7102 Education of Young Handicapped Children (3) V Prereq: EDHD 7100. Methods and materials applicable to teaching young handicapped children.

7108 Practicum in Special Education: Young Handicapped Children (6) V 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) V 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) V 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) V 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) V 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) Su 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) Su 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) F

7331 Counseling Theory and Techniques (3) F,S Prereq: EDHD 4365 and either EDHD 4360 or 4361.

7332 Educational and Occupational Information (3) F,S,Su See VOED 7332.

7333 Analysis of the Individual (3) F

7334 Vocational Counseling (3) S,S,E 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) F,S 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) F,S 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) F,S,Su Prereq: consent of instructor. 2 hrs. conf.; 6 hrs. lab in a work setting. Supervised experience in special settings (e.g. employment service, rehabilitation agency, mental health center, hospital, counseling center).

7365 Seminar in Counseling Practicum (3) F,S,Su 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) S Prereq: EDHD 7331 or equivalent. Theoretical approaches to individual counseling.
7702 Advanced Vocational Counseling (3) Su Prereq: EDHD 7334 or equivalent. Also offered as VOED 7392. Life career planning through vocational assessment and counseling; vocational counseling theory, research, and practice.

7794 Advanced Group Counseling (3) S Prereq: EDHD 7330 or equivalent. Small group counseling approaches.

7795 Family Counseling (3) F Prereq: consent of instructor. Theory and practice of family therapy; family dynamics, the role of the counselor, and theoretical approaches to conducting family therapy.

7707 Special Topics in Counseling (3) V Prereq: consent of instructor. 1 hr. lecture; 4 hrs. lab. May be taken twice for credit when topics vary.

7708 Field Experiences in Vocational Counseling (3) F,S,Su Prereq: EDHD 7332 and 7334. 1 hr. lecture; 4 hrs. lab. May be taken twice for credit. Also offered as VOED 7398.

7709 Supervised Counseling Internship (3) V Prereq: consent of instructor. 1 hr. conf.; 6 hrs. lab. May be taken twice for credit.

7710 Counseling Exceptional Children and Their Parents (3) F,S,Su 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) F,S,Su

7712 Occupational Direction for Exceptional Children (3) V

7713 Individual Study in Special Education (3) V

7715 Diagnostic-Prescriptive Teaching in Special Education (3) V Prereq: EDHD 4701 or EDHD 7334 or equivalent. 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) V Prereq: EDHD 7711 or 7333 or equivalent. Supervised experiences in specific educational assessment techniques; practical, in-depth approach to educational assessment.

7719 Internship in Special Education (3) V 3 hrs. lecture; 10 hrs. lab. May be taken twice for credit. Scheduled after completion of the educational specialist program. Advanced internship in special education.

7720 Education of Emotionally Disturbed Children (3) F,S,Su Prereq: consent of instructor. Defining emotional disturbance, determining an incidence rate, and identifying a variety of causal factors; 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) F,S,Su 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) F,S,Su Prereq: consent of instructor. Theories of maladaptive behavior patterns in school age children.

7728 Practicum in Special Education: Emotional Disturbance and Social Maladjustment (6) V Prereq: 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 student's background and goals.

7730 Education of the Hearing Impaired (3) V Prereq: EDHD 4701 or equivalent. Problems of hearing impairment; its effects on educational, social, emotional, psychological, and vocational adjustment.

7731 Special Methods for Teaching the Hearing Impaired (3) V 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—1 (3) V Prereq: EDHD 7730 or equivalent. Communication processes; development of oral and written expressive and receptive language.

7733 Language Development for the Hearing Impaired—II (3) V Prereq: EDHD 7732 or equivalent. 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) V Prereq: EDHD 4701 and 7730; or equivalents. Development, improvement, and correction of speech for the hearing impaired.

7735 Speech Development for the Hearing Impaired—II (3) V Prereq: EDHD 7734 or equivalent. Diagnosis and planning for remediation or correction of individual cases and group situations.

7738 Practicum in Special Education: Deaf and Hard of Hearing (6) V 1 hr. lecture; 10 hrs. lab.

7740 Introduction to Children with Learning Disabilities (3) F,S,Su Prereq: credit or registration in EDHD 4701. Learning disabilities; historical development, prevalent theories, characteristics, teaching strategies, organizational patterns.

7742 Methods of Instruction for Children with Learning Disabilities (3) F,S,Su Prereq: 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) V Prereq: EDHD 4701, 7740, and 7742. 1 hr. lecture; 10 hrs. lab.

7750 Education of the Mentally Retarded Child (3) F,S,Su 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) F,S,Su 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) V 1 hr. lecture; 10 hrs. lab.

7760 Nature and Needs of the Gifted and Talented (3) V Historical perspective, social, emotional, and educational
characteristics; administrative consideration; major sociological and psychological studies; special populations of gifted and talented.

7761 Curricular Theories and Methods for Teaching the Gifted and Talented (3) V Prereq: EDHD 7760 or equivalent. Curricular theories, materials, and teaching strategies for planning appropriate learning experiences for the gifted and talented; emphasis on the development and evaluation of educational plans for individuals and groups.

7762 Creative Behavior (3) V Nature and analysis of creative behavior; appraisal and implementation of specific processes designed to encourage creative productivity.

7768 Practicum in Education for the Gifted (6) V Prereq: EDHD 7760, 7761, and 7762. Minimum 240 hrs. per semester, including 1 hr. weekly seminar. Provides experienced teachers and teacher-trainees an opportunity to plan, implement, and evaluate teaching strategies, materials, and counseling techniques with academically gifted students in a school program.

7780 Seminar in Special Education (3) V Recommended for advanced graduate students. Selected topics in special education; content and discussion topics vary.

7790 Organization and Administration of Special Education (3) Su 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) V Prereq: completion of 3 sem. hrs. in educational administration or consent of instructor.

7798 Practicum in Special Education: Administration of Special Education (6) V 1 hr. lecture; 10 hrs. lab.

7799 Internship in Administration of Special Education Programs (3) V 1 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.)

INDUSTRIAL EDUCATION (INED)

1001 Industrial Engines—Maintenance and Repair (3) F,S,Su 6 hrs. lab. Design, construction, operation, and maintenance procedures of industrial engines, including electrical, cooling, lubricating, and fuel systems.

1010 General Woodworking (3) F,S,Su 6 hrs. lab. Use and care of hand tools; application of machines in manufacturing wood products; machine safety; nomenclature.

1011 Materials and Methods of Residential and Light Commercial Construction (3) F,S 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) F,S,Su 6 hrs. lab. Technical knowledge and skills required in the areas of sheet metal, metal spinning, foundry, 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) F,S,Su Prereq: INED 1021. 6 hrs. lab. Foundry, forging, heat treatment, and machine tool work.

2023 Advanced Sheet-Metal Work (3) V 6 hrs. lab. Pattern drafting and construction of fittings used in industrial sheet-metal work.

2024 Welding Technology (3) F,S,Su 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 metallurgy, symbols, joint design, hard surfacing, and testing and inspection.

2030 General Electricity (3) F, S 6 hrs. lab. Fundamental principles of electricity, including direct and alternating currents.

2031 Basic Electronics (3) F,S 6 hrs. lab. Basic electronic principles and circuitry as applied to diodes, vacuum tubes, power transformers, inductors, capacitors, resistors, and rectifiers.

2040 Technical Drawing, Reading, Sketching, and Takeoff (3) F,S,Su Prereq: INED 1011 or equivalent. 1 hr. lecture; 4 hrs. lab. Also offered as CONS 2040. Blueprint reading of the mechanical and building trades; freehand shop sketching, materials takeoff, and estimating.

2041 Industrial Crafts (3) V 6 hrs. lab. Techniques of art metalwork, plastics, and leather-craft.

2042 Industrial Arts for Elementary Teachers (3) V 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) V 1 hr. lecture; 4 hrs. lab. Principles, parts, components, functions, and application of air conditioning and refrigeration systems; problems in equipment performance, operation, inspection, repair, and maintenance.

2051 Occupational Safety (3) F,S,Su 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) F 2 hrs. lecture; 2 hrs. lab. Purpose, objectives, development, and classroom observation of industrial education programs.

3043 Industrial Arts for Elementary Teachers (3) V 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.

3057 Methods of Teaching Industrial Subjects (3) S Application of recognized methods of teaching in the field of industrial education.

3058 Planning and Organizing the Industrial Arts Curriculum and Laboratory (3) S Prereq: INED 2052. Preparation, organization, and evaluation of course materials and laboratory facilities for industrial arts.
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3059 Occupational Guidance Principles (3) F Occupational guidance as applied to the field of vocational education.

3060 Testing in Industrial Education (3) F Preparation and use of tests as a means of evaluating students in industrial education.

3061 Industrial Supervisory Practice (3) F,S The supervisor as a key person in the industrial organization; duties, responsibilities, and successful supervisory practices.

3062 Principles of Industrial Training (3) F,S 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) F,S 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) F-E Prereq: INED 2051 or equivalent. 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.

3067 Fire Prevention and Protection (3) S-E Prereq: INED 2051 or equivalent. Theory and practices involved in the science of controlling fire potentials and methods of extinguishment.

3069 Observation and Student Teaching (8) V Prereq: senior standing and at least a 2.20 average. Open only to students preparing to teach industrial education.

4056 Occupational Safety and Health Standards, Codes, and Regulations (3) F-O Safety and health standards, codes, and regulations applicable to employees in private and public institutions and industries under the Williams-Steiger Act of 1970.

4066 Principles of Industrial Hygiene (3) S-O Prereq: INED 2051 and ZOOL 2160; or equivalent. Introduction to industrial hygiene as related to environmental factors which produce adverse employee health.

4070 Teaching: Construction Industries (3) Su-V 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) Su-V 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) F,S,Su May be repeated for credit for a maximum of 6 sem. hrs. Individual and group problems in the field of industrial education.

7080 History of Industrial Education (3) V Development of industrial arts and vocational trade and industrial education; emphasis on the growth of the profession in relation to societal changes, technical developments, and government laws.

7081 Principles of Vocational Trade and Industrial Education (3) V Origins, practices, and status of vocational trade and industrial education in Louisiana and the United States; comparisons between VTI and other vocational education programs.

7082 Conference Methods (3) V Conference and reporting procedures used in industrial education; activities include preparation, development, and writing of sample reports and reviews.

7083 Programmed Instruction (3) V Principles of programmed instruction; emphasis on methods and application of instruction and development of materials.

7084 Administration and Supervision of Industrial Education (3) V Philosophy, principles, and procedures of administering and supervising industrial education programs and staff.

7085 School Plant Maintenance Management (3) V 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) V Curriculum research and development, actual industrial education curriculum programs evaluated and revised.

7087 Survey Techniques in Industrial Education (3) V

7088 Administration of Adult Vocational Education Programs (3) V 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.)

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 IE 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.

2603 Manufacturing Processes (3) Prereq: EGR 1001 or equivalent. 2 hrs. lecture; 3 hrs. lab. Theory, capabilities, and methods of manufacturing processes and production machinery; scheduling, planning, and cost analysis of production.

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 1552. Descriptive statistics for one or two variables of measurement, discrete and continuous frequency distributions,
emphasize on curve fitting and regression, statistical inference, tests of hypothesis, estimation, analysis of variance, and simple and multiple 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.

4382 Applied Probability Theory (3) Prereq: MATH 2057. Probability, including random variables and their transformations, discrete Markov processes, and some fundamental limit theorems.

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.

4453 Industrial Quality Control (3) Prereq: IE 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 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 2090 or equivalent; or 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: IE 4510 and either ENGR 2060 or CSC 1241; or equivalents. 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. Two sections may be taken concurrently if topics vary. 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 and 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 associate results.

7551 Industrial Queuing 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 CHE 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.)
INTERIOR DESIGN (ID)

1051 Introduction to Interior Design (3) Contemporary practice of interior design as a profession; responsibilities of the interior designer.

1153 Architectural Basic Design (3) See ARCH 1153.

2720 Materials and Furnishings for Interior Design (3) F only Prereq: sophomore standing in the major. Materials, finishes, and furnishing types and sources available to the interior designer.

2751 Interior Design Studio (3) S only 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; relation 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) F-Q Interiors, interior architecture, furnishings, and cultural influences of the times, ancient through 17th century.

3742 History of Interior Design and Decoration—II (3) F-E Interiors, interior architecture, furnishings, and cultural influences of the times from 17th century to the present.

3751 Furniture Design (4) Prereq: ID 3752 and consent of instructor. 1 hr. lecture; 7 hrs. lab. Design, materials, construction, and production of interior components.

3752 Interior Design—II (4) F only Prereq: ID 2751 or equivalent; nonmajors by consent of instructor only. 1 hr. lecture; 7 hrs. lab. Basic space planning and interior design problem solving; communication and visual presentation of design ideas.

INTERIOR DESIGN (ID)

3753 Interior Design—III (5) S only Prereq: ID 3752; nonmajors by consent of instructor only. 1 hr. lecture; 9 hrs. lab. Interior design problems of a complex nature stressing interrelationship of multiple interior spaces, their equipment, and furnishings.

3754 Interior Design—IV (5) F only Prereq: ID 3753. For interior design majors only. 1 hr. lecture; 9 hrs. lab. Advanced interior design problems; experimental and innovative concepts, materials, and furnishings.

3755 Interior Design—V (S) only Prereq: ID 3754. For interior design majors only. 1 hr. lecture; 9 hrs. lab. 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) F only 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) S only Prereq: ID 2751 or equivalent; nonmajors by consent of instructor only. 1 hr. lecture; 4 hrs. lab. Nature, theories, and application of color in interior design.

3771 Lighting for Interior Spaces (3) F only Prereq: ID 3770 or equivalent; nonmajors by consent of instructor only. 1 hr. lecture; 4 hrs. lab. Qualitative and quantitative aspects of lighting; application to interior design.

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 concentrat- ing 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.

2071 Survey of Italian Literature (3) Development of Italian literature from the beginnings to the Renaissance.

2072 Survey of Italian Literature (3) Continuation of ITAL 2071; principal authors and literary movements from the Renaissance to the present.

4051 Dante (3) Dante, with emphasis on the Inferno.

4052 The Renaissance (3) Literary origins and productions of the Italian Renaissance; writings of Petrarch, Boccaccio, Lorenzo de' Medici, Poliziano, Sannazzaro, and Ariosto.

4915 Independent Work (1-3) May be repeated for credit for a maximum of 3 sem. hrs. Readings in Italian literature directed by a senior faculty member.

7971, 7972 Seminar (3 each)

7971 Old Italian language and pre-Renaissance literature.

7972 Italian literature of the 18th and 19th centuries.
JOURNALISM (JOUR)

2070 Introduction to Broadcast Media (3) Organization, structure, and function of electronic media including history, regulation, social significance, and responsibilities.

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.

2090 Introduction to the Mass Media (3) American mass media; their development, structure, problems, and opportunities; mass communications theory and processes.

2901 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.

2095 Typography and Graphic Arts (3) 3 hrs. lecture; 1 hr. lab. Occasional field trips to printing plants. Typography and graphic arts processes in printed communications.

2151 Beginning Newswriting (3) Prereq: "B" or better in ENGL 1002 or English proficiency as certified by the College of Arts and Sciences English proficiency test or the English writing lab. Typing ability of about 35 words per minute recommended. 2 hrs. lecture; 2 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.

3001 Business Journalism (3) Writing for and editing house magazines, trade journals, and miscellaneous industrial publications; business news reporting for the daily newspaper.

3002 Feature Writing (3) Prereq: JOUR 2151. Developing and writing feature stories, vignettes, and other human-interest material.

3065 Photojournalism (3) Prereq: JOUR 2151. 2 hrs. lecture; 2 hrs. lab. Photographic principles for communications media.

3071 Telecommunications History (3) Technical, corporate, economic, regulatory, and programming history of telecommunications media in the U.S.; contributions of key individuals throughout development of telecommunications media in America.

3998 Internship (3) Prereq: consent of adviser and school director. At least 12 hours of work a week under general supervision of a faculty member and direct supervision of a professional in some field of journalism or communication, e.g., advertising or public relations agency, newspaper, magazine, journal, or broadcasting station.

4001 Public Relations Writing (3) Prereq: JOUR 2151 and either a grade of "B" or better in ENGL 1002 or completion of the College of Arts and Sciences English proficiency requirements. Typing ability of about 35 words per minute recommended. 2 hrs. lecture; 2 hrs. lab. Developing and writing news releases, speeches, audio-visual copy, feature stories, and other public relations communication materials.

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 2093, 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 Morning Advocate/State Times (Baton Rouge); practice in composing stories on video display terminals.

4072 Television Production and Directing (3) Prereq: JOUR 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.

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 Opinion Journalism (3) Analysis of various forms of journalistic writing which involve subjective expression: interpretive reporting, news analysis, essays, editorials and columns, critical reviews, and interviews; writing assignments.

4082 The Law of the Mass Media (3)

4085 Newspaper Management (3) General management principles applied to publishing 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 2093, 4042, and 4082. 1 hr. lecture; 4 hrs. lab. Selecting, evaluat-
ing, 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.

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: JOUR 2070 and 2073; or equivalents. Problems of managing a radio and/or television station; general management, programming, sales; engineering matters related to management.

4173 Advanced Television Production and Directing (3) Prereq: JOUR 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 Broadcasting and Society (3) Examines the interrelationship of the broadcast media and society by investigating the social impact of selected kinds of broadcast programming; effects of the broadcast industry, broadcast regulatory bodies, and public interest groups upon one another.

4175 Telecommunications Law, Regulation, and Public Policy (3) Prereq: JOUR 2070 or equivalent. Development of telecommunications media law and regulation through case studies relating to the Federal Communications Act, as well as rules and policy decisions of the Federal Communications Commission and other regulatory bodies; emphasis on current legal issues affecting the telecommunications media; instruction in use of legal documents and literature.

4971 Special Topics in Telecommunications (3) Prereq: JOUR 2070 or equivalent and consent of instructor. May be taken twice for credit when topics vary. Analysis and discussion of a selected telecommunications topic which goes beyond present advanced course offerings in telecommunication; topics to be announced.

4999 Independent Study (3) Prereq: at least a 3.00 gpa and consent of school director. Readings, projects, conferences, and reports under faculty direction.

7001 Research Methods in Mass Communications (3) Methods common to most types of communications research; case studies audiences, agencies of mass communications, and of communications content; occasional field work.

7005 Public Opinion (3) Formation and development of public opinion; role of the press in influencing thought and action.

7010 Seminar in Communications Literature (3)

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 Mass Communication Theory (3) The communication process; attention, perception, effects on individuals and society; beginnings and development of symbolic communication and divergence of language systems; relation of language to the thought processes; uses of language in mass communications; seminars on results of research projects and ideas for further research.

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.

7999 Special Topics in Journalism (3) May be taken twice for credit when topics vary.

8000 Thesis Research (1-9 per sem.)

JUNIOR DIVISION (JD)

0006 Study Skills (2) 1 hr. lecture; 1 hr. lab. For students in Special Services Programs only. Not for degree credit. Pass-no credit grading. Basic learning principles; includes time management, goal setting, note-taking, listening skills, reading, theme and report writing, memory, and analyzing study problems.

0010 Developmental Reading—II (3) 2 hrs. lecture; 3 hrs. lab. For students whose diagnostic tests indicate a reading level below 8.0. Not for degree credit. Pass-no credit grading. Intensive work with functional reading skills including word recognition, comprehension, structural analysis, phonetic analysis, and study techniques.

0011 Developmental Reading—II (3) Prereq: JD 0010 or placement by reading personnel. 2 hrs. lecture; 3 hrs. lab. For students whose diagnostic tests indicate a reading level above 8.0 yet below college level. Not for degree credit.

Pass-no credit grading. Intensive work with comprehension, vocabulary, and study skills.

0016 Reading Skills Enhancement (4) May be taken 3 times for credit with consent of instructor. For students whose diagnostic tests indicate the need for intensive work in improving reading skills. For students in Special Services Programs only. Pass-no credit grading. Not for degree credit. Improvement of vocabulary, word recognition, comprehension, and functional reading skills.

0900 Study Skills (1) Pass-fail grading. Not for degree credit. Lectures and group activities designed to teach specific study techniques: time organization and management, concentration, note-taking, comprehension and retention of learning, preparing for and taking examinations.
1151 Introduction to Landscape Architecture (3) Concerns and responsibilities of landscape architects; includes an overview of the profession, elements and processes of design, and examples of public and private design work.

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 HPRD 1700. Historical and philosophical foundations of leisure and recreation in modern society; team efforts of landscape architects and recreation specialists in planning, designing, and management of recreational space and programs.

2111 Survey of Landscape Architecture (3) Primarily for 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.

2121 Landscape Plant Materials (3) 1 hr. lecture; 6 hrs. lab. Identification and study of plant materials, with emphasis on their visual characteristics.

2141 History of Landscape Architecture (3) Evolution of development of the landscape in western civilization from the earliest cultures through the 19th century.

2142 History of Landscape Architecture (3) Development of the landscape in the 20th century; evolution of Oriental attitude toward the landscape and contrasts in viewpoint with western civilization.

2145 Historic Preservation for the Landscape Architect (3) Theory and practice of historic preservation as a component of the landscape architect's responsibilities for resource management; introduction to analysis, management, and design methodology for cultural resources.

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; projects aimed at stimulating evaluation, criticism, and creativity.

2171 Landscape Construction (3) Prereq: LA 1182 or equivalent. 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 equivalents. 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) 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.

3122 Landscape Plant Materials (3) Prereq: LA 2121. 1 hr. lecture; 6 hrs. lab. Identification and study of plant materials; emphasis on their ecological associations and value as design elements in landscape.

3153 Basic Landscape Architectural Design (4) Prereq: LA 1181, 1182, and 2152; or equivalents. 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.

3155 Planting Design (3) Prereq: LA 2121 or equivalent. 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.

3276 Landscape Architectural Professional Practice (3) 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.

4156 Planting Design (3) Prereq: LA 3155 or equivalent. 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 1015 or 1022, either AGE 2307 or CE 2500 and 2510, and LA 2171; or equivalents. 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 equivalent. 2 hrs. lecture; 6 hrs. lab. Development of knowledge and skill in design, technical layout, and construction of site structures and systems; specialized aspects such as structural mechanics, wood construction, outdoor lighting, irrigation, and retaining walls.

4175 Landscape Construction (4) Prereq: LA 4174 or equivalent. 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) 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.

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 equivalent. 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 equivalent. 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 equivalents. 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 equivalent. 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 (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 LATN 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 LATN 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
Latin

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 not applicable toward a major in Latin or classical languages.

4001 Intensive Latin Language (3) A specialized course intended to provide a reading knowledge of Latin. For graduate students and advanced undergraduates for whom a familiarity with another foreign language is strongly recommended. Successful completion of this course will be regarded as sufficient preparation for LATN 4006. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory Latin courses. Syntax, grammar, and lexicology of Latin; graduated readings from representative authors.

4002 Roman Satire (3) Readings from Petronius' Satyricon, Martial, and Juvenal for their humor, with attention to evidence of the lives and language of ordinary Roman people.

4003 Readings in the History of Livy (3) Selections from the History of Livy; 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 beginning to Ammianus Marcellinus; supplementary readings in English in the literary, political, and social history of Rome.

4915 Independent Work (1-3) May be repeated for credit for a maximum of 3 sem. hrs. Readings in Latin literature directed by a senior faculty member.

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.

7999 Directed Readings of Major Authors (3) May be taken twice for credit. Pass-fail grading. Directed readings, on an individual basis, from the reading list required of master's candidates, under the guidance of the graduate faculty.

8000 Thesis Research (1-9 per sem.)

LATIN AMERICAN STUDIES (LAS)

7900 Seminar in Latin American Studies (1) May be taken 3 times for credit.

8000 Thesis Research (1-9 per sem.)

LIBRARY SCIENCE (LIBS)

7000 Fundamentals of Library and Information Service (3) F,Su Core course. Theoretical foundations and the professional practice of library and information service.

7001 Selection of Library Materials and Collection Development (3) V Core course. Principles of selecting library materials; procedures involved in building collections for all types of libraries.

7002 Reference and Bibliography (3) V Core course. Preparation for reference and bibliographic work in public, college, school, and university libraries; selection, evaluation, and use of scholarly general and specialized reference materials in various subject fields; basic introduction to one machine readable data base system.

7004 Principles of Library Management (3) V Core course. Basic functions of management and their application to library operations.

7006 Organization of Information—Description (3) V Core course. Principles and practices of document description and author-title access in document information systems, especially library catalogs.

7007 Organization of Information—Subject Access (3) V Core course. Principles and practices of subject access in document information systems, especially library catalogs and shelf arrangements.

7009 Research Methods in Library Science (3) V Core course. Research methodology applicable to librarianship; includes definition of research problems, selection of inquiry tools, and data collection; emphasis on evaluation of research in library science.

7101 Media and Services for Children (3) F,S,Su Aspects of child development and the place of library resources, both print and nonprint, in meeting the needs of children through library programs of all types.

7102 Media and Services for Young Adults (3) S,Su Specialized area of young adult librarianship; contemporary literature and non-book formats, programming, and services.

7106 Problems in Selection and Evaluation of Library Resources (3) V Prereq: LIBS 7001. Critical evaluation of materials and systems by subject, format, special topic, and accessibility.

7200 Resources for the Humanities (3) S Literature in major divisions of the humanities, including bibliographical and reference materials, audio-visual media, periodicals, and machine readable data bases. Fields: art, music, religion, philosophy, and literature.

7201 Resources for the Social Sciences (3) F Literature in major areas of the social sciences, including special reference books, pertinent government documents, periodicals, audio-
visual materials, and machine readable data bases. Fields: history, geography, education, economics, political science, sociology, anthropology, business, and law.

7202 Resources for Science and Technology (3) F. Literature of science; modern concepts and representative literary works in the major fields of pure and applied sciences; special reference and audio-visual materials; periodicals, and machine readable data bases.

7203 Federal Government Publications (3) S. Federal government publications as products of government activity and as sources of information for libraries.

7204 Resources of the Health Sciences (3) Su. History and structure of health sciences literature; resources; problems of bibliographic control.

7206 Resources of American Research Libraries (3) V. Problems of building and maintaining research collections; distribution and extent of these libraries; methods of surveying library facilities; interinstitutional agreements for specialization of collections and other forms of library cooperation; printed catalogs, union catalogs, and bibliographical centers.

7209 Resources in Special Literatures (3) V. May be taken twice for credit when topics vary. Literature and resources found in special libraries such as law, theology, music; one type of literature per semester; sources studied include those useful for both reference work and collection development.

7400 School Librarianship (3) F,S,Su. Philosophy and objectives of school library service; trends influencing development of the school library and its increased responsibilities for new services; the school library as a multimedia learning center.

7401 Academic Librarianship (3) S. The library in the college and university community; organization, financing, and administration; materials selection and buying; reference works; reserved books; graduate research; interlibrary loans; instruction in use of the library.

7402 Cooperative Systems Librarianship (3) F. Interrelationships of all types of libraries in a system; management procedures with emphasis on personnel, legal frame of reference of the systems, and use of new technological developments in communication with transmission of information.

7403 Special Librarianship (3) F,S,Su. Major types of special libraries; their purpose and function in business, government, and other organizations; principles of administration; technical processing; reference services, as applied to special libraries; special methods, techniques, routines, and records.

7404 Health Sciences Librarianship (3) S. Administration, organization, function, and services of health sciences libraries; networks and cooperative programs, with emphasis on Medline.

7405 Public Librarianship (3) S. Role of the public library in the past and present; relationship of the public library to the community; political and budgetary aspects of library functioning; major service responsibilities of the public library.

7501 Management of Library and Information Systems (3) V. Development of management thought; application of management functions to library operations; contemporary thinking of library managers; research problems related to library management concerns.

7502 Technical Services Management (3) V. Elements and problems involved in the technical services operations of a library; acquisitions, cataloging, classification, materials preparation, binding, and the total preservation program; special administration problems such as serials management, variations in the types and sizes of libraries, and overall policies.

7505 Analysis of Libraries and Information Systems (3) V. Application of systems analysis techniques to management of libraries and information centers; analysis and evaluation of current operating systems; design and implementation of more effective manual and/or computerized information processing and delivery systems.

7506 Library Information Processing (3) V Prereq: credit in a programming language course. Also offered as CSC 7405. Use of computers in library processes; advanced programming concepts and experience for library operations; evaluation of computer systems for library and information systems.

7601 Problems in Cataloging and Classification (3) V. Subject catalog access and the Library of Congress classification.

7602 Organization of Special Materials (3) V. Bibliographical and physical organization of materials that vary from traditional monographic forms, including general graphic materials, motion pictures and video-recordings, music, sound recordings, three-dimensional artifacts and realia, machine readable data files, microforms, cartographic materials, serials, manuscripts and other archival materials, and vertical file materials.

7605 Information Science (3) F. Theory, history, and philosophy of information science and information retrieval; analysis and evaluation of existing information retrieval systems; information-system design for library application.

7606 Abstracting and Indexing (3) S. Abstracting and indexing methods, evaluation of manual and computerized abstracting and indexing systems; problems confronting abstracting and indexing services; question analysis and search strategies; evaluation of search results.

7607 Online Library Systems and Services (3) F,S,Su. Also offered as CSC 7410. Development and use of online systems and services in libraries; in-depth training in their use; impact of online services on libraries and information systems.

7700 History of Books and Libraries (3) V. History and cultural relationships of the book and libraries; rise of the modern library since the mid-19th century.

7701 Printing and Publishing (3) V. History of printing and publishing; development of the publishing industry in the 19th and 20th centuries.

7800 The Art and Practice of Storytelling (3) F. Role of storytelling as a form of communication, past and present; selection, preparation, and presentation of stories for all age groups; planning story programs for libraries and television.

7901 Issues in Libraries (1) F,S,Su. Pass-fail grading. Required course. All graduating students are expected to participate in faculty-directed discussions in which a synthesis of contemporary professional issues is the focus.

7902 Practicum in School Librarianship (3) F,S,Su. Prereq: completion of core courses and LIBS 7101, 7102, and 7400. Six hours per week at practicum site. Practice in administration and management of school libraries.

7903 Practicum in Special Librarianship (3) F,S,Su. Prereq: completion of core courses and LIBS 7403. Six hours per week at practicum site. Practice in administration and management of special libraries.
7904 Practicum in Academic Librarianship (3) F,S,Su Pre¬req: completion of core courses and LIBS 7401. Six hours per week at practicum site. Practice in administration and management of academic libraries.

7905 Practicum in Public Librarianship (3) F,S,Su Pre¬req: completion of core courses and LIBS 7405. Six hours per week at practicum site. Practice in administration and management of public libraries.

**MANAGEMENT (MGT)**

3000 Petroleum Land Management Practice (1) Su only Open only to petroleum land management majors. Waived only by consent of department. Pass-fail grading. A minimum of 6 weeks of full-time employment by a firm participating in the summer program.

3115 Operations and Information Systems (3) See QBA 3115.

3127 Collective Bargaining in the Private Sector (3) Limitations placed on managerial prerogatives by collectively bargained agreements in the private sector.

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 relationship.

3190 Business Policies and Problems (3) Prereq: FIN 3715, MGT 3159, and MKT 3401. 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.

3193 Business and Society (3) Prereq: senior standing. 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.

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.

4128 Collective Bargaining in the Public Sector (3) Special problems and issues in public sector bargaining; those aspects different from private sector bargaining.

4130 Government Regulation of Human Resource Management (3) Impact of federal legislation on human resource managers; emphasis on hiring, retention, and promotion policies of employers.

4140 Multinational Management (3) Prereq: MGT 3159 or equivalent. Management concepts, analytical processes, and philosophical bases for international management operations; emphasis on environmental dynamics, multinational business organizations, cultural constraints, organizational structures and processes, and conceptual systems of international operations.

4159 Analysis of Organizations and Management (3) Offered for the M.B.A. student (and others intending to enter the program) without previous 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 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.

4167 Personnel—Human Resources (3) Personnel functions: personnel planning, recruitment, selection, development, utilization, maintenance, and reward of employees; relationships with environment and employee associations.

4168 Operations Management (3) See QBA 4168.

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.

5220 Administrative Theory and Behavior (3) Management fundamentals and organizational behavior; structure, processes, behavior in, and development of organizations.

7140 International Business Management (3) Theories and practice of international business; management of international operations; development of environmental, operational, strategic, and decision-making perspectives relative to functional areas of business in an international context.

7200 Research Methods and Reports (3) Prereq: QBA 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.

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.

7218 Organization Development (3) Theories, strategies, and techniques for improving effectiveness of organizations through improved interpersonal and person-group relation-
ships; analytical observation of behavior of ingroup task situations; managerial behavior topics covered by experiential laboratory exercises and a major outside experience project.

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 function, components of the behavioral unit, processes, interactions, and outputs of organizational behavior.

7267 Seminar in Personnel—Human Resources (3) Role of personnel executives; emphasis on their relationships to employees, employee associations, external environment, organizational environment.

7268 Operations Management (3) See QBA 7268.

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; quantitative techniques which may be used in systems analysis and design as they relate to human organizations.

7270 Seminar in Advanced Business Problems (3) May be taken twice for credit. Directed work in advanced management topics.

7275 Advanced Operations Management (3) See QBA 7275.

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.

7300 Labor Management Relations (3) Primarily for master's level students. Collective bargaining and strategies, public policy, and current issues in the public and private sectors.

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.)

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.

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.

4041 Salt Marsh Ecology (4) Su only Prereq: general botany and 10 semester hours of biology. Four weeks at Gulf Coast Research Laboratory, Ocean Springs, 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.

4086 Marine Food Resources and Technology (3) See FDSC 4086.

4090 Marine Microbiology (3) Prereq: MBIO 2051 or equivalent. Also offered as MBIO 4090. Characterization and distribution of estuarine and open-ocean microorganisms; role of marine heterotrophs in organic and inorganic cycling processes and food web dynamics; microbial contribution to diagenesis, antibiotic, and biomagnification in the sea; indicator species; microbial activities in marine corrosion, decomposition, and fish pathology and spoilage.

4095 Marine Field Ecology (4) Su only Prereq: general biology, invertebrate or vertebrate zoology, introductory chemistry, and consent of instructor. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory. Also offered as ZOOL 4095. Relationships of marine and estuarine organisms to environmental factors; interactions among organisms; ecological processes of energy and materials flow; field studies of communities and ecosystems of the Louisiana coastal zone.

4101 Ecological Oceanography (3) See GEOL 4081.

4165 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.

4171 Coastal and Marine Meteorology (3) Prereq: MATH 1532, PHYS 2102, and either 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.

4172 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.

4395 Marine Field Microbiology (4) Su only Prereq: 12 sem. hrs. of biology including an introductory course in microbiology and consent of instructor. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory. Also offered as MBIO 4395. Introduction to the estuarine and marine microbes, especially bacteria and fungi; classification, methodology, role in marine ecosystems, biogeochemical cycles, and diseases of marine animals.

4410 Ecosystem Modeling and Analysis (3) Prereq: MATH 1552 and knowledge of a programming language. Mathematical description and analysis of ecological systems; emphasis on systems approach using matter and energy flow models for quantifying and analyzing interdependence and dynamics in ecosystems; topics include linear flow models, dynamic non-linear models, optimization models, stochastic models, and computer techniques for modeling, validation, sensitivity analysis, and parameter optimization.
4464 Marine Resources Law (1-4) Also offered as LAW 5414. Legal, political, economic, and scientific aspects of exploitation of ocean resources and use of ocean space, including concepts of freedom of the high seas, territorial waters, special contiguous zones, ocean boundaries, navigation in the territorial sea and on the high seas, the continental shelf, deep seabed mining, domestic and international fisheries management, oceanographic research, military interests, pollution of the marine environment, dispute settlement, marine technology transfer, and development of United States oceans policy; special emphasis on the work of the Third United Nations Conference on the Law of the Sea.

4465 Seminar in Coastal Zone Management (1-4) Also offered as LAW 5803. Non-law students encouraged to participate. Written and oral presentation required; special projects relating to the primary field of interest permitted. Multidisciplinary investigation into specific resources allocation and environmental quality issues arising in 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.

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.

7016 Coastal and Shallow-Water Literature (3) Individual and group-assigned readings concerning availability and content of source references.

7020 Marine Microbial Ecology (3) Prereq: one semester course in microbiology and consent of instructor. Also offered as MBIO 7022. Analysis of microbial ecosystems and population dynamics; response of marine microorganisms to physicochemical factors and environmental alterations; microbial interactions; microbial nutrient regeneration processes; nutritional requirements and microenviron-ments; modeling and systems analysis in marine microbial ecology.

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.

7122 Gravity Waves in Shallow Water (3) Prereq: MATH 1550, 1552; PHYS 2101, 2102; and consent of instructor. Linear and nonlinear theories of water gravity waves considered by classical mathematical derivation and numerical methods; emphasis on wave transformation in shallow water, characteristics of boundary layer under wave action, and selected topics of wave-related phenomena in nearshore zone.

7125 Estuarine and Shallow-Water Oceanography (3) Prereq: consent of instructor. Wind-driven and mass-driven currents in estuaries, turbulence and mixing in estuaries, seiches, storm surges, internal waves, salt balance, and inlet flows.

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.

7132 Coastal Physical/Chemical Systems: Analytical Methods (3) Prereq: consent of instructor. 6 hrs. lab. Sampling techniques, proper handling and preservation of samples, identification and determination of mineral components in sediments, qualitative characterization of organic components, and measurements of inorganic nutrients and toxic substances in water and sediments; techniques tested and evaluated in terms of application of results to understanding of natural environmental systems.

7142 Coastal Climatology (3) See GEOG 7942.

7165 Chemistry and Microbiology of Flooded Soils and Sediments (3) Same as AGRO 7165. Chemical and microbiological changes in fresh water, brackish water, and estuarine-flooded soils and sediments affecting availability of nutrients and growth of plants.

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.

7241 Coastal Ecology (3) See GEOG 7941.

7246 Coastal and Estuarine Resources (3) See GEOG 7946.

7311 Marine and Estuarine Plankton (3) Prereq: background in ecology, invertebrate zoology, limnology, or phyology; and consent of instructor. 2 hrs. lecture; 1-3 hrs. lab with 2 field trips during lab periods. Structure and function of marine plankton populations; changes of species and numbers in relation to various environmental factors such as temperature, nutrients, radiation, transparency, currents, and water-masses; elementary aspects of identification, life history, and biocenographic features; sampling theory, collecting techniques, distribution, abundances, production, analytical models, and economic significance.

7317 Marine Ecology (3) See ZOOL 7120.

7370 Seminar: Theoretical Concepts of Ecology (1) Prereq: one-semester course in ecology or consent of instructor. May be repeated for credit. Announced topics.

8000 Thesis Research (1-9 per sem.)

8900 Advanced Reading and Literature Research (1-6 per sem.) May be repeated for credit for a maximum of 6 sem. hrs.

8901 Advanced Field Research (1-6 per sem.) May be repeated for credit for a maximum of 6 sem. hrs.

9000 Dissertation Research (1-9 per sem.)
Marketing (MKT)

2000 Marketing and Society (3) Not open to students in the College of Business Administration. Marketing aspects of contemporary social issues; emphasis on the methods and approaches for dealing with societal issues and their impact on marketing activities.

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 GPA of 3.00 or above. Independent research in any area of marketing under direction of a faculty member.

4421 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.

4423 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.

4425 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.

4431 Retailing Management (3) Prereq: MKT 3401. Store organization, operation, and management; retail method of inventory; problems connected with retail buying and selling.

4433 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.

4441 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.

4443 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.

4451 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.

4488 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.

7200 Research Methods and Reports (3) See MGT 7200.

7471 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.

7472 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.

7474 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.

7476 Marketing Theory and Thought (3) Evolution of marketing concepts, terminology, principles, and theory; development of a frame of reference for understanding the meaning and consequences of theory; prediction of future theoretical development.

7477 Seminar in Advanced Marketing Problems (3) May be taken 3 times for credit. Topics may include consumer behavior and consumerism, promotion and communication, marketing research, international marketing, industrial marketing, and other areas of interest.

7711 Marketing Administration (3) Prereq: QBA 5014 and 7101. 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.

7713 Advanced Marketing Research (3) Prereq: MKT 4451 or 7711; and QBA 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.

7714 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.

7715 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.

7716 Advanced Marketing Research Techniques (3) Prereq: MKT 7711 and 7713. Advanced analytical designs and techniques applied to marketing research; theory and assumptions of analytical methods; marketing applications; use of computer programs in applying techniques; marketing strategy interpretations of the empirical results.

8000 Thesis Research (1-9 per sem.)

8900 Predissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-9 per sem.)

MATHEMATICS (MATH)

Sequence of Mathematics Courses

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 1552. 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.

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.

4022 Abstract Algebra (3) Prereq: MATH 2085 or equivalent. Credit will not be given for both this course and MATH 4023. Elementary properties of sets, relations, mappings, integers and rational numbers; groups, subgroups, normal subgroups, quotient groups, homomorphisms, automorphisms, and permutation groups; rings, ring homomorphisms, ideals and quotient rings, polynomial rings, and finite fields.

4023 Applied Algebra (3) Prereq: MATH 2085 or equivalent. Credit will not be given for both this course and MATH 4022. Finite algebraic structures relevant to computers: groups, graphs, groups and computer design, group codes, semigroups, finite-state machines.

4024 Mathematical Models (3) Prereq: MATH 1552 and credit or registration in MATH 2085; or equivalents. 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 equivalents. 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 equivalents. 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 equivalent. 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) Prereq: MATH 2057 or equivalent. Also offered as ME 4553. Ordinary differential equations, Laplace transforms, and Fourier series; physical applications stressed.

4038 Mathematical Methods in Engineering (3) Prereq: MATH 4037 or equivalent. Also offered as ME 4563. Several branches of applied mathematics: partial differential equations, orthogonal functions, vector analysis, and complex variables.

4039 Introduction to Topology (3) Prereq: MATH 4031 or equivalent. Examples and classification of two-dimensional manifolds, covering spaces, the Brouwer theorem, and other selected topics.

4055 Introduction to Probability (3) Prereq: MATH 2057. Credit will not be given for both this course and MATH 7310. Suggested for preparation for actuarial exams. Introduction to probability, emphasizing concrete problems and applications; topics include combinatorial analysis, random variables, conditional probability, special distributions, Law of Large Numbers, Central Limit Theorem, and Markov Chains.

4056 Mathematical Statistics (3) Prereq: MATH 4055. Suggested for preparation for actuarial exams. Topics include experimental design, sampling methods, nonparametric methods, hypothesis testing, and regression.


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.


4066 Numerical Analysis—II (3) Prereq: MATH 4065 and one of the following: MATH 2065, 2090, 4027, or 4037. Numerical solutions of initial value problems and boundary value problems for ordinary and partial differential equations.

4153 Finite Dimensional Vector Spaces (3) Prereq: MATH 2057 or 2085. Vector spaces, linear transformations, determinants, eigenvalues and vectors, and topics such as inner product space and canonical forms.

4158 Foundations of Mathematics (3) Prereq: MATH 2057 or equivalent. Real number systems, sets, relations, product spaces, order, and cardinality.

4171 Theory of Graphs (3) Prereq: MATH 2085 or equivalent. Fundamental concepts of undirected and directed graphs, trees, connectivity and traversability, planarity, colorability, network flows, matching theory, and applications.

4172 Combinatorics (3) Prereq: MATH 2085 or equivalent. Topics selected from permutations and combinations, generating functions, principle of inclusion and exclusion, configurations and designs, matching theory, existence problems, applications.

4181 Elementary Number Theory (3) Prereq: MATH 2057 or 2085. Divisibility, Euclidean algorithm, prime numbers, congruences, and topics such as Chinese remainder theorem and sums of integral squares.
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 equivalent. Linear algebra, rings, finite fields, groups, multilinear algebra, other topics.

7210-7211 Algebra—I, II (3, 3) Prereq: MATH 7200 or equivalent. Groups: Sylow Theorems, finitely generated abelian groups; rings and modules: exact sequences, projective modules; fields: algebraic, transcendental, normal, separable field extensions; Galois theory, valuation theory, noetherian and Dedekind domains, topics from commutative rings.

7280 Seminar in Commutative Algebra (1-3) 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 equivalent. 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 equivalent. 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 equivalents. 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 equivalent. Banach spaces and their generalizations; Baire category, Banach-Steinhaus, open mapping, closed graph, and Hahn-Banach theorems; duality in Banach spaces, weak topologies; other topics such as commutative Banach algebras, spectral theory, distributions, and Fourier transforms.

7340 Probability, Measure, and Integration (3) Prereq: MATH 7301 or equivalent. Probability spaces, random variables, expectation, convergence of random variables, L² 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 equivalent. 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 equivalent. 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 equivalents. Basic concepts of homology, cohomology, and homotopy theory.

7550 Differential Geometry (3) Prereq: MATH 7200 and 7301; or equivalents. Manifolds, vector fields, Frobenius Theorem, exterior calculus, Stokes' 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 equivalent. 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.)

2333 Principles of Thermodynamics—1 (3) Prereq: grade of "C" or better in CHEM 1202, MATH 1552, and PHYS 2101; or equivalent courses. Required for students majoring in mechanical engineering. Basic laws of thermodynamics and behavior of gases and vapors.

2733 Materials of Engineering (3) Prereq: grades of "C" or better in CHEM 1202 and PHYS 2101; credit or registration in PHYS 2102. Credit will not be given for both this course and ME 3743. Classification and study of engineering materials, their structure, properties, and behavior; typical metals and alloys, plastics and rubber, and ceramic materials; phase equilibria and manipulation of properties and behavior by adjustment of composition and processing variables; responses of engineering materials to stresses and environmental variables.

2833 Fluid Mechanics (3) Prereq: CE 2450. Same as CE 2200. Statics and dynamics of continuous liquids and gases; control volume laws; conservation of mass, momentum, and energy; dimensional analysis and similitude; applications to pipe flows, boundary layers, isentropic compressible flow.

3133 Dynamics (3) Prereq: CE 2450 and MATH 1552. 2 hrs. lecture; 2 hrs. recitation. Vectors, principles of kinematics and kinetics of particles and rigid bodies; force, mass, acceleration; impulse and momentum; work and energy.

3249-3250 Engineering Practice (1-3,1-3) Su only Prereq: consent of instructor. Pass-fail grading. A minimum of 6 weeks of full-time employment by an industry participating in the summer program. Same as ENGR 3049-3050. Selected engineering problems in an industrial environment.

3333 Thermodynamics (3) Prereq: PHYS 2102 and MATH 1552; 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.

3602 Fundamentals of Instrumentation (2) Prereq: EE 3950 and 3951; or equivalents. 1 hr. lecture; 3 hrs. lab. Basic measurements theory; instrumentation fundamentals; includes both analog and digital instrumentation.

3701 Materials of Engineering Laboratory (1) Prereq: ME 2733 or equivalent. 3 hrs. lab. Demonstrative and participative experiments to develop better understanding of characteristics of metals, ceramics, and plastics.

3743 Introduction to Materials Science (3) Credit will not be given for both this course and ME 2733. Basic principles relating properties and behavior of many engineering materials to their structures and environments.

3752 Material Selection for Mechanical Engineers (2) Prereq: ME 2733 or equivalent. Analysis of mechanical and other properties of engineering materials required for material selection; advanced engineering materials in mechanical engineering; applications; and problems in processing and shaping; materials in selected mechanical systems.

3801 Fluid Mechanics Laboratory (1) Prereq: ME 2833 and 3602. 3 hrs. lab. Demonstrations and experiments in fluid mechanics; experimental procedures and instrumentation in incompressible and compressible fluid flows; pressure, velocity, and force measurements.

3903 Special Projects for Undergraduates (3) Prereq: 2.50 cumulative GPA with consent of department. May be taken three times for credit. Library research, comprehensive design problems, and laboratory investigations.

4013 Nondestructive Testing (3) Prereq: credit or registration in EE 3950 or equivalent physics courses; or equivalent, 2 hrs. lecture; 3 hrs. lab. Same 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 1550 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—I (3) Prereq: CSC 2262 and ME 3133; or equivalents. Kinematic and dynamic analysis and synthesis of mechanisms.

4143 Mechanical Vibrations (3) Prereq: CE 3405, MATH 4037, and ME 4133; or equivalents. Basic principles of oscillating systems; single and multiple degrees of freedom; dynamic balancing; applications to mechanical systems.

4153 Kinematic Synthesis of Mechanisms (3) S Prereq: ME 4133 or equivalent. Three-dimensional mechanisms; emphasis on computer solution methods.


4172 Theory and Design of Mechanical Control Systems (2) Prereq: MATH 4037, ME 3602, and credit or registration in ME 4143. Basic principles and concepts of linear feedback control systems; stability analysis; root locus method; frequency response; compensation techniques.

4173 Vibration of Discretized Systems (3) S Prereq: ME 4143 or equivalent. Analysis of the oscillation of multidegree of freedom systems using finite difference, finite element, lumped parameter, and receptance techniques.

4183 Noise Control for Engineers (3) F Prereq: credit or registration in ME 4143 or graduate standing. Basic principles of acoustics; noise measurement; instrumentation; fundamental source theory; the application of silencers, barriers, and absorbent materials; case studies.

4201 Mechanical Engineering Design Laboratory (1) Prereq: ME 3602 and 4233 or equivalents; and credit or registration in ME 4143. 3 hrs. lab. Basic concepts in machine design.

4202 Mechanical Engineering Design—II (2) Prereq: ME 3752, 4232, 4233, 4343, 4433, and credit or registration in ME 4172. 6 hrs. lab. Principles from heat transfer, thermodynamics, design, fluids, and materials courses utilized to complete the project set forth in the preliminary design outline submitted in ME 4232.

4232 Mechanical Engineering Design—I (2) Prereq: ECON 2030. Coreq: ME 4233 and 4433. Design project, to be completed in ME 4202, will be selected and approved; project feasibility study and outline of the design project will be completed. Topics from design philosophy, optimization, product reliability and liability, economics, use of ASME codes, and professional ethics.
4233 Machine Design—II (3) Prereq: CE 3405, IE 2603, ME 3701, and ME 4133; 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) S Prereq: ME 4343 or equivalent or consent of instructor. Postural treatment of the laws of thermodynamics; equilibrium and maximum entropy postulates; development of formal relationships; principles and application to general systems.

4401 Heat Transfer Laboratory (1) Prereq: ME 3602 and 4433; or equivalents. 3 hrs. lab. Independent experimentation in conduction, convection, and radiation heat transfer.

4433 Heat Transfer (3) Prereq: ME 2333 or 3333, ME 4553 or MATH 4037, and ME 2833 or CE 2200; or equivalents. Principles of heat transfer by conduction, radiation, and convection.

4533 Engineering Use of Electronic Computers (3) F 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) See MATH 4037.

4563 Mathematical Methods in Engineering (3) See MATH 4038.

4611 Mechanical Engineering Laboratory (1) Prereq: ME 3602 and 4343; or equivalents. 3 hrs. lab. Written and oral presentations. System analysis and independent experimentation.

4633 Internal Combustion Engines (3) F Prereq: ME 2333 or 3333 or equivalent. Classification of internal combustion engines, gas turbines, cycles with different components, spark-ignition gasoline engines, detonation, carburetion, compression-ignition engines, combustion and diesel knock, fuel atomization and atomizers, combustion chambers, two- and four-stroke cycle engines, and supercharging.

4643 Thermal Environmental Engineering (3) S Prereq: ME 4343 and 4433; or equivalents. Thermal environment as applied to humans, animals, processes, and inanimate objects, and the means of controlling it.

4653 Safety Engineering (3) F 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) F Prereq: ME 4343 and 4433; 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 Introduction to Modern Control Theory (3) F Prereq: ME 4172 or equivalent. State space modeling, controllability, observability and stability, pole placement, optimal control laws via minimum principle and dynamic programming.

4713 Macroscopic and Microscopic Examination of Materials (3) S Prereq: ME 2733 or 3743 or equivalent. Survey of image forming systems for macroscopic and microscopic examination of materials; optics; photographic and electronic image storage; excitation by photons, electrons, ions, x-rays, and ultrasonic waves; topography and internal structure; demonstration of selected techniques.

4733 Deformation and Fracture of Engineering Materials (3) F Prereq: CE 3405 and either ME 2733 or equivalent. The effect of temperature, strain rate, corrosion, and microstructure on the stress-strain behavior and fracture of engineering materials, including metals, ceramics, and plastics.

4743 Principles of Physical Metallurgy (3) F Prereq: ME 2733 or equivalent; and any first course in thermodynamics. Theory of metals; emphasis on solidification and solid state transformation theory and related phenomena; thermodynamic and kinetic models used to describe transformation processes; physical and mathematical models used to describe crystal structure, point and line defects, deformation, and diffusion.

4763 Fundamentals of Corrosion Science and Engineering (3) F Prereq: ME 2733 or 3743 or equivalent, and any first course in thermodynamics. Corrosion principles; polarization, passivation, inhibition, and other phenomena; principal methods used in corrosion prevention.

4843 Gas Dynamics (3) F Prereq: MATH 4037 and ME 4343; or equivalents. Derivation and review of basic equations of compressible fluid flow; reduction of the general problem to 1-D flow; 1-D flow in nozzles with and without friction; 1-D flow with heat addition; normal shock wave, Prandtl-Meyer turn, and oblique shock waves.

4933 Advanced Topics in Mechanical Engineering (3) May be taken twice for credit with consent of department. Offered on demand. Two sections may be taken concurrently.

4943 Special Problems in Aerospace Engineering (3) Prereq: senior standing in mechanical engineering or related discipline. Aerodynamic problems of special interest in the analysis and design of water, land, air, and space transportation systems; typical topics include airplane performance and stability, aerodynamics, light-weight structures, space dynamics.

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) S 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 Vibration of Continuous Systems (3) Prereq: ME 4143 or equivalent. Analysis of continuous systems using Love's equations, Mushhtari-Vislova equation, and Galerkin method; shells of revolution, membranes, beams, and wires.

7163 Advanced Engineering Dynamics (3) V Prereq: ME 3133 and credit or registration in MATH 4016. Vector treatment of particle and rigid body dynamics in three dimensions; Lagrange's equations and Hamilton's principle.

7233 Advanced Machine Design (3) S Prereq: ME 4233 or equivalent.

7243 Bearing Design and Lubrication (3) S 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.

7253 Advanced Computer-Aided Design (3) Prereq: CSC 2262 or equivalent. Systematic application and integration of modern interactive computer graphics.

7263 Advanced Computer Graphics (3) Prereq: ME 4243 or equivalent. Mathematical elements of computer graphics; mathematical modeling of complex geometry in two and three dimensions for design, analysis and display; selected advanced topics in graphics.

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 7843 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.

7603 Advanced Experimental Methods (3) Prereq: consent of instructor. 2 hrs. lecture; 3 hrs. lab. Applied course in contemporary analog and digital laboratory tools and techniques.

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, and 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) S Prereq: credit or registration in ME 7701, or equivalent. 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) S Prereq: CE 4440 or equivalent. Plastic deformation of single crystals and polycrystalline aggregates; theories of ductile and brittle fracture; internal friction; fatigue, creep and stress rupture; residual stresses; plastic forming of metals.

7743 Physical Metallurgy (3) S Prereq: ME 3743 or graduate standing. Quantitative evaluation of metallurgical ideas; atomistic mechanisms, statistical mechanics, dislocation theory, and thermodynamic principles.

7753 Advanced X-Ray Metallography and Electron Diffraction (3) Prereq: ME 3743 or equivalent. X-rays applied to problems in materials science; small-angle x-ray scattering; x-ray diffraction in crystalline and amorphous media; principles of electron diffraction and electron microscopy.

7763 Advanced Corrosion Science and Engineering (3) S Prereq: ME 4723 or equivalent. Advanced topics in corrosion; stress corrosion, high temperature corrosion, hydrogen embrittlement, etc.; thermodynamics of surfaces and corrosion.

7773 Engineering Fracture Mechanics (3) Prereq: ME 4733 and either CE 4440 or 4460; or equivalents. Fundamentals of linear elastic fracture mechanics; elastic-plastic behavior; applications to brittle fracture, fatigue, and creep; fracture-safe design and control.

7783 Dislocation Mechanics (3) Prereq: CE 3405, MATH 4037, and ME 2733; or equivalents. Theory of dislocations with applications to strengthening mechanisms; the interaction of dislocations with point defects, other dislocations, and grain boundaries and precipitates.

7833 Inviscid Fluid Flow (3) Prereq: ME 7863 or equivalent. Advanced topics in potential flow theory and gas dynamics; multidimensional compressible flow; introduction to computational gas dynamics.

7843 Viscous Fluid Flow (3) Prereq: ME 7863 or equivalent. Navier-Stokes Equations; Stokes and Oseen approximations for low Reynolds number flows; incompressible boundary layer theory; transition; introduction to turbulent boundary layers, compressibility effects, and numerical methods.

7853 Advanced Boundary Layer Theory (3) Prereq: ME 7843 or equivalent. Non-Newtonian and turbulent fluid mechanics.

7863 Fluid Dynamics (3) F Prereq: credit or registration in MATH 4038 or equivalent. Fundamental fluid dynamics as continuum mechanics; potential flow using complex variables in two dimensions and superposition in three dimensions; ...
Microbiology

1001 Microorganisms and Man (3) Credit will not be given for both this course and MBIO 2051. Not open to microbiology majors. World of microorganisms and their relationship to people; emphasis on microbial form and function and on the role of bacteria in health and disease, ecology, and industry from food production to genetic engineering.

1002 Microorganisms and Man Laboratory (1) Prereq: credit or registration in MBIO 1001. 2½ hrs. lab. Credit will not be given for both this course and MBIO 2051. Not open to microbiology majors. Basic laboratory skills for handling and observing microorganisms; demonstration of features of microorganisms discussed in MBIO 1001.

2051 General Microbiology (4) F,S,Su Prereq: CHEM 1001 or 1201. 2 hrs. lecture; 4 hrs. lab. Credit will not be given for both this course and MBIO 1001 or 1002. Structure and function of microbial cells and their relationship to people and the environment.

2155 Morphologic Hematology (3) F,S See ALLH 2155.

2157 Medical Mycology (3) F,S See ALLH 2157.

3115 Advanced General Microbiology (4) F Prereq: MBIO 2051 and organic chemistry. 2 hrs. lecture; 4 hrs. lab. Growth and differentiation of microorganisms; definition, quantitation, regulation, and manipulation of these processes; their importance in basic, applied, and medical research.

4090 Marine Microbiology (3) See MRSC 4090.

4110 Introductory Microbial Physiology (3) F,S,Su Prereq: MBIO 2051 and organic chemistry; or equivalent. Concepts of bacterial nutrition, metabolism, adaptation, and genetics, as related to growth and environment.

4111 Microbial Physiology Laboratory (2) V 6 hrs. lab. Laboratory techniques used to study growth, metabolism, and cellular control of microorganisms.

4121 Immunology and Serology (4) F Prereq: MBIO 2051. 2 hrs. lecture; 4 hrs. lab.

4122 Pathogenic Microbiology (4) S Prereq: MBIO 4121 or equivalent. 2 hrs. lecture; 4 hrs. lab.

4146 Genetics of Bacteria and Bacteriophage (3) F,S Prereq: MBIO 4110 or equivalent. Mutation in bacteria, conjugation, transformation, and transduction; physiology of bacteriophage, bacteriophage as genetic material, chemical basis of heredity, and molecular aspects of mutation.

4147 Biology of Eukaryotic Microorganisms (4) Prereq: MBIO 2051, and 3115 or equivalent. 2 hrs. lecture; 4 hrs. lab. Molecular biology, physiology, genetics, morphology, development, and taxonomy of yeasts, molds, slime molds, algae, and protozoa.

4156 Soil Microbiology (4) See AGRO 4036.

4161 Microbiology of Water, Sewage, and Industrial Wastes (4) V Prereq: MBIO 3115 and 4110; or equivalents. 2 hrs. lecture; 4 hrs. lab.

4162 Microbiology of the Dairy and Food Industries (4) V Prereq: MBIO 2051, and either 3115 or 4110; or equivalents. 2 hrs. lecture; 4 hrs. lab. Also offered as FDSC 4162.

4163 Industrial Microbiology (4) S Prereq: MBIO 3115 or 4110; or equivalent. 2 hrs. lecture; 4 hrs. lab. Microbes used in industrial processes such as production of chemicals, antibiotics, and vitamins.

4180 Cell Culture (3) S Prereq: MBIO 2051. 1 hr. lecture; 4 hrs. lab. In vitro growth and development of cells derived from plants and animals.

4190 Introductory Virology (2) F Viruses and their host cells; role and significance of viruses in the environment.

4395 Marine Field Microbiology (4) See MRSC 4395.

4919, 4920 Current Microbiological Literature (1,1) F,S Prereq: MBIO 3115 or 4110.

4933, 4934 Special Problems in Microbiology (2,2) F,S,Su 1 hr. conference; 4 hrs. lab.

7022 Marine Microbial Ecology (3) See MRSC 7020.

7148 Microbial Anatomy and Ultrastructure (2) V Prereq: MBIO 4110 or equivalent. Structure of various microbial forms.

7150 Special Topics in Microbiology (2) V Prereq: 6 sem. hrs. of microbiology beyond MBIO 2051. May be taken twice for credit when subject matter changes. Specialized areas of current interest in microbiology.

7161 Higher Bacteria (3) V Prereq: MBIO 4110 or equivalent. Microbial systematics and ecology; emphasis on morphology and physiology of the higher bacteria.

7162 Molecular Biology of Microorganisms (3) Prereq: MBIO 4146, and either MBIO 4110 or BCH 4084; or equivalents. Synthesis, activity, and interactions of various molecular components of microbial cells; emphasis on macromolecules and their relationship to cellular function and heredity.

7163 Advanced Technology of Molecular Biology—Genetic Aspects (3) V Prereq: credit or registration in BCH 7280 or MBIO 7162. 1 hr. lecture; 6 hrs. lab. Same as BCH 7163. Laboratory techniques used to study mutation, chromosomal mapping, conjugation, and transduction in bacteria and their phages.

7164 Advanced Technology of Molecular Biology—Biochemical Aspects (3) V Prereq: credit or registration in BCH 7280 or MBIO 7162. 1 hr. lecture; 6 hrs. lab. Same as BCH 7164. DNA cloning (between prokaryotes), mapping of restriction enzyme cutting sites, sequencing, heteroduplex, ultracentrifugation, and gel electrophoresis; principles of genetics emphasized.

7171 Laboratory in Higher Bacteria (2) V Prereq: credit or registration in MBIO 7161. 4 hrs. lab. Techniques used to isolate and examine higher bacteria.

7701 Electron Microscopy (2) S 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) S Prereq: credit or registration in MBIO 7701 or equivalent. 9 hrs. lab. Same as BOTY 7702 and ZOOL 7702. Preparation of biological specimens for transmission electron microscopy; use of the electron microscope.

**7703 Scanning Electron Microscopy Laboratory: Biological Materials** (2) S,Su Prereq: credit or registration in MBIO 7701 or equivalent. 6 hrs. lab. Same as BOTY 7703 and ZOOL 7703. Preparation of biological specimens for scanning electron microscopy; use of the S-500 SEM.

**7919, 7920 Advanced Seminar** (1,1) F,S,Su Prereq: admission to the Ph.D. program.

### MILITARY SCIENCE (MILS)

**1011 First-Year Basic Army** (1) F,Su 1 hr. lecture; 1½ hrs. lab. Orientation, organization of the Army and ROTC, individual weapons; leadership and adventure training.

**1012 First-Year Basic Army** (1) S,Su 1 hr. lecture; 1½ hrs. lab. U.S. Army and national security; leadership and adventure training.

**2061 Second-Year Basic Army** (2) F,Su 2 hrs. lecture; 1½ hrs. lab. Map reading, small-unit tactics, and adventure training.

**2062 Second-Year Basic Army** (2) F,S,Su 2 hrs. lecture; 1½ hrs. lab. American military history and adventure training.

**3011 First-Year Advanced Army** (2) F 2 hrs. lecture; 1½ hrs. lab. Leadership, military training, professional officer development.

**3012 First-Year Advanced Army** (2) S 2 hrs. lecture; 1½ hrs. lab. Small-unit tactics, branches of the Army, pre-camp orientation; leadership, drill, and command.

**3061 Second-Year Advanced Army** (2) F 2 hrs. lecture; 1½ hrs. lab. Orientation, staff organization and functions, operations, logistics, troop movement, and Army readiness; leadership and command.

**3062 Second-Year Advanced Army** (2) S 2 hrs. lecture; 1½ hrs. lab. Administrative management, military justice, obligations and responsibilities of an officer; leadership and command.

### MUSIC (MUS)

**Applied Music and Ensemble Courses**

Applied music instruction in the MUS 3130-3149 sequence is offered for three semester hours during the academic year and 1.5 semester hours during the summer term. Courses in the MUS 3130-3149 sequence consist of 60 minutes of instruction per week; courses in the MUS 3170-3189 sequence consist of 30 minutes of instruction per week. Instructor assignments are made by the School of Music. All applied music and ensemble courses may be repeated for credit every semester.

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<tr>
<th>APPLIED MUSIC COURSES</th>
<th>60-minute lesson per week</th>
<th>30-minute lesson per week</th>
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<tr>
<td>3130 Voice (1.5 or 3)</td>
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<td>3170 Voice (1.5)</td>
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<td>3131 Piano (1.5 or 3)</td>
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<td>3171 Piano (1.5)</td>
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<td>3132 Harpsichord (1.5 or 3)</td>
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<td>3133 Organ (1.5 or 3)</td>
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<td>3173 Organ (1.5)</td>
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<td>3134 Harp (1.5 or 3)</td>
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<td>3135 Violin (1.5 or 3)</td>
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<td>3136 Viola (1.5 or 3)</td>
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<td>3137 Cello (1.5 or 3)</td>
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<td>3138 String Bass (1.5 or 3)</td>
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<td>3140 Oboe (1.5 or 3)</td>
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<td>3180 Oboe (1.5)</td>
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<td>3141 Clarinet (1.5 or 3)</td>
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<td>3181 Clarinet (1.5)</td>
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<td>3142 Saxophone (1.5 or 3)</td>
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<td>3182 Saxophone (1.5)</td>
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<td>3143 Bassoon (1.5 or 3)</td>
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<td>3144 Trumpet (1.5 or 3)</td>
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<td>3145 French Horn (1.5 or 3)</td>
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<tr>
<td>7000 Graduate Applied Music (2.5 or 5)</td>
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3183 Bassoon (1.5)
3184 Trumpet (1.5)
3185 French Horn (1.5)
3186 Euphonium (1.5)
3187 Trombone (1.5)
3188 Tuba (1.5)
3189 Percussion (1.5)
7050 Graduate Applied Music (2.5)

**ENSEMBLE COURSES**

Auditions for new students are held during registration at the beginning of each semester.

4220 Piano Chamber Music (1)
4221 Vocal Chamber Music (1)
4222 Woodwind Chamber Music (1)
4223 Brass Chamber Music (1)
4224 String Chamber Music (1)
4225 Collegium Musicum (1)
4226 Percussion Ensemble (1)
4227 Marimba Ensemble (1)
4228 New Music Ensemble (1)
4230 Gospel Choir (1)
4231 Swing Choir (1)
4232 Men's Chorus (1)
4233 Women's Chorus (1)
4234 University Chorus (1)
4236 A Cappella Choir (1)
4240 Opera Chorus (1)
4241 Opera Theater (2)
4250 Tiger Marching Band (1)
4251 Wind Ensemble (1)
4252 Concert Bands (1)
4253 Jazz Band (1)
4260 Philharmonia (1)
4261 Symphony Orchestra (1)

**General Courses**

1001-1002 **Voice Class** (2,2) *Open to students not majoring in music with consent of instructor.* Group instruction in voice production.

1018-1019 **Diction for Singers** (2,2) *Required in the Bachelor of Music curriculum in voice even though the respective languages are studied.* Phonicetics and phonemes used in singing in different languages; 1018 includes the phonetic alphabet, English and German diction; 1019 includes Italian and French diction.

1105, 1106 **Piano Class** (2,2) *Open only to music majors.* Instruction for the beginner and lower intermediate student.

1107 **Secondary Piano** (3) 2 half-hour lessons. May be taken twice for credit.

1108-1109 **Piano Class** (2,2) 1 hr. lecture; 2 hrs. lab. *Open only to nonmusic majors.* Instruction for the beginner and lower intermediate student.

1700 **Recital Hour** (0) May be repeated. Pass-fail grading. Weekly student recital and music seminar.

1701 **First-Year Theory** (4) 5-6 hrs. lecture and lab. *Lab assignments depend on student's needs.* Elements of form, melody, rhythm, harmony, and aural skills.

1702 **First-Year Theory** (4) *Prereq: MUS 1701 or equivalent.* 5-6 hrs. lecture and lab. *Lab assignments depend on student's needs.* Elements of form, melody, rhythm, harmony, and aural skills.

1742 **Introduction to Composition** (3) *Prereq: MUS 1701 or equivalent.* Compositional techniques, analysis, and audition of selected works.

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 with 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 Literature and Appreciation** (2,2) *For students majoring in music; open to others by consent of instructor.* Western art music from medieval Gregorian chant to 20th-century serialism.

1799 **Rudiments of Music** (3) *Not open to music majors.* The grammar of music, including basic notation and elementary construction leading to a study of tonal harmony.

2170 **Music Education in the Elementary School—I** (3) Music fundamentals, materials, methods, and skills involved in teaching general music in the elementary school.

2171 **Music Education in the Elementary School—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.

2300 **Instrumental Techniques** (1-3) *May be repeated for credit.* For prospective secondary school teachers. Development of fundamental skills in wind and percussion instruments.

2301 **Class Strings** (3) *Open only to string majors for study of secondary string instruments.* Beginning group instruction.

2711 **Theory** (4) *Prereq: MUS 1702.* Elements of harmony, melody, rhythm, and keyboard and aural skills.

2712 **Theory** (4) *Prereq: MUS 2711.* A continuation of MUS 2711.

2741 **Composition Techniques**—I (3) *Prereq: MUS 1742 or equivalent.* Basic part-writing in 20th century idioms; analysis and audition of selected scores.

2742 **Composition Techniques**—II (3) *Prereq: MUS 2741 or equivalent.* Continuation of MUS 2741.

2751 **Jazz Improvisation**—I (2) *Prereq: MUS 2712 or equivalent.* Introductory performance course in jazz improvisation; emphasis on its theoretical basis.

2752 **Jazz Improvisation**—II (2) *Prereq: MUS 2751 or equivalent.* Continuation of MUS 2751.

3018 **Vocal Pedagogy** (3) *Prereq: 12 sem. hrs. of applied voice study.* Principles and processes of voice production; psychology of teaching and studying singing; beginning comparative pedagogy; vocal repertoire for beginning singer.
3700 Theory Survey (2) Admission by placement examination. 4 hrs. lab. Written and aural aspects of theory.

3711 Form and Analysis (3) Prereq: MUS 2711. Evolution of forms and textures of representative works from various periods of music history.

3741 Composition (3) Prereq: MUS 2742 or equivalent. May be repeated for credit. Composing in various forms and for various media.

3748 Choral Conducting (2) Credit will not be given for both this course and MUS 3749. Elements of conducting choral groups.

3749 Choral Literature and Conducting—I (3) Credit will not be given for both this course and MUS 3748. Elements of conducting choral groups; survey of choral literature for secondary school teaching.

3750 Choral Literature and Conducting—II (3) Prereq: MUS 3749 or equivalent. Continuation of MUS 3749.

3751, 3752 Song Literature (3,3) 3 hrs. combined lecture/lab. Survey course in song literature.

3757-3758 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.

3771 Instrumental Conducting—I (2) Elements of conducting instrumental groups.

3772 Instrumental Conducting—II (1) Prereq: MUS 3771 or equivalent. Continuation of MUS 3771.

3997 Directed Studies in Music (1-3) Prereq: consent of departmental faculty concerned and dean of the School of Music. May be repeated for credit for a maximum of 6 sem. hrs. MUS 3997 cannot be used in lieu of a required course in any School of Music curricula.

4101 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.

4102 The Advanced Coaching and Accompanying of Art Songs (2) Open to singers and pianists who have completed the sophomore year, or its equivalent, in their major performance areas.

4701-4702 Organ Practicum (2,2) Prereq: consent of instructor. Techniques of service playing; techniques and materials of organ pedagogy.

4703 The Scientific Bases of Music (2) Musical acoustics, including nature and generation of sound and computation of intervals and scales within various systems of tuning and temperament.

4712 Advanced Form and Analysis (3) Prereq: MUS 3711. Complex forms and harmonic techniques of the 19th and 20th centuries.

4719 Advanced Harmony (3) Prereq: MUS 2712. Musical style of the 19th century; chromatic harmony, complex tetric sonorities, foreign modulation, free-voice writing, and expressionistic style.

4720 20th-Century Harmony (3) Prereq: MUS 2712. Impressionistic harmony, tetric sonorities with added tones, quartal harmony, and other techniques of the pre-serialistic school.

4721-4722 Modal Counterpoint (3,3) Prereq: MUS 2712 or equivalent. MUS 4721 is a prerequisite for 4722. 16th-century counterpoint.

4723 Tonal Counterpoint (3) Prereq: MUS 2712 or equivalent. Writing of counterpoint in two and three parts to a given cantus firmus; imitative contrapuntal forms such as the invention and the fugue.

4724 Advanced Tonal Counterpoint (3) Prereq: MUS 4723 or equivalent. Writing of contrapuntal forms in four and five parts with use of advanced contrapuntal techniques and expanded harmonic vocabulary.

4730 Elementary Orchestration (2) Prereq: MUS 2712. Traditional scoring practices.

4731 Intermediate Orchestration (2) Prereq: MUS 4730. Orchestrating for full orchestra including extraordinary instruments; avant-garde orchestral practice.

4732 Band Arranging (2) Prereq: MUS 2712. Scoring for band; includes transcription from other media and original composition.

4743 Electronic Music Composition (3) Prereq: composition in other media and consent of instructor. May be repeated for credit. Use of equipment in the electronic studio; compositional techniques used in construction of electronically assembled works.

4751 Survey in Music History—I (2) Prereq: MUS 1754 or equivalent. Required for students majoring in music; open to others with consent of instructor. Music of the western world from ancient Greece to ca. 1700.

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.

4753 Folk and Traditional Music—Music History and Literature (2) Background and history of folk and traditional music; emphasis on Anglo-American folk songs.

4754 Folk and Traditional Music—Music History and Literature (2) Prereq: MUS 4753 or equivalent. Extension of study of unwritten music of folk cultures; emphasis on Afro-American styles.

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.

4757 Piano Literature—I (2) Changing styles and forms of keyboard music from early examples to 1700.

4758 Piano Literature—II (2) Keyboard styles and forms from the time of J.S. Bach through the end of the 18th century.

4759 Piano Literature—III (2) Piano literature from Beethoven through the end of the 19th century.

4760 Piano Literature—IV (2) 20th-century piano literature from Impressionism through the most recent trends.

4761, 4762 The Care and Repair of Band and Orchestral Instruments (1,1) Prereq: MUS 2300 or equivalent. 2 hrs. lab. For students with experience in instrumental music and a practical knowledge of the problems in instrumental upkeep.

4763-4764 Piano Methods and Materials (3,3) Materials and techniques for the piano teacher.

4766 Marching Band Techniques (2) Charting techniques for marching band; emphasis on contemporary drill design; practical projects in charting drill.
4769, 4770 Supervised Studio Instruction (2,2) Program tailored to needs of each student by the major applied teacher who supervised the student's studio teaching program.

4789, 4790 Musical Theatre Production (2,2) Each course may be repeated for credit. Open to 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 non-majors. 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 equivalents. 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 Composition Recital (1) Concert of solo and chamber works.

4799 Coaching in Applied Music (2) Prereq: MUS 4797 and recommendation of the applied-music faculty concerned. May be repeated for credit.

7170, 7171 Advanced 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 Practices of Musical Theory (3,3) Courses ordinarily taken in sequence. Important writings dealing with theory.

7703 20th-Century Musical Practices (3) May be taken twice for credit.

7711 Seminar in 20th-Century Musical Analysis (3) May be taken twice for credit. Analytical study of specific composers, works, or styles.

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) History of music from ancient Greeks and Hebrews through the 14th century.


7753 Music in the Baroque Era (3)

7754 Music in the Classical Era (3)

7755 Music in the Romantic Era (3)

7756 Music in the Modern Era (3)

7757 American Music (3) The most important phases in development of music in the U.S.

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 4797 or equivalent.

7799 Advanced Coaching in Applied Music (2) Prereq: MUS 7798 or equivalent. May be taken twice for credit.

800 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.

7901 Seminar in Musical Composition (1-3) May be repeated for credit. A total of 6 sem. hrs. of credit is applicable to the M.M. degree with concentration in composition. Participation in the Composer's Forum 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.

7905, 7906 Seminar in Music Education (2-6,2-6) Each course may be taken 3 times for credit. Only 6 sem. hrs. are applicable to the M.M. Ed. degree; only 12 additional sem. hrs. are applicable to the Ph.D.; maximum for M.M. Ed. and Ph.D. combined is 18 sem. hrs.

7921 Seminar in Music Theory (3) Primarily for master's candidates. May be taken twice for degree credit. In-depth exploration of subjects specifically relating to music theory.

7979 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 study of subjects specifically relating to music theory.

9758, 9759 Repertoire (3,3) Each course may be taken 3 times; however, amount of credit applicable to a degree is determined by student's advisory committee.

9901 Doctoral Seminar in Musical Composition (1-3) May be repeated for credit; maximum amount of credit applicable to a degree is 12 sem. hrs. Participation in the Composer's Forum is part of coursework.

9909 Seminar in Scoring for Various Media (2) Prereq: MUS 3711, 4719, 4730, and 4731; or equivalents. 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 (NS)

Students and staff utilizing facilities of the Nuclear Science Center must take, as their initial training, Nuclear Science 3411 or 4101, or must have equivalent prior training or experience.

2051 Contemporary Radiological Science (3) F,S Prereq: one semester of chemistry or physics. Radioactivity in nature; synthetic radionuclides and radiation sources; radiological applications in industry, chemistry, biomedical sciences, engineering, and energy production; radiological safety.

3411 Nuclear Applications in the Physical Sciences and Engineering (3) F,S Prereq: one semester of chemistry or physics. 2 hrs. lecture; 3 hrs. lab. Nuclear structure, transmutation, decay, and their applications in industry and research.

4101 Tracer Methodology for Biological Sciences (3) F,S 2 hrs. lecture/demonstration; 3 hrs. lab. Specifically for students in the biological sciences. Properties of ionizing radiation, instruments for detecting and measuring radiation, and biological uses of radioisotopes.

4141 Radioecology (3) F Prereq: NS 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Also offered as ENVS 4141. Radiotracers, stable tracers, and radiation effects in both natural and laboratory-contained communities of organisms.

4331 Radiation Hazards and Control (4) F Prereq: NS 3411 or 4101 or equivalent. 3 hrs. lecture; 3 hrs. lab. Consequences of human exposure to high-energy radiation; control of radiation hazards, including exposure limits, detection techniques, shielding, laboratory design, emergency action, and federal and state regulations.

4351 Advanced Radiation Detection and Measurement (3) V Prereq: NS 3411 or 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Operation, construction, and application of radiation detection systems; selection, calibration, and electronic matching of systems to counting problems; sophisticated systems for counting and for control of engineering systems.

4412 Advanced Tracer Methodology for Physical Sciences (3) V Prereq: NS 3411 or equivalent. 2 hrs. lecture/demonstration; 3 hrs. lab. Production and use of radioisotopes; application of nonradioactive nuclides as tracers.

4425 Computer-Aided Nuclear Design (3) F Prereq: CSC 1241 and NS 2051; or equivalents. Application of available computer programs to a broad spectrum of problems in nuclear science.

4481 Industrial Applications of Radioisotopes (3) S Prereq: NS 2051 or 3411 or equivalent. 2 hrs. lecture; 3 hrs. lab. Radioisotope applications pertinent to industry, measuring wear, mixing efficiency, fluid density, solids density, washing efficiency, flow conditions, radiography, bulk inventory, etc.

4494 Nondestructive Testing (3) Prereq: credit or registration in EE 3950 or equivalent physics courses; or equivalent. 2 hrs. lecture; 3 hrs. lab. Same as ME 4013. 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.

4527 Nuclear Reactor Theory and Design (3) F,S Prereq: two semesters of physics. Theories of various nuclear reactors and design of operating nuclear reactors.

4566 Nuclear Reactor Systems (3) F 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) S 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) F,S 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) S Prereq: NS 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Qualitative and quantitative aspects of tracer applications in
modern biological research; combining tracer technique with other analytical methods.

7121 Radiobiology (3) S Prereq: NS 4101 or equivalent. 2 hrs. lecture; 3 hrs. lab. Effects of ionizing radiation on biological systems, including machine-made radiation sources such as x-ray and ultra-violet light and their resulting interactions on molecular, cellular, and organ-system levels of biological organization.

7331 Radiation Dosimetry (3) V Prereq: NS 4331 or equivalent. Methods for measuring radiation fields and absorbed radiation doses by ion-collection devices, photographic methods, solid-state systems, chemical systems, and calorimetric methods, as applied to isotopic and machine sources.

7520 Nuclear Reactor Materials (3) V Principles governing structure and properties of materials used in nuclear reactors; radiation effects, problems in selection, fabrication, and use of these materials.

7525 Reactor Laboratory (Sub-Critical) (2) S Prereq: credit or registration in NS 7527. 6 hrs. lab.

7527-7528 Reactor Engineering (3,3) F,S Prereq: consent of department. NS 7527 is a prerequisite for 7528. Homogeneous and heterogeneous reactors, diffusion, and transport theories for neutron flux calculations; criticality calculations; two-group and multi-group methods; transient behavior and reactor control; temperature and void effects; perturbation theory.

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: EGR 1001, MATH 1552, PETE 2020, PHYS 2101, and PHYS 2108. Steady-state flow and fluid distribution in reservoir rock as influenced by porosity, permeability, fluid saturations, and wettability; electrical, elastic, and nuclear properties.

3032 Phase Behavior of Hydrocarbon Systems (3) Prereq: CHEM 2261, EGR 1001, MATH 1552, PETE 2020, PHYS 2101, and PHYS 2108. Theory and application of phase behavior and thermodynamics to reservoir and surface systems of complex hydrocarbon mixtures.

3034 Rock and Fluid Properties Laboratory (1) Prereq: credit or registration in both PETE 3031 and 3032 (CHE 3173 may replace PETE 3032). 3 hrs. lab.

3035 Economic Aspects of Petroleum Production (3) Prereq: MATH 1431 or 1550. Mineral ownership and leasing in Louisiana; profitability analysis; risk analysis; evaluation of petroleum properties.

3036 Introductory Well Logging (3) Prereq: EE 2950, PETE 3031, 3034, and PHYS 2102, 2109. Quantitative and qualitative formation evaluation by means of electric, acoustic, and radioactive well logs.

3053 Petroleum Engineering Aspects of Subsurface Geology (3) Prereq: GEOL 3031 and PETE 3036. Engineering aspects of petroleum geology; interpretation of subsurface data; reservoir mapping; determination of reservoir volume.

3990 Independent Research (1-2) May be repeated for credit for a 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.

7530 Nuclear Shielding Analysis and Design (2) F 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) S Prereq: MATH 4036, 4060, and NS 4527; or equivalents. 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 static system analysis; advanced energy systems.

7652 Radiation Effects on Nonmetals (4) V 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) V Prereq: NS 3411 or 4101 or equivalent. 1 hr. lecture/demonstration; 3 hrs. lab. Nuclear transmutations, radiation detection-measurement, data reduction, and laboratory techniques.

7995 Seminar (1) F,S Required every semester for degree candidates in nuclear engineering. Only 1 sem. hr. of credit may be counted toward degree.

8000 Thesis Research (1-9 per sem.)
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 (CHE 3173 may replace PETE 3032). 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 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. 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.)

9000 Dissertation Research (1-9 per sem.)

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.

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; philosophic assumptions underlying logic and relevance of formal logic to philosophic questions.

2018 Professional Ethics (3) Special problems of obligation and valuation related to law, medicine, politics, and education, as well as business, engineering, and architecture; 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) Major aesthetic theories.

2024 Philosophy in Literature (3) Philosophical themes implicit in the writings of eminent novelists, dramatists, and poets.

2025 Bioethics (3) Defining health and disease; deciding on rights, duties, and obligations in the patient-physician relationship; abortion and the concept of a person; defining and determining death; euthanasia and the dignity of death; allocation of medical resources, both large-scale and small-scale; experimentation with fetuses, children, prisoners, and animals; genetic testing, screening, and interference.

2028 Philosophy of Religion (3) Same as REL 2028. Essence and meaning of religion as a pervasive phenomenon in human societies; faith and reason, nature of divinity, arguments for and against God's existence, religious knowledge and experience, morality and cult, the problem of evil.

2033 History of Ancient and Medieval Philosophy (3) An honors course, PHIL 2034, is also available. Introduction to philosophy through a study of some of the main writings of classical and medieval philosophy.
2034 HONORS: Tutorial in Ancient and Medieval Philosophy (1) To be taken concurrently with PHIL 2033. 1 hr. of tutorial instruction per week for honors students.

2035 History of Modern Philosophy (3) An honors course. PHIL 2036, is also available. Introduction to philosophy through a study of some of the main writings of modern philosophy.

2036 HONORS: Tutorial in Modern Philosophy (1) To be taken concurrently with PHIL 2035. 1 hr. of tutorial instruction per week for honors students.

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 GPA of at least 3.00 in all work taken. Readings, conferences, and reports under faculty direction.

3001 Existentialism (3) Basic themes of existentialist philosophy; the works of such important philosophers as Kierkegaard, Nietzsche, Jaspers, Heidegger, Camus, Marcel, and Sartre.

3002 Philosophy and Film (3) Films as philosophical texts.

3901 HONORS: Directed Readings in Philosophy (3) Prereq: PHIL 2033 and 2035; or equivalents.

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 equivalent. Modern symbolic logic, with emphasis on formal axiomatic method and metatheory of formal calculi.

4011 Advanced Logic (3) Prereq: PHIL 4010 or equivalent. Advanced metatheory and the axiomatic foundations and applications of intensional logics.

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 equivalents. 19th-century philosophy, with emphasis on German thought: readings in Fichte, Hegel, Marx, Nietzsche, Bergson, etc.

4938 Philosophical Thought in America (3) Late 19th and early 20th centuries; topics from such philosophers as Peirce, James, Royce, Dewey, Santayana, Ward, and Mead.

4941 Philosophy of Mind (3) Prereq: PHIL 2033 and 2035; or equivalents. Recent philosophical treatments of human nature; the mind-body problem, identity of the person in time, the person as rational and volitional, and relation of the person to the world.

4943 Problems in Ethical Theory (3) Prereq: two courses in philosophy or consent of instructor. Recent developments in ethics, including material from analytic and existential-phenomenological traditions.

4944 Philosophical Theology (3) Prereq: two courses in philosophy or consent of instructor. Same as REL 4944. Major works in philosophical theology by such authors as Hartshorne, Farrer, Tillich.

4945 Political Philosophy (3) Prereq: PHIL 1011 or 2020 or equivalent. Freedom, obligation, authority, justice, law, the state, and revolution.

4948 Phenomenology (3) Prereq: PHIL 2035 or 4936 or equivalent. Contemporary phenomenology; reading in Husserl.

4951 Philosophy of Science (3) Prereq: consent of instructor. Philosophical issues related to concept formation and theory construction in the natural, behavioral, and social sciences.

4953 Contemporary Analytic Philosophy (3) Prereq: one logic course and either PHIL 2035 or 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 (PHSC)

1001-1002 Physical Science (3,3) Prereq: MATH 0005 or equivalent or an ACT math score of at least 21. 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; no student will be allowed to receive credit for PHSC 1001 and any other college-level physics course or for PHSC 1002 and any other college-level astronomy or physics course. Significant developments in astronomy and physics, with introductions to chemistry and geology.
PHYSICS (PHYS)

Prerequisites: All prerequisites in physics courses should be rigidly observed. Courses listed to the left of 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 midterm examination period.

Physics 7223, 7235, 7236, 7260, 7281, 7282, 7343, 7363, 7364, 7373, 7374, 7455, 7553, 7783, 7893, 7895, 7896 are rotated so as to offer a varied curriculum. Only three of the above courses are normally offered in the fall or spring semesters.

1201-1202 General Physics for Physics Majors (3,3) F,S Prereq. (for 1201): credit or registration in MATH 1550; (for 1202): credit or registration in MATH 1552. 3 hrs. lecture/demonstration. Primarily for students intending to major in physics. Credit will not be given for these courses and PHYS 2001-2002 or 2101-2102. Fundamentals of classical physics; calculus and vector analysis introduced and used in development of subject matter.

1208-1209 General Physics Laboratory for Physics Majors (1,1) F,S Prereq. (for 1208): credit or registration in PHYS 1201; (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 1022 or 1023. 3 hrs. lecture/demonstration. Credit will not be given for these courses and PHYS 1201-1202 or 2101-2102. Mechanics, heat, sound, light, electricity, and magnetism; topics in modern physics.

2008-2009 General Physics Laboratory (1,1) Prereq. (for 2008): credit or registration in PHYS 2001; (for 2009): credit or registration in PHYS 2002. 3 hrs. lab. Credit will not be given for these courses and PHYS 1208-1209 or 2108-2109. Labs to accompany PHYS 2001-2002.

2101-2102 General Physics for Technical Students (3,3) Prereq. (for 2101): credit or registration in MATH 1552; (for 2102): credit in MATH 1553. 3 hrs. lecture/demonstration. For students majoring in mathematics, chemistry, or some area of engineering. Credit will not be given for these courses and PHYS 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. 3 hrs. lab. Credit will not be given for these courses and PHYS 2008-2009. Labs to accompany PHYS 2101-2102.

2111 Elementary Mathematical Physics (3) F Prereq: PHYS 1202 or 2102. Mathematical methods of physics; application to selected problems in physics.

2209 Introductory Modern Physics for Physics Majors (4) F Prereq: PHYS 1202 and 1209. 3 hrs. lecture/demonstration; 2 hrs. lab. Primarily for students intending to major in physics. Elementary modern physics.

2221 Mechanics of Particles and Rigid Bodies (3) S Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. Single particle dynamics, the harmonic oscillator, Lagrangian mechanics, central force motion, the inertia tensor, and rigid body dynamics.

2231 Electricity and Magnetism (3) S Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. Electricity and magnetism; static and quasi-static electromagnetic fields in vacua and in dielectric and magnetic media.

2401 Introduction to Concepts in Physics (3) V Prereq: MATH 1021 or an ACT math score of at least 25. Primarily for students in liberal arts and education. Historical evolution and underlying philosophy of principles of physics; provides appreciation of physics; does not develop technical skill.

2995 Research Internship (1) Prereq: consent of instructor and chairman of department. May be repeated for credit. Individual reading and theoretical and/or experimental research on introductory problems in physics.

4008 Physics Laboratory for Teachers (1) V 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) V 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) V Prereq: PHYS 1202 or 2102, and MATH 2065. Atomic and nuclear physics; emphasis on atomic and nuclear structure, nuclear radiation and energy, and applications.

4112 Intermediate Mathematical Physics (3) V Prereq: PHYS 2111 or CHEM 4581; and credit or registration in MATH 2065. Mathematical methods of physics, with application to selected problems in physics.

4122 Mechanics of Periodic and Cyclic Motions (3) V Prereq: PHYS 2221. Continuation of PHYS 2221; emphasis on oscillatory systems.

4125-4126 Thermodynamics and Statistical Mechanics (3,3) V Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. Basic physical concepts and methods appropriate for description of systems involving many particles; unified viewpoint of thermodynamics, statistical mechanics, and kinetic theory.

4132 Electromagnetism and Electromagnetic Waves (3) F Prereq: PHYS 2231. Continuation of PHYS 2231; emphasis on electromagnetic waves and radiation.

4135 Principles of Optics (3) V Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. Fundamental principles of physical optics and optical instruments.

4141-4142 Introduction to Quantum Mechanics (3,3) F,S Prereq: PHYS 2111 and credit or registration in MATH 2065; or CHEM 4581 and credit or registration in MATH 2065; or MATH 4037. Elementary principles of quantum mechanics.

4198 Advanced Modern Physics Laboratory (3) S Prereq: PHYS 2209 or 4055 or 4141. 1 hr. lecture; 6 hrs. lab/computations. Electricity and magnetism, optics, and atomic, nuclear, and solid state physics.

4251 Atomic Physics (3) V Prereq: PHYS 2221 and 4142 and credit or registration in 4132. Modern theory of atomic structure, radiations, and processes.
4261 Introduction to Solid-State Physics (3) V Prereq: PHYS 2209 or 4055 or 4141 or CHEM 4492. Properties of the crystalline state and the free-electron; band theories of metals, insulators, and semi-conductors.

4271 Nuclear Physics (3) V Prereq: PHYS 2209 or 4055 or 4141. Nuclear properties, abundance and stability of nuclei, nuclear instrumentation, particle accelerators and detectors, and nuclear reactions.

4399 Research in Experimental Physics (3) F Prereq: PHYS 4198 or consent of instructor and department chairman. Individual research: project conducted and reported under supervision of individually selected 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 a maximum of 6 sem. hrs. Individual reading and theoretical and/or experimental work on advanced problems in physics.

6111 Mathematical Physics for Teachers (3) Su only-V Prereq: PHYS 2002 or 2102. Cannot be taken for degree credit by students majoring in physics. Mathematical structure of physics.

6121 Classical Physics for Teachers (4) Su only-V Prereq: PHYS 2002 or 2102. For high school and junior college teachers; part of the M.N.S. degree program. Application of conservation principles to development of classical physics.

6141 Quantum Physics of Atoms, Molecules, Solids, and Nuclei for Teachers (4) Su only-V Prereq: PHYS 2002 or 2102. For high school and junior college teachers; part of the M.N.S. degree program. Origins of quantum theory; application to atoms, molecules, solids, and nuclei.

6181-6182 Astronomy and Physics for Secondary School Teachers (4,4) Su only-V 5 hrs. lecture; 1 hr. conference; 3 hrs. lab. Solar system astronomy integrated with elementary physics.

6191 Research Participation for Teachers (3) Su only-V Prereq: PHYS 2002 or 2102.

6198 Laboratory Methods for Teachers (3) Su only-V Prereq: PHYS 2002 or 2102. 1 hr. lecture; 6 hrs. lab. For high school and junior college teachers; part of the M.N.S. degree program. Analysis of laboratory experiments in current high school physics curricula; selected experiments in modern physics.

6991 Seminar in Current Developments in Physics Curriculum Materials (1-3) Su only-V Prereq: PHYS 2002 or 2102. For high school and junior college teachers; part of the M.N.S. degree program. May be repeated for credit a maximum of 6 sem. hrs.

7211-7212 Mathematical Methods of Theoretical Physics (3,3) F,S Prereq: PHYS 4112 or equivalent. Advanced topics in mathematical methods of theoretical physics; mathematical foundations of quantum mechanics.

7221 Classical Mechanics (3) Su 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) V Mechanics of inviscid and Newtonian viscous fluids; elasticity of solids.

7225 Statistical Mechanics (3) Su Principles of classical and quantum statistics, with application to special problems.

7231-7232 Classical Electrodynamics (3,3) F,S 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) V Postulates of special relativity, relativistic mechanics, electrodynamics; radiation, radiation reaction, and general classical theory of fields.

7236 General Relativity (3) V General tensor analysis; postulates of general relativity, field equations, equations of motion, interior and exterior Schwarchild solutions; cosmology.

7241-7242 Quantum Mechanics (3,3) F,S Prereq: PHYS 4142 or equivalent. 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) V Properties of matter at temperatures near absolute zero; methods of producing low temperatures; superfluidity of liquid helium, superconductivity, magnetic effects, and adiabatic demagnetization.

7281 High Energy Particle Physics and Cosmic Rays (3) V Prereq: PHYS 4271. Experiments in high energy particle physics and cosmic rays; theory of electromagnetic interactions, experimental methods, interactions of high energy particles, galactic fields, and solar and galactic cosmic rays.

7282 Cosmic Rays and Meson Physics (3) V

7343 Advanced Quantum Mechanics (3) V Prereq: PHYS 7242. The Lorentz group, relativistic wave equations, introduction to quantum field theory.

7363-7364 Theory of Solids (3,3) V Prereq: PHYS 7242. Application of quantum mechanics to solids; lattice vibrations, crystal field theory, energy bands, transport properties, ferromagnetism, and superconductivity.

7373-7374 Nuclear Physics (3,3) V Prereq: PHYS 4271 and 7241. Applications of quantum mechanics to the two-nucleon system, to a system of many nucleons, and to nuclear reactions, with comparisons between theory and experimental results.

7745 Advanced Quantum Theory of Particles and Fields (3) V May be taken 3 times for credit.

7753 Atomic Scattering (3) V May be taken twice for credit.

7783 Topics in Astrophysics (3) V May be taken twice for credit.

7857 Seminar in Scattering Theory (1) Pass-fail grading. May be repeated for credit.

7867 Seminar in Experimental Solid State Physics (1) Pass-fail grading. May be repeated for credit.


7895 Selected Topics in Advanced Physics (3) V Pass-fail grading. May be repeated for credit.

7896 Current Developments (3) V Pass-fail grading. May be repeated for credit.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)
PLANT PATHOLOGY (PLPA)

3900 Undergraduate Research in Plant Pathology (1-3) V Prereq: PLPA 4000 or equivalent and consent of instructor. May be taken only once for credit. Research experience for students contemplating graduate study in plant pathology.

4000 General Plant Pathology (3) F S Prereq: BOTY 1001 and 1002; or equivalents. 2 hrs. lecture; 3 hrs. lab. Nature and cause of disease in plants; relation of environment and host-parasite interactions to development of disease symptoms caused by plant pathogenic fungi, bacteria, viruses, mycoplasmas, and nematodes; abiotic causes of disease; concepts and methods of disease control using examples of diseases affecting Louisiana crops and ornamentals.

4001 Plant Disease Management and Control (3) F Prereq: PLPA 4000 and either CHEM 2060 or 2261. 2 hrs. lecture; 2 hrs. demonstration/lab. Plant disease management and control using cultural practices, disease resistance, biological control, legislation, therapy, pesticides; identity, properties, chemistry, mode of action, toxicity, and application of fungicides, bactericides, and nematicides; evaluation of chemicals for plant disease control.

4011 Forest Pathology (3) F 2 hrs. lecture; 2 hrs. lab. Major forest-plant diseases and biological deterioration of forest products; nature, etiology, diagnosis, epiphytology, and control measures.

4012 Diseases of Fruit, Ornamental, and Vegetable Crops (3) F-O Prereq: PLPA 4000. 2 hrs. lecture; 3 hrs. lab. Diseases affecting fruit, ornamental, and vegetable crops; their identification, economic importance, and control.

4013 Diseases of Cereal, Forage, and Sugar Crops (3) S-O Prereq: PLPA 4000. 2 hrs. lecture; 3 hrs. lab. Diseases affecting cereal, forage, and sugar crops; their identification, economic importance, and control.

4020 Phytonematology (4) S Prereq: PLPA 4000. 2 hrs. lecture; 4 hrs. lab. Taxonomy, identification, and control of plant parasitic nematodes.

7002 Methods in Plant Pathology (3) S-E Prereq: PLPA 4000 or equivalent. 1 hr. lecture; 4 hrs. lab. Research methods in plant pathology; techniques and instrumentation used in research on diseases caused by fungi, bacteria, and viruses.

7003 Disease Diagnosis and Control Practices (3) Su only Prereq: consent of instructor. 3 hrs. lecture; 6 hrs. lab. Primarily for Ph.D. students majoring or minorning in plant pathology or M.S. students majoring in plant pathology.

Practical experience in the diagnosis and control of plant diseases utilizing specimens submitted to the LSU Plant Disease Clinic.

7020 Ecology and Control of Plant Nematodes (3) F-O Prereq: PLPA 4000 and 4020; or equivalents. 2 hrs. lecture; 2 hrs. lab. Ecology and economic control of plant nematodes attacking crop plants of greatest importance; practical nematode control measures in Louisiana crop, garden, and turf plants.

7032 Agricultural Mycology (4) F-E 3 hrs. lecture; 3 hrs. lab. Fungi important to agriculture, including plant pathogens, mycorrhizae, and endomycorrhizae; emphasis on taxonomy, morphology, agricultural and ecological significance; lab includes collection, isolation, cultivation, and identification of specimens.

7040 Plant Virology (4) F-E Prereq: PLPA 4000 and CPWS 7063; or equivalents. 2 hrs. lecture; 4 hrs. lab. Viruses as causal agents of plant diseases; biological, chemical, and physiological properties of plant viruses; methods of transmission; host-virus and vector-virus relationship.

7051 Advanced Topics in Plant Pathology (1-4) V Prereq: consent of instructor. May be repeated for credit for a maximum of 8 sem. hrs. Topics in plant pathology not covered in other courses.

7052 Seminar (1) S May be taken 3 times for credit for each graduate degree. Topics to be announced prior to registration.

7080 Host-Parasite Interaction and Disease Resistance (3) S-E Prereq: PLPA 4000 and CPWS 7063; or equivalents. 2 hrs. lecture; 2 hrs. lab. Genetics, physiology, and biochemistry of disease development and disease resistance in plants; mechanisms of pathogenicity and infectivity, tumorigenesis, metabolic consequences of infection, nature of disease resistance, and parasitism.

8000 Thesis Research (1-9 per sem.)

8900 Special Research Problems (1-5) Prereq: consent of instructor. May be repeated for credit for a maximum of 9 sem. hrs. Pass-fail grading. Independent research, other than thesis or dissertation, supervised by a member of the faculty.

9000 Dissertation Research (1-9 per sem.)

POLITICAL SCIENCE (POLI)

1001 Fundamental Issues of Politics (3) Central questions at issue in politics; emphasis on their significance for the American scene.

1050 Campaigns and Elections (3) Role and significance of campaigns and elections, using current elections as case studies; campaign strategies, finances, and media techniques; voter participation and characteristics.


2051 American Government (3) Required of all undergraduate majors. An honors course, POLI 2052, is also available. Principles, structures, processes, and functions of American government; emphasis on national government.

2052 HONORS: American Government (3) Same as POLI 2051, with special honors emphasis for qualified students.

2053 Introduction to Comparative Politics (3) 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 equivalent. 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.
2060 Introduction to Political Theory (3) Basic concepts and principles of analysis of normative and empirical political thought.

2070 Public Policy-Making: An Introduction (3) Sequential process by which policy is made from problem identification through policy formulation, adoption, implementation, and evaluation of impact; policy process as applied in such substantive areas as civil rights, welfare policy, urban affairs, taxation, and government spending.

3000 HONORS: Thesis (3) Culmination of political science honors program; details available from department.

3060 Politics of the Future (3) Probable political orders of the future; the effects of resource availability, scientific and technological advancement, and changing human values on mankind's ability to govern; the goals of developed and underdeveloped countries; political freedom versus economic security.

3100 Criminal and Related Law (3) See CJ 3100.

3101 Undergraduate Internship in Political Science (1-6) Open to undergraduate students nominated by the Department of Political Science. May be counted toward the total number of hours required for a major in political science but not toward fulfilling field requirements. A program of study, research, and work in governmental or private agencies concerned with public policy.

3090 Contemporary Political Issues (3) For undergraduate 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 Principles and Practices of Public Administration (3) Prereq: POLI 2051. Structure, organization, and administrative processes of public bureaucracies; political role of agencies as they make and carry out public policies; characteristics of bureaucratic policy-making.

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.

4012 Public Personnel Administration (3) Prereq: POLI 2051. Development, administration, and politics of the civil service in the United States; the merit system, with special attention to collective bargaining in the public sector and constitutional rights of public employees; comparisons with European civil services.

4013 Ethics and Public Policy (3) Ethical questions confronting the formulation and implementation of public policy from the perspectives of the practitioner and the citizen; political corruption and citizen control and compliance; ethical implications of current policy in selected areas, such as civil rights, health care, education, energy, and national defense.

4015 American State Politics and Policy-Making (3) Prereq: POLI 2051 or equivalent. Comparative study of politics and policy-making in the American states; legal, cultural, socioeconomic, political, and institutional factors affecting the formulation, implementation, and evaluation of American state public policies.

4016 Local Government (3) Prereq: POLI 2051 or equivalent. Form, structure, function, and problems of county, municipal, and district governments in the U.S.; emphasis on practical aspects.

4018 Urban Politics and Policy Making (3) Prereq: POLI 2051 or equivalent. Political problems and forces in urban governance: the political environment of American cities, private sources of power, political machines and reform, crime and violence, service delivery, metropolitan fragmentation, and the consequences of growth and decay; development of national and state public policy approaches to complex urban problems.

4019 Intergovernmental Relations and Policy-Making (3) Relationships among national, state, and local governments; topics include grants-in-aid, revenue sharing, governmental lobbying, intergovernmental cooperation and competition; evolution of constitutional federalism; the expanding role of the national government.

4020 American Constitutional Law (3) Prereq: POLI 2051 or equivalent. Law of the Constitution and place of the Supreme Court in the American political system; separation of powers, judicial review, federalism, and federal powers.

4021 The American Constitution and Civil Liberties (3) Prereq: POLI 2051 or equivalent. Political relevance of major federal constitutional limitations; property rights; First Amendment freedoms; rights of criminal defendants and ethnic minorities.

4022 Jurisprudence (3) Prereq: POLI 2051 or equivalent. Legal philosophies of natural law, positivism, idealism, sociological jurisprudence, and legal realism; relationships of law, morals, and political order.

4023 Judicial Politics (3) Prereq: POLI 2051. Political role of U.S. state and federal courts from a comparative perspective; organization, staffing, financing; judicial policymaking; public perception of the judicial process.

4030 Public Opinion and Political Participation (3) Distribution of beliefs and attitudes among the mass public; emphasis on attitude formation and change.

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.

4032 Pressure Groups and Public Policy (3) Interest-group politics; effect of voluntary organizations on political behavior.

4033 Religion in Politics (3) Comparative analysis of religion as a political force; evaluation of religion as a shaper of political culture, a force for stability and change, and a determinant of political behavior and public policy.

4035 The Legislative Process (3) Prereq: POLI 2051 or equivalent. 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 equivalent. 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.

4037 Political Decision-Making (3) Process by which decisions are made at the sub-national, national, and international levels; attention to ways decisions can be studied and evaluated; role of situation and context in decision-making.

4041 International Law (3) Prereq: POLI 2057 or equivalent. 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.


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.

4044 The Contemporary International System (3) Prereq: POLI 2057 or equivalent. 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 deterrence and game theory; decision-making theory; integration theory; conflict and conflict-resolution theory.

4060 British Government and Politics (3) Political institutions, philosophy, and behavior of contemporary Great Britain; emphasis on relationship between British politics and culture.

4061 French Government and Politics (3) Political institutions, philosophy, and behavior of contemporary France; emphasis on relationship between French politics and culture.

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.

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.

4065 Latin American Governments and Politics (3) Governmental and political processes of Latin America; their contributions to modern government.

4066 Inter-American Relations (3) U.S.-Latin American relations; political, economic, and cultural relations among the Latin-American states.

4067 The Politics of Asia (3) Governments and politics of modern Asia, with a focus on China; contemporary nationalism, political development, revolution, and the impact of communism, democracy, and capitalism on Asian states.

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.

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.

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.

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.

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.

4080 American Political Thought (3) Development of the American liberal-democratic tradition, and dissent to that tradition.

4081 History of Political Theory from Plato to Aquinas (3) Prereq: POLI 2051 or equivalent. Ancient and medieval political thought.

4082 History of Political Theory from Machiavelli to Burke (3) Prereq: POLI 2051 or equivalent. Early modern European political thought.

4095 Contemporary Political Theory (3) Political thought of the 19th century; emphasis on liberalism, idealism, socialism, anarchism, and Marxism.

4096 Contemporary Political Theory (3) Political thought of the 20th century; emphasis on liberalism, modern totalitarianism, conservatism, Freudianism, existentialism, and democracy.

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.

7900 Seminar in American Politics (3)

7901 Graduate Internship in Political Science (1-6) Open only to graduate students nominated by the Department of Political Science and accepted by a recognized internship program. May be counted toward total number of hours required in the M.A. program but not toward field requirements. Study, research, and work in governmental or private agencies concerned with public policy.

7910 Seminar in Public Administration (3)

7915 Seminar in State and Local Government (3)

7920 Seminar in Public Law (3)

7931 Seminar in Political Parties (3)

7935 Seminar in Legislative Politics (3)

7940 Seminar in International Politics (3)

7960 Seminar in Comparative Government (3)

7962 Seminar in Research Design and Quantitative Techniques (3)

7965 Seminar in Latin-American Government and Politics (3)
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) Readings in contemporary Luso-Brazilian prose; emphasis on comprehension and oral and written expression in the language.

4001, 4002 Portuguese Language and Literature (3,3) 3 hrs. lecture; 2 hrs. lab. For advanced students who have attained competence in at least one other romance language. Phonetics, morphemics, syntax, and lexicology of Portuguese; readings from Luso-Brazilian writers.

4021 Portuguese Literature of the 19th and 20th Centuries (3) Portuguese literature from the Romantic period to the present.

4022 Brazilian Literature of the 19th and 20th Centuries (3) Brazilian literature from the Romantic period to the present.

4915 Independent Work (1-3) May be repeated for credit for a maximum of 3 sem. hrs. Readings in Portuguese literature directed by a senior faculty member.

7971 to 7974 Seminar (3 each)
7971 Old Portuguese language and literature.
7972 Portuguese literature of the Renaissance.
7973 Brazilian prose fiction.
7974 Brazilian poetry.

POULTRY SCIENCE (PLSC)

1049 Poultry Production (3) F,S 2 hrs. lecture; 2 hrs. lab. Fundamental principles and practices of poultry production under Louisiana conditions.

3001 Apprenticeship in the Poultry Industry (3-6) V Prereq: junior standing with an overall GPA of 2.50 on all work taken at LSU; consent of department head and industry cooperating department. 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.

3900 Poultry Research (1-3) F,S,Su 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.

4004 Market Poultry Products (3) S 2 hrs. lecture; 2 hrs. lab. Preparation of eggs and poultry for market; methods of grading, packing, processing, and storing eggs and poultry.

4010 Applied Poultry Nutrition (3) S 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 feedstuffs.

4040 Quality Assurance in the Food Industry (4) See DARY 4040.

4051 Poultry Biology (3) F 2 hrs. lecture; 2 hrs. lab. Structure, conformation, and selection of the fowl; special consideration to egg formation and oviposition; other physiological factors of economic importance.

4061 Commercial Broiler Production (3) F 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.

4072 Commercial Egg Production (3) S 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 commercial hatcheries, egg production, and egg processing and distributing installations.

7003 Vitamins in Nutrition (2) F 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.

7008 Advanced Poultry Physiology (3) S Prereq: consent of instructor.

7016 Advanced Poultry Nutrition (3) S Prereq: PLSC 4010 or equivalent. Applications of current nutritional concepts to the scientific feeding of poultry.

7090 Advanced Laboratory Techniques in Animal Research (4) Su-E Prereq: BCH 4084 or equivalent. 2 hrs. lecture; 4 hrs. lab. Chemical and physicochemical methods and techniques; modern laboratory materials and equipment used in basic research.

7091 Poultry Seminar (1) F,S May be taken 4 times for credit during period of graduate study. Graduate students in poultry science must participate in a report and discussion group on current literature in their fields.

7094 Seminar in Nutrition (1) S Same as ANSC 7094, DARY 7094, FDSC 7094, HEC 7094. May be taken twice for credit.

7095 Seminar in Applied Genetics (1) F,S Prereq: consent of instructor. May be taken three times for credit. Special topics in advanced breeding and genetics.
PSYCHOLOGY (PSYC)

2000 Introduction to Psychology (3) An honors course, PSYC 2001, is also available. Understanding, prediction, and control of human behavior.

2001 HONORS: Introduction to Psychology (3) Same as PSYC 2000, with special honors emphasis for qualified students.

2004 Psychology of Adjustment (3) Adjustment mechanisms in normal adults; broad areas of abnormal behavior and major personality theories.

2011 General Statistics (3) Prereq: eligibility for MATH 1021. 3 hrs. lecture/recitation. Machine computation and elementary theory relating to basic statistical techniques; normal distribution, descriptive statistics, statistical inference, product moment correlation, simple rank order correlation, t test, and simple analysis of variance.

2017 Elementary Experimental Psychology (3) Prereq: PSYC 2011 or equivalent. 2 hrs. lecture; 2 hrs. lab. Senior college standing required. Classical topics in general experimental psychology; sensation, perception, learning, and motivation.

2040 Social Psychology (3) Prereq: 3 sem. hrs. of psychology or sociology. Cultural forces affecting attitudes, social learning, perception, and communication of individuals and groups.

2060 Educational Psychology (3) Principles of learning, motivation, development, and evaluation as related to the educative process.

2076 Child Psychology (3) Prereq: PSYC 2000 or 2060 or equivalent. Psychological and social development of the child.

2078 Adolescent Psychology (3) Prereq: PSYC 2000 or 2060 or equivalent. Adolescent behavior considered in terms of psychological, social, and physical development.

2676 Field Experience in Developmental Psychology (1) Prereq: concurrent registration in a PSYC 2076 or 2078 section designated as a "practicum section." 2 hrs. per week. Supervised practicum experience in child or adolescent psychology in an approved community setting synthesized with material covered in the concurrent lecture course.

2999 Undergraduate Practicum in Psychology (1-3) Prereq: PSYC 2000 or 2060, and consent of instructor. May be repeated for credit for a 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 equivalent. 2 hrs. lecture; 2 hrs. lab. Supervised research in general experimental psychology; selection, design, execution, analysis, and reporting of the psychological experiment.

3020 Psychological Tests and Measurements (3) Prereq: a first course in statistics. Test construction, standardization, validation; intelligence, clerical, mechanical, spatial aptitude tests; interest and personality tests; test batteries.

3033 Evolutionary Psychology (3) Prereq: ANTH 1001 or PSYC 2000 or SOCL 2001; and one year of a biological science. Evolutionary, ecological, and genetical factors in the explanation of human behavior.

3050 Introduction to Personnel and Industrial Psychology (3) Organizational psychology, leadership, job satisfaction, motivation; human relations psychology; human engineering psychology; personnel psychology; industrial, military, and governmental selection, testing, and interviewing; consumer psychology.

3081 Personality (3) Prereq: PSYC 2000 or 2060 or equivalent. Determinants and dynamics of personality; theory and research.

3082 Introduction to Abnormal Psychology (3) Prereq: PSYC 2000 or 2060 or equivalent. Abnormal personality and behavior disorders.


3140 Advanced Social Psychology (3) Prereq: PSYC 2040 or equivalent. Current theories of socialization examined in light of existing methodologies and interdisciplinary influences.

3201 Psychological Theories of Religion (3) See REL 3201.

4008 History of Modern Psychology (3) Prereq: 9 hrs. of psychology. Historical survey of psychology, with reference to schools of psychology.

4017 Intermediate Research Methods (3) See SOCL 4211.

4031 Sensory and Perceptual Processes (3) Prereq: PSYC 2000 and 2017; or equivalents. Theories, data, and procedures in sensation and perception.

4032 Psychology of Learning (3) Behavior from the standpoint of learning; recent experimental literature in the learning area; major theories of learning.

4033 Psychology of Memory and Forgetting (3) Major theoretical concepts; review of experimental literature in the field of memory and forgetting.

4034 Physiological Psychology (3) Prereq: PSYC 2011 and either PSYC 2000 or 2060; or equivalents. Functioning of the nervous system with respect to sensation, perception, learning, and motivation.

4036 Comparative Psychology (3) Behavioral development across and within species; contributions, techniques, and objectives of behavioral scientists.

4038 Emotion and Motivation (3) Prereq: PSYC 2000 or equivalent. Experimental procedures, data, and theories in emotion and motivation, with emphasis on physiological relationships.

4070 Developmental Psychology (3) Theories of development, contemporary issues, and research findings at successive ages of human development; psychological changes throughout the life span.
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 semesters of 3 hrs. each. Design and conduct of psychological consultation in community development.

7688, 7689 Practicum in Psychodiagnosics 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; 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.

7948, 7949 Current Problems in Social Psychology (3,3) Prereq: consent of instructor. Each course may be taken twice for credit. Research and methodological issues; topics vary.

7958, 7959 Current Problems in Industrial Psychology (3,3) Prereq: consent of instructor. Each course may be taken twice for credit. Research and methodological issues; topics vary.

7978, 7979 Current Problems in Developmental Psychology (3,3) Prereq: consent of instructor. Each course may be taken twice for credit. Research and methodological issues; topics vary.
7988, 7989 Current Problems in Clinical Psychology (3,3) Prereq: consent of instructor. Each course may be taken twice for credit. Research and methodological issues; topics vary.

7990 Teaching of Psychology (3) Required of graduate teaching assistants. Seminar and supervised teaching experience; philosophy, theory, and practice in higher education with application to undergraduate instruction in psychology.

7999 Professional Considerations in Psychology (3) Required of all doctoral candidates. Professional ethics, practice, and responsibility.

8000 Thesis Research (1-9 per sem.)

QUANTITATIVE BUSINESS ANALYSIS (QBA)

2000 Statistical Methods and Models—II (3) Prereq: MATH 1431, working knowledge of computer programming, and concurrent enrollment in MATH 1435. Statistical description and inference; data distributions, descriptive measures, index numbers, time series analysis; review and extension of probability theory; probability distributions; standard distributions, including normal and binomial; sampling distributions.

2001 Introduction to Management Science (3) Prereq: MATH 1435 and QBA 2000. Methods of operations research; decision theory, elementary classical optimization techniques, linear programming, critical path models, and other relevant topics.

3000 Statistical Methods and Models—II (3) Prereq: MATH 1435 and QBA 2000. Continuation of QBA 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.

3115 Operations and Information Systems (3) Prereq: ACCT 2001 and QBA 2001. Also offered as MGT 3115. 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.

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 hypothesis about means, proportions, and variances; chi-square and F tests; emphasis on theory rather than application.

4010 Basic Forecasting Models (3) Prereq: MATH 1435 and QBA 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 1435 and QBA 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: QBA 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 1435 and QBA 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—II (3) Prereq: QBA 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: QBA 4020. Continuation of QBA 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: QBA 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.

4168 Operations Management (3) Prereq: QBA 3115. Also offered as MGT 4168. Specific problems in operations management, e.g., scheduling, inventory control, and quality control; includes cases and computer models.

5000 Applications in Quantitative Methods (1) Prereq: concurrent enrollment in QBA 5014. 1 hr. lecture; 1 hr. lab. Primarily for students in the M.B.A. and M.P.A. programs. Applications of quantitative techniques and the digital computer to complex problems in the business and public sectors.

5014 Managerial Statistics (3) Prereq: QBA 3002 or equivalent; and knowledge of a programming language. Open only to students in the M.B.A. program. Statistical description and inference; data distributions, descriptive measures, index numbers, time series analysis; review and extension of probability theory; probability distributions; standard distributions, including normal, binomial, poisson, and hypergeometric; sampling distributions; estimation of means, proportions, and totals; applications in management.

7000 Statistical Theory (3) Prereq: QBA 4000 or equivalent; and consent of instructor. Continuation of QBA 4000; theoretical basis for topics in statistical inference including tests of hypotheses, experimental design, regression analysis, general linear models, nonparametric statistics, sequential tests of hypotheses, and complex sample designs.

7009 Simulation of Stochastic Processes (3) Prereq: fundamental knowledge of computer programming, statistics, and operations research; and consent of instructor. Simulation models, methodologies, and languages; development of complex models; validation of results; completion of several large-scale projects involving extensive use of digital computer required.


7021 Sample Survey Methods and Theory (3) Prereq: QBA 4000 and 4011; or equivalents. 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: QBA 4000 and 7024; or equivalents. Multivariate methods, including principal components, canonical correlation, factor analysis, discriminate 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: QBA 7024 or equivalent. Continuation of QBA 7024; advanced regression analysis; experimental design and analysis of variance; nonparametric methods; multivariate techniques; extensive use of statistical computer programs.

7027 Advanced Forecasting Models (3) Prereq: QBA 4010 or 7024 or equivalent background in regression analysis. Advanced topics in forecasting, time series analysis 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.

7101 Introduction to Research Methods (3) Prereq: proficiency in basic statistical methods, calculus, linear algebra, and computer programming. Nature of operations research; includes general decision models, classical optimization, linear programming, duality and sensitivity analysis, parametric programming, multiple objective programming, network analysis, and simulation; use of computer to solve large-scale problems; primary emphasis on applications of most widely used techniques.

7102 Survey of Operations Research—Deterministic Models (3) Prereq: QBA 7101. Topics include integer and mixed-integer programming, extensions of classical optimization, quadratic programming, separable programming, and dynamic programming; emphasis on applications of more advanced mathematical programming; techniques, with some theory considered.

7103 Survey of Operations Research—Stochastic Methods (3) Prereq: QBA 7101. Topics include extensions of decision theory, game theory, dynamic programming, Markovian decision processes, reliability models, and queuing models; emphasis on applications of probabilistic methods in operations research, with some theory considered.


7268 Operations Management (3) Prereq: QBA 5014 and 7101. Also offered as MGT 7268. Analysis of major problems and decision processes of operations management: operations planning, production, and inventory control, and quality control; scheduling, production and inventory control, and planning and control of aggregate output.

7275 Advanced Operations Management (3) Prereq: QBA 7268. Also offered as MGT 7275. Operations management topic(s) such as material requirements planning, inventory control, scheduling, capacity control, job design, industrial design, network analysis; emphasis on application of techniques.

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.)

8990 Predissertation Research (1-9) May be repeated for credit.

9000 Dissertation Research (1-9 per sem.)
RELLIGIOUS STUDIES (REL)

1003 Introduction to Religion (3) Important and typical ways of being religious; exploring such questions as the nature of religious experience, the nature and function of religious scripture, stories, beliefs, and rituals, and the role of religions in social and individual life.

1004 Old Testament (3) A scholarly study of the Hebrew Bible (Old Testament) against the background of the history and religious life of ancient Israel.


2001 Faith and Doubt (3) Intellectual sources of religious doubt; alternatives to traditional Judeo-Christian religion, including existentialism, Freudianism, and psychological behaviorism.

2005 Jesus in History and Tradition (3) Search for the historical Jesus; includes Biblical and non-Biblical sources and influential theories about Jesus.

2027 Eastern Religions (3) Doctrines, practices, and philosophical import of the major religions of Southern and Eastern Asia.

2028 Philosophy of Religion (3) Same as PHIL 2028. Essence and meaning of religion as a pervasive phenomenon in human societies; faith and reason, nature of divinity, arguments for and against God's existence, religious knowledge and experience, morality and cult, the problem of evil.

2029 Judaism, Christianity, and Islam (3) Doctrines and practices of the three major religions of the Western world; attention to the teachings of the Old Testament, New Testament, and Koran.

RUSSIAN (RUSS)

1001 Elementary Russian (5) Pronunciation, oral-aural practice, elementary grammar, translation.

2051 Intermediate Russian (5) Pronunciation, oral-aural practice, completion of elementary grammar, translation.

2053 Intermediate Russian (3) Continued oral-aural practice; readings and translation of Russian texts; vocabulary building.

2055 Readings in Russian Literature (3) Russian literature and culture; readings in contemporary Russian materials.

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) Credit not applicable toward a major in Russian. 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.

2101 Judaism (3) Jewish history, faith, and worship, including Judaism's past and present relations with Christianity and Islam.

3004 Archaeology and the Bible (3) Prereq: PHIL 1004 or 1005 or equivalent. Also offered as ANTH 3004. Major figures and discoveries influencing the historical study of the Bible; emphasis on results of excavations and discovery of written documents and inscriptions.

3005 Paul and Early Christianity (3) Paul's writings in their historical context; assessment of his place in the development of the church; examination of significant themes in his theology.

3011 History of Modern Christian Thought (3) Major figures and periods in the history of Christian thought from the Reformation to the 20th century; includes the conflict of religion and science, 18th-century rationalism and pietism, and 19th-century roots of modern theology.

3104 Ancient Hebrew Prophets (3) Prophetic movement in ancient Israel; different modern interpretations of prophecy.

3201 Psychological Theories of Religion (3) Also offered as PSYC 3201. Use of various psychological theories to explain religious belief and practice, conversion experiences, ritual acts, and altered states of mind.

4191 Religions of China and Japan (3) See HIST 4191.

4944 Philosophical Theology (3) Prereq: two courses in philosophy or consent of instructor. Same as PHIL 4944. Major works in philosophical theology by such authors as Hartshorne, Farrer, Tillich.

4301 The Fairy Tale (3) Taught in English; knowledge of Russian not required. Structure and substance of the traditional fairy tale, using examples from German and Russian sources.

4402 Russian Language: Phonetics and Phonemics (3) Phonological 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.

4303 Russian Literature: Novel (3) The Russian novel from its beginning to the end of the 19th century.

4304 Russian Literature: Novel (3) Special works of Turgenev, Dostoevski, Tolstoy.

4306 Russian Literature: Drama (3) History of Russian drama; representative plays of Griboyedov, Gogol, Ostrovsky, Chekhov.

4333 Russian Literature: Poetry (3) Russian poetry of the 19th and early 20th centuries.

4361 Soviet Literature (3) Russian literature from 1917 to the present.

4408 Russian Literature in Translation: 19th Century (3) Credit not applicable toward a major in Russian; knowledge of Russian not required. Masterpieces of 19th-century Russian literature, including the works of Turgenev, Dostoevski, and Chekhov.
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4082 Russian Literature in Translation: 20th Century (3) Credit not applicable toward a major in Russian; knowledge of Russian not required. Masterpieces of 20th-century Russian literature, pre- and post-Revolution, including the works of four Nobel Prize winners of literature: Bunin, Pasternak, Sholokhov, and Solzhenitsyn.

4915 Independent Work (1-3) May be repeated for credit for a maximum of 3 sem. hrs. Readings in Russian literature directed by a senior faculty member.

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.)

SOCIAL WELFARE (SW)

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.

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 equivalent. 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.

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.

4004 International Perspectives on Social Welfare (2) Comparative and international perspectives of various social welfare systems.

SOCIOLOGY (SOCL)

In this department, the second digit of the course number denotes the subject area of the course as follows: 0—general courses; 1—theory; 2—methods and statistics; 3—social organization; 4—social institutions; 5—social issues; 6—social interaction; 7—population and ecology; 8—not used; and 9—reading and research (except for thesis research and dissertation research which are numbered 8000 and 9000, respectively).

1005 Social Life in the United States (3) Open only to international students. An orientation course on people, culture, social institutions, and processes.

2001 Introductory Sociology (3) Major subject areas and principles of sociology.

2091 Selected Topics in Sociology (3) May be taken twice for credit when topics vary.

2201 Introduction to Statistical Analysis (4) 3 hrs. lecture; 2 hrs. lab. Completion of MATH 1015 or 1021 is strongly recommended before taking this course. Also offered as EXST 2201. Variables used in sociological research, level of measurement, distributions, measures of association and correlation, simple linear regression, probability, sampling

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.

2411 Industrial Sociology (3) Social organization in industry; relation of industry to community and society.
2501 Current Social Problems (3) Sociological analysis of major social problems in contemporary society; focus on both the institutional and personal causes and consequences.

2505 Marriage and Family Relationships (3) May not count toward satisfying the 31-hour requirement for concentration in sociology. Current issues and trends in marriage and family relationships.

2721 The City (3) Comparative study of urban communities and their problems.

2741 Sociological Perspectives on the South (3) Prereq: SOCL 2001 or equivalent. Society and culture in the South; the region's uniqueness, diversity, and ordeal of change.

3101 Sociological Theory (3) Prereq: SOCL 2001 or equivalent. Dominant theorists and schools of thought in sociology.

3501 Sociology of Deviance (3) Prereq: SOCL 2001 or equivalent. Sociological theories of deviant behavior; supporting research on mental illness, crime, sexual deviance, drug abuse, and suicide.

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 PSYC 2000 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 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.

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 structure in society; determinants of social class, mobility, and changes in class position of both individuals and groups; attitudinal and behavioral consequences of class position.

4341 Social Change (3) Prereq: SOCL 2001 and HIST 1003 or 2021; or equivalents. Major theoretical and empirical problems in the study of social change.

4351 Rural Social Organizations (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, 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.

4471 Sociology of Law (3) Prereq: SOCL 2001 or equivalent. Examination of law and social change, the evolution of legal institutions, group conflict and law, and the influence of legal controls and sanctions on human behavior.

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 equivalent. Current theoretical perspectives in sociology ranging from structural-functionalist to ethnomethodology.

7211 Seminar: Methods of Social Investigation (3) Prereq: EXST 7003 or equivalent. 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 equivalent. Assumptions central to scientific study of society; sociology and language, meaning and objectivity in sociology, technical and philosophic orientations in sociology.

7231 Seminar: Measurement Issues in Sociology (1) Prereq: SOCL 7211 or equivalent. Measurement issues in sociological research; levels, basic approaches, sources of invalidity and error.

7241 Seminar: Topics in Research Design (1) Prereq: SOCL 7211 or equivalent. May be repeated for 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 equivalent. 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 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 organization; current topics include complex organizations, formal organizations, the community, social stratification, and Latin American societies.

7491 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 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 (SPAN)

1001 Elementary Spanish (5) For students with no preparation in Spanish. Oral approach, with a minimum of formal grammar, emphasis on conversation, supplemented by oral-aural drill in the language laboratory.

1020 Spanish 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 a pass-fail basis only. Does not count toward satisfying foreign language requirement for undergraduates, although hours may count toward baccalaureate. Credit will not be given for both this course and introductory Spanish courses.

2051 Intermediate Spanish (5) An honors course, SPAN 2052, is also available. Oral approach to the language, supplemented by aural-oral drill in the language laboratory; reading material of moderate difficulty.

2052 HONORS: Intermediate Spanish (5) Same as SPAN 2051, with special honors emphasis for qualified students.

2053 Intermediate Spanish (3) An honors course, SPAN 2054, is also available. Continued reading and oral work, vocabulary building, review of the basic principles of grammar.

2054 HONORS: Intermediate Spanish (3) Same as SPAN 2053, with special honors emphasis for qualified students.

2055 Readings in Spanish Literature (3) An honors course, SPAN 2056, is also available. Readings in contemporary Spanish prose; emphasis on comprehension and oral and written expression in the language.

2056 HONORS: Readings in Spanish Literature (3) Same as SPAN 2055, with special honors emphasis for qualified students.

2058 Spanish Conversation for Non-native Speakers (3) Prereq: SPAN 2053. Does not count toward satisfying the foreign language requirement. Language practice to develop fluency and conversational skills.

2061 Advanced Spanish Grammar (3) F Intensive study of Spanish grammar and syntax.

2062 Advanced Spanish Composition and Syntax (3) S Prereq: SPAN 2061. Drill in original descriptive and narrative composition; emphasis on style, syntax, idioms, and verb forms.

3041 Spanish-American Literature (3) Spanish-American literature from the early centuries through the Romantic period.

3042 Spanish-American Literature (3) Prereq: SPAN 3041 or equivalent. Spanish American literature from the 19th century to the present.

3071 Survey of Spanish Literature (3) F Spanish literature from its beginning to the 18th century.

3072 Survey of Spanish Literature (3) S The main authors and literary movements from the 18th century to the present.

3073 Advanced Readings on Spanish Civilization (3) F Ethnological, geographical, historical, political, economic, and sociological factors necessary for understanding Spanish literature.

3074 Advanced Readings on Hispanic-American Civilization (3) S Parallels SPAN 3073, but focuses on the Hispanic-American countries.

4005 Structure of the Spanish Language (3) Spanish morphology and syntax; structuralist, generative-transformational, and sociolinguistic analyses and applications.

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.

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.

4032 Spanish Drama of the 19th Century (3)

4041 Spanish-American Literature (3) Spanish-American literature from the early chronicles through the Romantic period.

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—picar esque, pastoral, and historical, culminating in Cervantes; consideration given mystic prose and the early historians of the Indies.

4052 Dramatic Literature of the Golden Age (3) The Spanish comedias: readings from the works of Lope de Vega, Calderón de la Barca, Rojas Zorrilla, Tirso de Molina, and Ruiz de Alarcón.

4061 The Generation of 1898 (3) Principal writers of the Generación del 98 in the fields of poetry, the novel, the stage, and criticism.

4062 Spanish Literature of the 20th Century (3) Poetry, drama, and prose fiction in Spain from the Generation of 1898 to the contemporary period.

4081 Modern Spanish Prose Fiction in Translation (3) Credit not applicable toward a major in Spanish. Taught in English; knowledge of Spanish not required. Selected outstanding novels and short stories of modern Spanish literature from the 16th- and 17th-century 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, Laforet, and Gironella.

4082 Modern Spanish-American Prose Fiction in Translation (3) Credit not applicable toward a major in Spanish. Taught in English; knowledge of Spanish not required. Selected outstanding Spanish-American prose works by García Márquez, Cortázar, Fuentes, Carpenter, and Broges.

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.


4915 Independent Work (1-3) May be repeated for credit for a maximum of 3 sem. hrs. Readings in Spanish literature directed by a senior faculty member.

7001 Old Spanish (3) Phonological development of the Spanish language from Latin; lectures and selected readings.

7002 Old Spanish Literature (3) Early literary works: El poema del Cid, El libro de Apolonio, Berceo.

7003 Readings in Old Spanish Literature (3) Spanish literature of the 13th, 14th, and 15th centuries.
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.

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.
7942 Romanticism and realism-naturalism.
7943 Modernism.
7944 Poetry of the 20th century.
7945 20th-century prose.

7952 to 7955 Seminar in Golden Age Drama (3 each)
7952 Spanish dramatists before Lope de Vega.
7953 Lope de Vega.
7954 Tirso de Molina, Alarcón, and other contemporaries of Lope.

SPEECH (SPCH)

1020 Introduction to Theatre (3) An honors course, SPCH 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 SPCH 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 SPCH 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 international student adviser. Weekly individual work in the Speech Laboratory. Theoretical and practical 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 SPCH 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) An honors course, SPCH 1062, is also available. Fundamentals of speech: selection of subjects; gathering materials; structure, style, and vocal and physical attributes of delivery; practice in communicative speaking.

1062 HONORS: Speech Fundamentals (3) Same as SPCH 1061, with special honors emphasis for qualified students (students with ACT scores which qualify for ENGL 1003 and students with 3.0 cumulative gpa).

2010 Interpersonal Communication (3) Introduction to theories and research in human communication; special emphasis on one-to-one interactions.

2022 Introduction to Play Production (3) Prereq: concurrent registration in SPCH 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.

2034 Introduction to Stagecraft and Stage Lighting (3) Prereq: SPCH 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.

2090 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)
analysis, briefing, evidence, reasoning, and refutation; debating on vital questions.

2064 Discussion and Conference Speaking (3) Aspects and problems of group leadership; 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.

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.

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.

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.

3025 Advanced Acting (3) Prereq: SPCH 2025. Emphasis on characterization and scene work.

3040 Advanced Interpretation of Literature (3) Prereq: SPCH 2040. Analysis and performance of selected short stories and poems.

3900 Selected Topics in Speech (3) Prereq: consent of instructor. May be taken twice for credit. Topics will vary; consult Schedule of Classes for current offering.

4012 Problems in the Use of Language: Symbolic and Communicative Behavior (3) Misunderstandings in interpersonal relationships, with emphasis on more effective communication.

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.

4079 Introduction to Communicative Disorders (3) Prereq: SPCH 2081 or equivalent. Basic theoretical, evaluative, and remedial procedures in communicative disorders for those concentrating in the area.

4080 Disorders of Articulation (3) Prereq: SPCH 4079, 4150, 4152, and 4153; or equivalents. 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.

4100 Political Communication (3) Analysis of factors and strategies in contemporary political communication in the U.S.; emphasis on electronic communication, candidates and images, campaign management, speechmaking, and advertising; application of theory through study of recent and current elections.

4101 Communication in Organizations (3) Not a performance course. Speech communication theory and practice in organizations; uses research in speech to identify and solve communication problems; includes analyses of organizational communication.

4113 Advanced Discussion (3) For teachers and directors of discussion, people in industry, and other advanced students.

4114 Contemporary Theories of Communication (3) Current methods and theories of human communication; 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.

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.

4122 History of Costume (3) Survey of historical style of costumes and adaptation of these to stage use; basic principles of the cut and construction of stage costumes.

4123 Costume Design (3) Principles of design as related to stage costumes; special emphasis on design research, creative interpretation, adapting costumes to theatrical styles of production, and deriving inspiration from designs of the past.

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.

4125 Problems in Dramatic Production (3) Prereq: SPCH 1020, 2022, and 2025; or equivalents. Principles of play selection and directing; casting, rehearsal; directing plays in the Workshop Theatre in connection with productions of the Louisiana Players Guild.

4126 History of the Theatre (3) Prereq: SPCH 1020, 2022, 4120, 4121, or 4125. Historical development of the theatre from the Greeks to 1650.

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.

4128 History of the Theatre—I (3) Historical development of the theatre from 1650 to 1870.

4129 History of the Theatre—II (3) Historical development of the theatre from 1870 to the present.

4130 The Development of Dramatic Art (3) Dramatic forms and their production styles from the time of Aeschylus to the advent of Ibsen.

4131 Seminar: Contemporary Theatre and Drama (3) Su May be taken twice for credit. Selected topics in the contemporary theatre.

4140 Interpretation of Literature (3) Poetic theory applied to oral presentation of poetry.

4141 Interpretation of Literature (3) Oral presentation of narrative and dramatic forms; techniques of adaptation and oral book reviewing.
4142 Oral Interpretation of Special Literary Texts (3) May be taken twice for credit when topics vary. Oral presentation of specific literary styles or periods; sample topics include Southern fiction, literature of protest, experimental fiction, and Shelley and Keats.

4145 Readers' Theatre (3) Prereq: SPCH 4140 and 4141; or equivalent. Exploration of literature through group performance; theory and techniques for performing prose fiction, nonfiction, poetry, drama; script creation; staging techniques; performance design; directing the production.

4150 Phonology (3) Prereq: SPCH 1050 or 1055 or equivalent. Articulatory phonetics; close transcription of English utterances; principles of phonemics; generative phonology.

4152 Physiological Basis of Speech and Hearing (3) Structure, action, and control features of the speech and hearing mechanism.

4153 Acoustics of Speech and Hearing (3) Production, transmission, and perception of acoustics signals in speech communication; acoustic phonetics and psycho-acoustics.

4160 Persuasive Communication (3) Prereq: SPCH 1061, 2060, 2063, or equivalent. Persuasive speaking; nature of persuasion in its many forms as it occurs in our society.

4164 Advanced Argumentation (3) Prereq: SPCH 2063 or 4160 or equivalent. 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.

4165 History and Criticism of American Public Address (3) Prereq: SPCH 2060 or 2063 or 4160. American public address from colonial times to the present; speeches of outstanding American statesmen, lawyers, and clergymen, considering especially sources of their effectiveness.

4166 History and Criticism of British Public Address (3) Prereq: SPCH 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.

4172 History of Film (3) Prereq: SPCH 2072 or equivalent. Development of film as a mode of communication and an artistic form from 1895 to the present; classic films screened and studied.

4181* Introduction to Audiology (3) Prereq: SPCH 4079, 4150, 4152, and 4153; or equivalents. 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: SPCH 4181 or equivalent. 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: SPCH 4080 or equivalent. Language acquisition and behavior, language and cognitive development, verbal learning, and structural properties of speech; theories of language development in the "normal" child including sensory, motor, mental, social, emotional, speech, and language skills; deaf, mentally retarded, and emotionally disturbed child also considered.

4185* Stuttering and Allied Disorders (3) Prereq: SPCH 4080 or equivalent. Stuttering and allied disorders; emphasis on symptomatology, testing, rehabilitation, and prevention.

4187* Hearing Testing (3) Prereq: SPCH 4183 or equivalent. Special problems in hearing testing.

4188* Language Disorders of Children (3) Prereq: SPCH 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, 4684, 4685 Clinical Practice—Therapeutic Techniques (1-4 each) Prereq: credit or enrollment in the course dealing with the specific disorder in which practicum is to be taken. May be repeated for a maximum of 8 sem. hrs. credit each. On- and off-campus practicum in specific disorders (articulation, language, fluency, voice, hearing, etc.)

4694 Clinical Practicum in a Medical Environment (1-4) Prereq: consent of instructor. Speech and/or audiology practicum in a hospital or medical practitioner's office.

5060 Business Communication—II (1) See BCOS 5073.

6051 Spoken English Workshop (3) Prereq: SPCH 1051 or equivalent. For non-native speakers of English; open only to participants in Summer Institutes in English. Speaking, reading, and dramatic exercises to develop fluency and communicative competence; some attention to the phonological system of English, including suprasegments.

6155 Current Trends in English as a Second Language (3) Open only to participants in Summer Institutes in English. Contemporary theory and research in second language acquisition and teaching; emphasis on English as a second language in native and foreign environments; attention to issues in teaching strategies, bilingual education, testing, materials preparation, culture, and English as a second dialect.

7180** Management of Communicative Disorders in the Young Multiply Impaired Child (3) Prereq: SPCH 4188 or equivalent. Human development from birth to five years of age; the "high risk" population; developmental disabilities; prevention, diagnosis, and intervention; parent-infant stimulation; community information and education.

7683, 7684, 7685 Graduate Clinical Practice—Therapeutic Techniques (1-4 each) Prereq: credit or enrollment in the course dealing with the specific disorder in which practicum is to be taken. May be repeated for credit in order to obtain the clock hours necessary for certification by the American Speech-Language-Hearing Association. However, only 6 sem. hrs. of academic credit may be counted toward the degree, although all practicum hours count for professional certification. On- and off-campus graduate practicum in specific areas (articulation, language, fluency, voice, aural rehabilitation, early intervention, diagnostic audiology, oral-facial anomalies, neurological disorders, etc.)

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)

*For clinic practicum, take SPCH 4683, 4684, or 4685.

**For clinic practicum, take SPCH 7683, 7684, or 7685.
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: SPCH 4114 or equivalent. May be taken twice for credit when topics vary. In-depth criticism, interpretation, and validation of specific theories in speech communication; topics vary; emphasis on different theoretical perspective.

7915 Seminar: Research in Communication Theory (3) Prereq: SPCH 4114 or equivalent. 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.


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)

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.

7950 Special Topics in Linguistics (3) May be taken twice for credit for the master's degree and four times for the doctorate when topics vary. Topics to be announced.

7952 Seminar in Linguistic Theory (3) Problems in analysis of language; emphasis on phonology and semantics.

7953 Instrumental Research in Speech Science (3) Prereq: SPCH 4153 or equivalent.

7954 Experimental Phonetics (3) Prereq: SPCH 7953 or equivalent. Motor and articulatory phonetics, including palatography, acoustic phonetics, and certain aspects of signal detection and perception.

*For clinic practicum, take SPCH 7683, 7684, or 7685.

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 international students.

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)

7962 Seminar: Rhetorical Criticism (3) Prereq: consent of instructor. Types of speech criticism, criteria, and measures of effectiveness of public address.

7963 Seminar on Southern Oratory (3) Prereq: SPCH 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.

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.

7980* Speech and Language Disorders of Neurological Origin (3) Prereq: SPCH 4080 or equivalent. Fundamentals of neurology; major neuropathologies of speech and language, with emphasis on their symptoms, associated problems, and management.

7981* Cerebral Palsy (3) Prereq: SPCH 7980 or equivalent. 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: SPCH 7881 and consent of instructor. Continuation of SPCH 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: SPCH 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: SPCH 4187 or equivalent. Special audiological testing procedures, including Central Lesion Test, Impedance Audiometry, Evoked Response Audiometry, Identification Audiometry, Electrodermal Response, and tests of cochlear and retrocochlear pathology.

7992 Rehabilitation of the Adult Aphasic (3) Prereq: SPCH 7980 or equivalent. Neurological bases of aphasia and related disorders; appropriate therapeutic methodologies.

7993 Hearing Science (3) Prereq: SPCH 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: SPCH 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: SPCH 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 audiological data to expectations for habilitation.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)

*For clinic practicum, take SPCH 7683, 7684, or 7685.

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 "Mass Media Entertainment and Modern Literary Forms" (1977), "The Holocaust" (1980), and "Developing Student Leadership" (1982). Each course carries undergraduate credit of one to three semester hours; acceptance of such credit toward fulfillment of degree requirements is decided by the faculty of each college or school within the University.

Specific "University" courses are not offered more than twice and may be taken on a pass-fail basis, subject to the usual guidelines for pass-fail work. The topic, credit, and class time of each University course are announced by the Office of Academic Affairs prior to the beginning of the semester in which the course is to be taught.

VETERINARY ANATOMY (VAN)

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) splanchnology, 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.

7106 Techniques in Electron Microscopy — Veterinary Medical Applications (3) Prereq: credit or registration in ZOOL 7701 or consent of instructor. 1 hr. lecture; 6 hrs. lab. Preparation of companion, food, laboratory, and exotic animal tissues including biopsies for transmission and scanning electron microscopy; operation of S-150 SEM, EM-10, and EM-109 TEM'S and ancillary equipment.
VETERINARY MEDICINE (VMED)

Courses in the professional curriculum are designated as "Veterinary Medicine" (VMED) courses rather than departmental courses because of the integration of the disciplines. All of these courses are at the 5000 level. They are described individually in the School of Veterinary Medicine Bulletin. Prerequisite for enrollment in these courses is formal admission to the professional curriculum in the School of Veterinary Medicine. All courses must be taken in the proper sequence, as each is a prerequisite for the succeeding course.

The following courses at the 7000 level and above are utilized by all options in the veterinary medical sciences graduate program.

7001 Seminar: Veterinary Medical Sciences (1) May be taken 8 times for credit. Reports and discussions on topics of current interest in various disciplines of veterinary medicine.

7002 Veterinary Medical Research Techniques (1-4) May be repeated for credit for a maximum of 6 sem. hrs. Specialized research techniques related to a specific discipline of veterinary medicine.

7003 Special Topics in Veterinary Medicine (1-4) Prereq: consent of instructor. May be repeated for credit for a maximum of 8 sem. hrs. Specialized coverage of a variety of topics of current interest in veterinary medicine.

8000 Thesis Research (1-9 per sem.)

8900 Predissertation Research (1-9) May be repeated for credit for a maximum of 9 sem. hrs.

9000 Dissertation Research (1-9 per sem.)

VETERINARY MICROBIOLOGY AND PARASITOLOGY (VMP)

7410 Veterinary Virology (4) V 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) V 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) V 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) V 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) V 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) V 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) V 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: consent of instructor. Basic microbiology and/or parasitology strongly recommended. 2 hrs. lecture; 2 hrs. lab. Same as WILD 7424. Identification, pathogenesis, and control of viral, bacterial, and parasitic agents causing diseases in marine and aquatic animals; emphasis on those affecting aquacultural species.

7426 Antimicrobial and Chemotherapeutic Agents (3) V Prereq: introductory microbiology and biochemistry. 2 hrs. lecture; 2 hrs. lab. Mechanism of action; structure/function of antimicrobial and chemotherapeutic agents.

7428 Veterinary Immunochemistry (4) V Prereq: introductory course in immunology or consent of instructor. 2 hrs. lecture; 6 hrs. lab. Immunological properties of products of immunologically competent cells, e.g., immunoglobulins, lymphokines, components of the complement system, coagulatin, etc.

VETERINARY PATHOLOGY (VP)

The D.V.M. degree is a prerequisite for the following courses.

7501 Cellular Pathology (4) V 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) V 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) V 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) F.S.Su Prereq: consent of instructor. Necropsy of animals submitted to the department; case work-up includes light microscopy of animal tissues, biochemical and hematological evaluations necessary for an accurate diagnosis, and completion of gross and microscopic descriptions.
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) V Prereq: consent of instructor. 1 hr. lecture; 2 hrs. lab. Histopathologic aspects of metabolic, toxic, and infectious diseases of avian species.

**VETERINARY PHYSIOLOGY, PHARMACOLOGY, AND TOXICOLOGY (VPT)**

2001 Introduction to Pharmacology (3) S 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 based on their mechanisms and sites of action in mammalian hosts; classical therapeutic applications.

4001 Fundamentals of Toxicology (3) F Prereq: senior standing with 8 hrs. of chemistry and 8 hrs. of biological sciences. Fundamental principles of toxicology related to mammalian systems; major groups of toxic agents, the pathophysiology they elicit, and the applications of toxicology.

7602 Veterinary Pharmacology and Toxicology—I (3) F Prereq: VPT 7602 and 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) S 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) V Prereq: VPT 7602 and 7603; or equivalents. 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) V Prereq: ZOOL 4160 or equivalent. 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) V 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) V Prereq: ZOOL 4160 or equivalent. 2 hrs. lecture; 3 hrs. lab. Biophysical phenomena of pulmonary functions and structure; gas transport and exchange; neurohumoral, chemical states; special consideration to experimental procedures and techniques.

7608 Environmental Reproductive Physiology in Farm Animals (2) V Prereq: ANSC 4018 or DARY 4044 or equivalent. 2 hrs. lecture/demonstration. Effects of climate, nutrition, social environment, and production demands on reproductive performance; techniques for evaluation of environmental effects through use of a climate chamber.

7609 Biomedical Instrumentation and Physiological Control Systems (3) V Prereq: ZOOL 4160 or equivalent. 2 hrs. lecture; 2 hrs. lab. Quantitation of physiological systems using current engineering techniques for physiological data acquisition and systems analysis; techniques for transducing physiological data with demonstrations.

7610 Advanced Veterinary Physiology of Special Homeostatic Mechanisms (5) F Prereq: consent of instructor. 4 hrs. lecture; 3 hrs. lab. Physiological mechanisms underlying the cardiovascular, pulmonary, renal, and reticuloendothelial systems; emphasis on system control.

7611 Advanced Veterinary Physiology of Digestive, Endocrine, and Reproductive Systems (5) S Prereq: consent of instructor. 4 hrs. lecture; 3 hrs. lab.

7612 Advanced Veterinary Neurophysiology (2) S Prereq: VPT 7610 or equivalent. 1 hr. lecture; 3 hrs. lab. The nervous system; physiological mechanisms of the neuron, muscle, peripheral, autonomic, and central nervous systems; progression from simple to complex systems, with emphasis on integration of various components and systems.

7613 Toxicology and Metabolic Processes (3) V Prereq: BCH 4393 or 4394 or equivalent. Molecular concepts of toxicology; biochemical study of absorption, activation, mode of action, and excretion of toxic compounds.

7614 Central Nervous System Physiology (3) V Prereq: VPT 7612 or equivalent or consent of instructor. Neurotransmitter mechanisms, chemistry, and distribution; synaptic physiology of selected brain regions.

**VETERINARY SCIENCE (VETS)**

3001 Sanitation and First Aid (3) F,S 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) F,S 3 hrs. lab. Dehorning, castration, branding, methods of restraint, and methods for control of parasites.
VOCATIONAL AGRICULTURAL EDUCATION (VAED)

2070 Introduction to Agricultural Education (1) F History, objectives, and organization of vocational agriculture in secondary schools; field visits to local vocational agriculture/agribusiness departments required.

3017 Methods of Teaching Vocational Agriculture/Agribusiness (3) F Fundamental principles underlying vocational instruction and vocational classroom/laboratory management including provisions for multicultural and special needs students; problems of vocational instruction; emphasis on vocational agriculture/agribusiness programs.

3018 The All-Day Class Program (3) S Selection and organization of vocational agriculture/agribusiness teaching units; procedures in building the school phase of a total vocational agriculture/agribusiness program; training of contest teams; reporting procedures required by local, state, and federal governmental agencies; requirements of multicultural and other special needs students.

3019 Out-of-School Youth and Adult Classes in Vocational Agriculture (2) S Organization, subject matter, and methods in youth and adult classes in vocational agriculture/agribusiness; considerations necessary for planning these programs for multicultural and other special needs students; field experience with out-of-school youth and/or adult classes required.

3020 Observation and Student Teaching (9) Prereq: senior standing, VAED 3017, 3018, 3095, and at least a 2.50 gpa. Field fee. Each student is required to spend 9 full weeks in the field at an approved department of vocational agriculture in the state. Student teaching centers with multicultural and other special needs students will be used.

3095 Supervised Occupational Experience Programs (4) 2 hrs. lecture; 4 hrs. per week in an approved nonfarm agricultural business and/or high school vocational agriculture department for a minimum of 15 weeks. Planning, implementing, and supervising occupational experience programs.

4016 Organization and Management of Agricultural Mechanics Programs (2) S,Su-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.

7002 Foundation of Vocational Teaching Technique (3) S,Su Principles underlying the vocational teaching/learning process; use of varied and effective vocational teaching methods and strategies; methods and strategies for working with multicultural and other special needs students.

7007 State Organization and Administration of Vocational Agriculture/Agribusiness (3) V Theory and practices of organization, leadership, and administration for effective vocational agriculture leadership.

7008 State Supervision of Vocational Agriculture/Agribusiness (3) V Principles and problems of supervision of vocational teaching from the state level; development of techniques and strategies for the improvement of instruction in vocational agriculture.

7012 Teacher Education in Vocational Agriculture/Agribusiness (3) Su-O Development and functions of the comprehensive vocational agriculture/agribusiness teacher education program; needs of multicultural and other special needs students.

7017-7018 Advanced Agricultural Education (3, 3)

7019 Principles and Practices in Training for Non-farm Agriculture and Agribusiness (3) Su Principles and applied practices of conducting the adult education component of the total vocational agriculture/agribusiness program; special practices used in working with multicultural and other special needs students.

7023 History and Development of Vocational Agriculture/Agribusiness Education (3) S Review of events and organizations which contributed to the development of vocational agriculture; federal and state legislation, state plans, and state board policies.

7024 Philosophy of Vocational Education (3) S Philosophy approaches to the solution of problems in vocational and agricultural education programs; philosophical aspects of providing these programs for multicultural and other special needs students.

7037 Curriculum Construction in Vocational Agriculture/Agribusiness (3) F-E Principles, processes, and applied practices in developing and improving curricula for vocational agriculture/agribusiness programs with consideration for multicultural and other special needs students; field practice in vocational agriculture/agribusiness curriculum development required.

7051 Evaluation and Analysis of the Total Agriculture/Agribusiness Program (3) F-E Principles and procedures of evaluation and analysis used in developing and improving the five major components of vocational agriculture/agribusiness programs; consideration of needs of multicultural and other special needs students; field practice in vocational agriculture/agribusiness evaluation procedures required.

7052 Time Management Techniques in Agricultural Education (3) S Methods and procedures of planning and using time efficiently in conducting the total agricultural education program.

7061 Advanced Agriculture Education Seminar (1) F,S, Su Prereq: consent of graduate faculty. May be taken 4 times for credit. A minimum of 1 sem. hr. of credit required at the master's level; a minimum of 3 sem. hrs. at the Ph.D. level. Selected current professional educational problems in vocational agriculture in one or more of the following areas: curriculum, evaluation, philosophy, supervision, teaching, research, equipment, and vocational agricultural department planning.

8000 Thesis Research (1-9 per sem.)

9000 Dissertation Research (1-9 per sem.)
VOCATIONAL EDUCATION (VOED)

7392 Advanced Vocational Counseling (3) See EDHD 7392.

7398 Field Experiences in Vocational Counseling (3) F,S,Su See EDHD 7398.

7400 Vocational Education for Special-Needs Students (3) Su Regulations, issues, identification, assessment, instruction, employment, and special problems in vocational education for learners with special needs.

7420 Supervision in Vocational Education (3) Su-E 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) S 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) F 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) F,S,Su Provides prospective vocational educators with on-the-job experience under the guidance of 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.

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 multicultural home economics programs explored through interviews, observations, and participation.

3001 Methods in Home Economics Education (3) Prereq: 2.00 gpa. 2 hrs. lecture; 2 one-hour labs on consecutive days. Open only to juniors and seniors majoring in vocational home economics education. Methods and organization of educational programs in home economics; emphasis on secondary-school programs in home economics in schools with students from varied economic and cultural backgrounds.

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 for 12-15 weeks in secondary school programs in a selected home economics department composed of students of multicultural and varied socioeconomic levels.

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 as related to varied cultural and socioeconomic levels.

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 community agencies and in vocational, occupational, and other educational programs with varied audiences.

4003 Independent Reading and Research in Vocational Home Economics Education (1-3) Prereq: consent of director and instructor. May be repeated for credit for a maximum of 3 sem. hrs. Students are responsible for registering with a faculty member with whom they will select the area of reading and research. Faculty-directed individual study.

4004 Methods in Home Economics Education for Noneducation Majors (3) 2 hrs. lecture; 2 hrs. lab. Open to seniors and graduate students majoring in home economics. Methods and organization of home economics educational programs outside the secondary school which incorporate various socioeconomic levels.

7001 Curriculum Study (3) Curriculum development in home and family life education for multicultural groups.

7002 Evaluation (3) Principles and procedures of evaluation in developing, directing, and appraising effective home economics programs for diverse groups.
7003 Supervision in Home Economics Education (3) Open to experienced teachers in home economics. Philosophy, principles, and procedures in supervision of student-teaching and home economics programs.

7004 Home Economics in Higher Education (3) Open to graduate students in home economics and home economics education who are preparing for college teaching.

7005 Current Problems in Home Economics Education (1-4) Prereq: professional experience following the B.S. degree. May be repeated for credit a maximum of 6 sem. hrs. Current professional educational problems in the field of vocational home economics education selected from one or more of the following areas: curriculum, evaluation, philosophy, supervision, teaching and instruction, equipment, departmental planning, occupational programs in home economics.

7006 Seminar in Vocational Home Economics Education (1) May be taken 4 times for credit. Research reporting and topics of current interest.

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) V

2071 Safety Practices and Industrial Hygiene (3) V

2072 Principles of Teaching Vocational Trade and Industrial Education (3) V

2073 Preparation of Instructional Materials (3) V

2074 Vocational Selection and Placement (3) V

2075 Occupational Analysis (3) V

2076 Management of Vocational Industrial Shops (3) V

2077 Testing in Vocational Trade and Industrial Education (3) V

3079 Apprentice Teaching in Vocational Trade and Industrial Education (8) V

**WILDLIFE (WILD)**

2031 Principles of Wildlife Management (2) S Prereq: BIOL 1001, 1002, 1003, 1004; or BOTY 1001, 1002. Wildlife conservation and management; ecology and management of wildlife in relation to the objectives of consumptive and nonconsumptive interest groups.

4010 Ecology and Management of Fur Animals (2) S Ecology, management, life history, and anatomy of fur animals; fur marketing.

4011 Wildlife Management Techniques (3) S 2 hrs. lecture; 3 hrs. lab. Transportation fee. Wildlife literature; age and sex determination; habitat mapping, analysis, and evaluation; wildlife capture and marking techniques; population density, analysis, and evaluation.

4020 Taxonomy and Ecology of Aquatic Plants (3) See BOTY 4020.

4021 Limnology (3) F 2 hrs. lecture; 3 hrs. lab. Biological, chemical, and physical principles in fresh water.

4040 Fisheries Management (3) F Characteristic of fisheries; dynamics of exploited stocks; socio-economic aspects of fisheries; fisheries management techniques; principles of managing wild fisheries stocks.

4061 Selected or Assigned Wildlife Problem (1-4) F,S,Su May be repeated for credit a maximum of 6 sem. hrs.

7001 Research Methodology (3) F See FOR 7001.

7010 Ecology and Management of Birds and Small Mammals (3) F 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) S 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) F 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) S 2 hrs. lecture; 2 hrs. lab. Theories of population growth and regulation, population interaction, life tables, mortality rate calculation; band data analysis; population modeling.

7021 Fishery Research Techniques (2) S 1 hr. lecture; 3 hrs. lab. Transportation fee. Application of common fishery research techniques such as sampling gear usage, tagging, aging, and population estimates.

7022 Water Pollution Biology (3) S Prereq: WILD 4021 or equivalent. 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) F-E 3 hrs. lecture; occasional extended field trips. Transportation fee. Basic ecological aspects of the marine environment and their relevance to oceanic fisheries.

7024 Shellfisheries Biology (3) F-O Prereq: ZOOL 4154 or equivalent. 2 hrs. lecture; 3 hrs. lab. with extended field trips. Transportation fee. Biology and ecology of mollusks and crustaceans; emphasis on species of commercial importance.

7025 Advanced Aquaculture (3) S Prereq: WILD 4022 or equivalent. 4 hrs. lecture; 6 hrs. lab. with occasional extended field trips. Transportation fee. Aquaculture of fish, crustaceans, and mollusks.
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 majoring 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.

2015 Genetics and Society (3) See BOTY 2015.

2152 Comparative Anatomy of the Vertebrates (4) Prereq: 8 sem. hrs. of introductory zoology. 2 hrs. lecture; 6 hrs. lab.

2153 Principles of Genetics (3) Prereq: 6 sem. hrs. of biology or equivalent. For students in biology, pre-medicine, agriculture, liberal arts, or general education. Fundamental laws of heredity as applied to both plants and animals.

2154 Principles of Genetics Laboratory (2) Prereq: credit or registration in ZOOL 2153. 1 hr. lecture; 3 hrs. lab. Lab to accompany ZOOL 2153.

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 2160, students majoring in zoology, or pre-medical students.

2160 Human Physiology (3) May not be taken for credit by students who have had ZOOL 2157. Students majoring in zoology, or pre-medical students. Elements of human physiology; controls and functions of the various organ systems.

3090 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 gpa. 1 hr. conference; 3, 6, or 9 hrs. lab. May not be counted as a 3000-level course with laboratory.

4095 Marine Field Ecology (4) See MRSC 4095.

4104 Histology (4) Prereq: 12 sem. hrs. of zoology or equivalent. 2 hrs. lecture; 6 hrs. lab.

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.

4121 Physiological Genetics (4) Prereq: ZOOL 2153 and 2154; or equivalents. 2 hrs. lecture; 6 hrs. lab. Laboratory based primarily on Drosophila and Neurospora.

4140 Animal Evolution (3) Prereq: ZOOL 2153. Principles and processes in evolution of species and higher categories; emphasis on vertebrates.

4141 Mammalogy (4) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab. Field service fee. Biology of mammals; emphasis on mammal origins, adaptive radiations, and ecology.

4142 Ornithology (4) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab and field work. Field service fee.

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.

4146 Herpetology (4) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab and field work. Field service fee. Taxonomy and natural history of amphibians and reptiles.

4149 Aquatic Invertebrate Zoology (4) Prereq: 8 sem. hrs. of introductory zoology or biology with laboratory; zoology recommended. 2 hrs. lecture; 6 hrs. lab. Field service fee. Aquatic invertebrates; identification, distribution, and ecology.

4152 Protozoology (4) Prereq: 12 sem. hrs. of zoology or equivalent. 2 hrs. lecture; 6 hrs. lab. Cytological, ecological, and physiological phenomena of the protozoa.

4153 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.

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. Environmental factors influencing distribution of animals.

4155 Environmental Physiology (4) Prereq: 12 sem. hrs. of zoology. 3 hrs. lecture; 3 hrs. lab. Physiological adaptations of animals to physical and chemical parameters of the environment.

4157 Cellular Physiology (4) Prereq: 12 sem. hrs. of zoology or equivalent. 3 hrs. lecture; 3 hrs. lab. Physiological systems in cells and tissues.

4158 Endocrinology (3) Prereq: 12 sem. hrs. of zoology.

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 equivalent. 3 hrs. lecture; 3 hrs. lab and field work.

4190 History of Biology (2) See ENTM 4009.
4647 Marine Vertebrate Zoology (6) Prereq: 16 sem. hrs. of zoology including comparative anatomy. Six weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi.

4673 Marine Invertebrate Zoology (6) Prereq: 16 sem. hrs. of zoology. Six weeks at Gulf Coast Research Laboratory, Ocean Springs, Mississippi. Biology of the marine representatives of all phyla from Protozoa through the protochordates.

7105 Helminthology (4) Prereq: ZOOL 4105 or 4134 or equivalent. 2 hrs. lecture; 6 hrs. lab. Development and host-parasite relationship of representative parasitic worms.

7109 Advanced Ornithology (3) Prereq: ZOOL 4142 or equivalent.

7118 Ethology (4) Prereq: consent of instructor. 2 hrs. lecture; 6 hrs. lab. and field work. Evolutionary basis of animal behavior.

7120 Marine Ecology (3) Prereq: consent of instructor. 2 hrs. lecture; 3 hrs. lab. and field work. Also offered as MRSC 7317. Physical, chemical, and biological environmental factors affecting distribution of marine fauna; communities representative of each of the ecological subdivisions of the world's oceans treated with respect to species composition, food webs, and seasonal changes; human impact on the marine environment.

7130 Environmental Physiology of Estuarine Animals (4) Prereq: consent of instructor. 3 hrs. lecture; 3 hrs. lab. Effects of salinity, temperature, and dissolved oxygen on the physiology of estuarine fauna.

7147 Selected Topics in General Zoology (3) Prereq: consent of instructor. May be taken twice for credit when topics vary. Detailed treatment of special areas of zoology; 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 vary. 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.

7153 Mutagenesis (3) Prereq: ZOOL 2153 and consent of instructor. Mechanisms of mutation; methods of detecting mutations; comparisons of effect of mutagenic agents among various test organisms.

7154 Advanced Genetics Laboratory (3) Prereq: ZOOL 2154 and consent of instructor. 1 hr. lecture; 6 hrs. lab. Experiments with Drosophila melanogaster 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.

7156 Experimental Embryology (4) Prereq: ZOOL 2156 or equivalent. 3 hrs. lecture; 3 hrs. lab.

7157 Selected Topics in General Physiology (3) Prereq: consent of instructor. May be taken twice for credit when topics vary. 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 vary. 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 Histocchemistry and Cytochemistry (4) Prereq: 3 sem. hrs. of biochemistry or equivalent. 2 hrs. lecture; 6 hrs. lab.

7171 Physiological Rhythms (3) Prereq: consent of instructor. 1 hr. lecture; 4 hrs. lab. Role of exogenous and endogenous rhythms in regulation of physiological systems.

7177 Neurosensory Physiology (4) Prereq: ZOOL 4155 or 4157 or 4160. 2 hrs. lecture; 6 hrs. lab. Physiology of nerve and sensory receptors; emphasis on vertebrate systems and independent laboratory investigation.

7648 Museum Field Expedition (6) Prereq: consent of instructor. One semester in the field under direction of the Museum of Zoology staff.

7701 Electron Microscopy (2) Same as BOTY 7701, ME 7701, GEOL 7701, MBIO 7701. Transmission and scanning electron microscopy and x-ray analysis of biological and nonbiological materials; theory, operation, and application of the instruments.

7702 Transmission Electron Microscopy Laboratory: Biological Materials (3) S Prereq: credit or registration in ZOOL 7701 or equivalent. 9 hrs. lab. Same as BOTY 7702, MBIO 7702. Preparation of biological specimens for transmission electron microscopy; use of the electron microscope.

7703 Scanning Electron Microscopy Laboratory: Biological Materials (2) S,S,S Prereq: credit or registration in ZOOL 7701 or equivalent. 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 Vertebrate 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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*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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vein → cap → vein → hepatic vein → caps in liver
renal pediccl
renal veins → aorta
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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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ARTHUR R. COLMER (retired)
BEVERLY J. COVINGTON (retired)
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*Section 1-2.2.a., Bylaws and Regulations of the Board of Supervisors.
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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 is the highest professorial rank awarded by the University. Faculty members currently designated as Boyd Professor at LSU are as follows:

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ALVIN L. BERTRAND (retired)  WILLIAM A. PRYOR
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The William A. Read Professorship in English Literature and the Nicholson Professorship of Mathematics are comparable to the Boyd Professorship. The following faculty members currently hold these professorships.

William A. Read Professor of English Literature—LEWIS P. SIMPSON
Nicholson Professor of Mathematics—PIERRE E. CONNER, JR.

In addition to the above, the University’s other distinguished professorships and the faculty members who hold them are as follows:

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Pan-American Life Insurance Company Professorship—ROBERT S. FELTON

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ROSHDY A. ABDERASSOUL, Assistant Professor of Electrical Engineering. Ph.D., Southern Methodist University.
ALI Z. ABED, Instructor in Foreign Languages Lab; Assistant to the Dean, College of Arts and Sciences. M.A., LSU.
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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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ARA ARMAN, Professor of Civil Engineering; Associate Dean for Instruction and Undergraduate Activities, College of Engineering. M.S., University of Texas at Austin.

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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
School of Library and Information Science: Dean, School of Library and Information 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**
114 David Boyd Hall • 388-4423

**Office of High School Relations**
208 Coates Hall • 388-6652

**Office of Housing**
149 Graham Hall • 388-5201

**Office of International Students**
International Center
Raphael Semmes Rd. • 388-3191

**Junior Division**
150 Allen Hall • 388-6822

**Measurement and Evaluation Center**
51 Himes Hall • 388-1145

**Office of Student Aid and Scholarships**
202 Himes Hall • 388-3103

**Student Government Association**
330 Union Building • 388-8727

**Office of Student Records and Registration**
112 Thomas Boyd Hall • 388-1686