The College of Agriculture was established at LSU in 1908; however, its roots go back to the first graduation class that had, as one of its five graduates, a planter. The mission of today's College of Agriculture is one rooted in business, science, and technology. The application of knowledge to meeting the world's food and fiber needs remains the common thread that binds the college's past to its future.

The college's land-grant mission dates to 1862 and consists of three emphases: learning, discovery, and active engagement with the community of which we are a part. The discovery and engagement components of the college's mission are often conducted in concert with the LSU Agricultural Center. Many faculty hold joint appointments with the Louisiana Agricultural Experimental Station or the Louisiana Cooperative Extension Service—the research and education units of the LSU Agricultural Center. The interlinking of learning, discovery and engagement are hallmarks of the land-grant system and are likewise the cornerstones of the College of Agriculture's strategic agenda for the future.

The College of Agriculture is home to more than 4,500 acres of farm and timber land and buildings for the care and study of natural resource sciences, plant, animal, and aquatic life, and other branches of the natural sciences. A compressed video system that links all areas of the state greatly facilitates the delivery of educational programming.

The College of Agriculture and the Agricultural Center are actively involved in disseminating new knowledge and methods throughout the world. Internationally experienced faculty and staff bring their insights and experiences into the classroom to further enhance the learning experience.

To provide programs of excellence to educate undergraduate and graduate students of agriculture, environmental sciences, renewable natural resource sciences, human resource sciences, quantitative sciences, and family and consumer sciences; to support and encourage research, public service, and other scholarly pursuits; to further the purposes of the land-grant college system for the benefit of the citizens of Louisiana, the nation, and the global community.

Strategic Agenda

To achieve our mission, the College of Agriculture has developed a strategic agenda focused on six interdisciplinary areas. These areas encompass broad fields of work and are by their content, interdisciplinary and cross many administrative lines both within the college and in other administrative units. In particular, these areas coincide with and closely follow the research and development agenda of the LSU Agricultural Center.

- Environmental quality and renewable resource management
- Bioscience and technology in agriculture
- Processes and products for added value
- Agribusiness, consumer science, and global competitiveness
- Food quality, nutrition, and health
- Human resource development

COORDINATION WITH THE LSU AGRICULTURAL CENTER

The College of Agriculture, in cooperation with the LSU Agricultural Center, offers students unique and unparalleled educational opportunities. The Louisiana Agricultural Experimental Station maintains research programs in Baton Rouge and at branch stations throughout Louisiana. The Louisiana Cooperative Extension Service disseminates knowledge throughout Louisiana through its network of specialists in Baton Rouge and county agents and home economists in every parish. A compressed video system that links all areas of the state greatly facilitates the delivery of educational programming.

The College of Agriculture and the Agricultural Center are actively involved in disseminating new knowledge and methods throughout the world. Internationally experienced faculty and staff bring their insights and experiences into the classroom to further enhance the learning experience.

Facilities

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

Computer facilities, laboratories, and related research facilities are used for teaching purposes. Land and facilities at branch research stations throughout Louisiana also play a part in the teaching program, particularly at the graduate level. The state's land and water resources; plant, animal, and aquatic life, and its communities and people strengthen instruction through a constantly changing complex of hundreds of research projects.
### COLLEGE OF AGRICULTURE • UNDERGRADUATE DEGREES

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<tr>
<th>Departments/Schools</th>
<th>Curricula</th>
<th>Degrees</th>
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<td>Department of Agricultural Economics &amp; Agribusiness</td>
<td>Agricultural Business</td>
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<tr>
<td>Department of Agronomy</td>
<td>Environmental Management Systems</td>
<td>Plant and Soil Systems</td>
</tr>
<tr>
<td>Department of Animal Sciences</td>
<td>Animal, Dairy, and Poultry Sciences</td>
<td></td>
</tr>
</tbody>
</table>
| Department of Biological 
  & Agricultural Engineering                  | (see College of Engineering)                    |                      |
| Department of Dairy Science                | Animal, Dairy, and Poultry Sciences             |                      |
| Department of Entomology                   | Plant and Soil Systems                          |                      |
| Department of Experimental 
  Statistics                                     | (see “Graduate School • Professional Programs” section of this catalog.) |                      |
| Department of Food Science                 | Food Science and Technology                     |                      |
| Department of Horticulture                 | Plant and Soil Systems                          |                      |
| Department of Plant Pathology 
  & Crop Physiology                          | Plant and Soil Systems                          |                      |
| School of Human Ecology                    | Dietetics                                       |                      |
|                                          | Family, Child, and Consumer Sciences           |                      |
|                                          | Textiles, Apparel, and Merchandising           |                      |
| School of Human Resource Education 
  & Workforce Development                     | Vocational Education                            |                      |
| School of Renewable Natural Resources      | Forestry (Forest Management)                    | Bachelor of Science in Forestry                    |
|                                          | Wildlife and Fisheries                          | Bachelor of Science                                      |
|                                          | Prevetinary Medicine*                           |                      |

*Prevetinary medicine is not a degree-granting curriculum.

Throughout the state that are coordinated with the teaching program. Similarly, research, teaching, and extension activities in foreign countries are made an active part of the classroom instruction.

Livestock include purebred herds of Angus, Brahman, and Hereford cattle that are used in teaching and research studies. Artificial insemination and embryo transfer are used to incorporate current genetics from leading herds in Louisiana and throughout the U.S. Other herds of beef cattle near the campus include breeds and crosses representative of the Southern beef cattle industry. Brahman-British cow herds are bred to either British or heavy muscled terminal sire breeds such as Charolais or Belgian Blue bulls to produce a broad range of cattle types for research and teaching purposes. The dairy herd is composed of the Holstein breed. Breeds of sheep include Gulf Coast (Louisiana) Native and Suffolk. The swine herd is comprised of purebred Yorkshires and a crossbred herd of Yorkshire-Landrace sows that are bred to heavy muscled Hampshire, Duroc, or commercial breeding company hybrid line boars to produce market hogs that are representative of the swine industry. A number of Quarter Horses and grade mares are maintained for research and instruction. The Dairy Improvement Center cooperates with Genex in the operation of a commercial artificial breeding program. Commercial strains of poultry are used in instruction and research.

### ADMISSION REQUIREMENTS

Within the framework of University regulations, students may be admitted to the college according to the following policies:

- **Any student who has been regularly admitted by LSU with a declared major in agriculture will be admitted directly into the College of Agriculture.**
- **Students admitted from University College or any other division of the University must have completed a minimum of 24 semester hours with a 2.00 average on all work taken and have earned a grade of “C” or better in ENGL 1002 and MATH 1021.**
- **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 required of University College students or those in the Louisiana**
College of Agriculture

Consortium of Public Agricultural Colleges (LCPAC) curriculum, may be admitted to the college on the same basis as students entering from other divisions of the University. Transfer credits acceptable for admission purposes shall be valid for degree credit in the college only to the extent to which they represent courses acceptable in the curricula of the College. Transfer students applying for credit in any department or school within the college may be required to take a comprehensive examination before credit is allowed.

- On recommendation of the appropriate department head and the dean of the college, probationary admission may be granted in special cases.

SCHOLASTIC REQUIREMENTS

In addition to University requirements, the College of Agriculture has these additional scholastic requirements:

- Students who fail to earn a 2.00 average in each of two consecutive semesters (or one semester and a summer term) and whose LSU or overall grade-point average is below a 2.00, will be declared ineligible to continue in the College of Agriculture for one regular semester.
- Seniors who have completed the first semester of the senior year, are degree candidates, and are under scholastic suspension from the University, may be placed on probation for one additional semester at the discretion of the dean of the College of Agriculture.

LOUISIANA CONSORTIUM OF PUBLIC AGRICULTURAL COLLEGES

Louisiana State University is a member of the Louisiana Consortium of Public Agricultural Colleges (LCPAC). The consortium has developed a 60-hour, two-year core curriculum to facilitate the transfer of agricultural students among Louisiana public colleges and universities. The articulation policy for the LSU College of Agriculture is shown below.

<table>
<thead>
<tr>
<th>LSU COURSE EQUIVALENCIES FOR THE LCPAC CORE</th>
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<tbody>
<tr>
<td>CORE COURSE</td>
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<td>Agriculture (Plant)</td>
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<td>Agriculture (Electives)</td>
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<td>English Literature</td>
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<td>History</td>
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<tr>
<td>Humanities Electives</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>Social Sciences Electives</td>
</tr>
</tbody>
</table>

TOTAL HOURS: 60

* A grade of “C” or higher is required in ENGL 1002 and MATH 1021 to receive an agricultural degree from LSU.
DEGREE REQUIREMENTS OF THE COLLEGE

The baccalaureate degree is conferred on students who fulfill the following requirements:

- Students must complete their curricula with a minimum gpa of 2.00 in the College of Agriculture.
- Students in the College of Agriculture must complete ISDS 2000 or EXST 2201; ACCT 2000 or 2001, 2101; ECON 2030, 2035; FIN 3715; MGT 3200, and MKT 3401. (Students interested in pursuing the M.B.A. degree should elect ACCT 2001 and MATH 1431 and 1435. This minor is open only to College of Agriculture students.)
- Students must complete a minor in agricultural business—available to students majoring in agricultural business.
- Students in the College of Agriculture must complete ISDS 2000 or EXST 2201; ACCT 2000 or 2001, 2101; ECON 2030, 2035; FIN 3715; MGT 3200, and MKT 3401. (Students interested in pursuing the M.B.A. degree should elect ACCT 2001 and MATH 1431 and 1435. This minor is open only to College of Agriculture students.)
- Agricultural Pest Management
  - To graduate with a minor in agricultural pest management, students must complete a minimum of 18 hours of course work in pest management. Specific requirements include: ENTM 2001 or PLHL/ENTM 2050; PLHL 4000; AGRO 4070; and eight additional hours chosen from ENTM 4001, 4005, 4006, 4012, ENTM/PLHL 4018; PLHL 4001, AGRO 4071. Of the eight elective hours at least one course must be from entomology.
- Agronomy
  - To graduate with a minor in agronomy, students in this college must complete 18 hours consisting of AGRO 2051, 3000, and two courses chosen from AGRO 3011, 3012, 3013; and nine additional hours chosen from AGRO 3040, 4005, 4052, 4055, 4056, 4058, 4064, 4078, 4080, 4086, 4087, 4091, 4092.
- Animal, Dairy, and Poultry Sciences
  - To graduate with a minor in animal, dairy, and poultry sciences (18 hrs.), students must complete a minimum of 18 hours of course work in animal, dairy, or poultry sciences with at least nine hours at the 4000 level and maintain a 2.00 average on all work taken. Students majoring in animal, dairy, and poultry sciences may not also minor in this curriculum.
- Applied Statistics
  - To graduate with a minor in applied statistics, students must complete a minimum of 18 hours of course work consisting of:
    - EXST 2201, 3201, 4050; and
    - Six hours from EXST 3001, 4012, and 4087.
- Aquaculture
  - To graduate with a minor in aquaculture (19-20 hrs.), students must complete the following: required courses (10 hrs.)—RNR 4022, 4025, and 4105; fisheries and aquaculture—at least 6 hrs selected from the following: RNR 2002, 4037, 4040, 4106, or 4145; plant taxonomy and ecology—select one from: RNR 4020, OCS 4308, or BIOL 4052.
- Business Administration
  - To graduate with a minor in business administration (24-25 hrs.), students in the College of Agriculture must complete ISDS 2000 or EXST 2201; ACCT 2000 or 2001, 2101; ECON 2030, 2035; FIN 3715; MGT 3200, and MKT 3401. (Students interested in pursuing the M.B.A. degree should elect ACCT 2001 and MATH 1431 and 1435. This minor is open only to College of Agriculture students.)
- Entomology
  - To graduate with a minor in entomology, students must complete a minimum of 18 hours of course work in entomology with at least nine hours at or above the 3000 level. Specific requirements include ENTM 2001 and 4005 and 11 hours from the following: ENTM 2050, 4001, 4006, 4011, 4012, 4015, 4016, 4018, 4099, 4100, and 4199.
- Fisheries
  - To graduate with a minor in fisheries (19-20 hrs.), students must complete the following courses: fisheries—RNR 4023, 4025, 4037, 4040, and 4145; plant taxonomy and ecology—select one from: RNR 4020, OCS 4308, or BIOL 4052.
- Forestry
  - To graduate with a minor in forestry (18 hrs.), students must complete the following: forest biology—RNR 2001, 2101, silviculture—RNR 3002; mensuration—RNR 3102;—forestry electives select five hours from ENTM/PLHL 4018; RNR 4021, 4030, 4032, 4033, 4036, 4038, or 4064.
- Horticulture
  - To graduate with a minor in horticulture, students in the College of Agriculture must complete HORT 2050, 2061, 2076, and at least three of the following courses: HORT 3000, 3010, 4021, 4051, 4071, 4083, 4085, 4086, 4087, and/or 4096. The minor in horticulture is not available to students majoring in plant and soil systems.
- Nutrition, Food, and Culinary Sciences
  - To graduate with a minor in nutrition, food, and culinary sciences, students must complete 21-25 hours: (1) HUEC 1010; (2) HUEC/FDS 214; (3) HUEC/FDS 315; (4) FDSC 4076; (5) FDSC 4162; (6) two additional courses from ANSC 3033, 3053, 4094; DARY 2075, 2085, 4020, 4040, 4081; FDSC 4005, 4050, 4060, 4070, 4095, 4162;
Hort 4051, 4096; Huec 2012, 2018, 3012, 3016, 3019, 3020, 4010, 4011, 4014, 4023; PLC 4032. Students must declare this minor area with the academic counselor in the College of Agriculture for the minor to appear on the student’s official transcript. Upon completion of the minor area, the student must have a minimum gpa of 2.00 in the minor field on all work taken in the LSU System and on all work taken. This minor is not available to students majoring in nutrition, food, and culinary sciences.

- Nutritional Sciences

To graduate with a minor in nutritional sciences, students must complete 19 hours including HUEC 2010, 2012, 2018, AND 3012. In addition, students must choose one of the two areas of study options listed below:
  - Community Nutrition—HUEC 2019, 3016, and either HUEC 3010 or 4016.
  - Nutrition—HUEC 4010, 4011, 4014, 4021.

- Rural Sociology

To graduate with a minor in rural sociology, students in the College of Agriculture must complete (1) SOCL 1001 or 2001; (2) SOCL 2351; (3) two of the following: SOCL 4351, 4551, 4701, or 4711; and (4) at least six additional elective hours in sociology. Students interested in pursuing a graduate degree in rural sociology are encouraged to elect SOCL 2211 and 3101.

- Textiles, Apparel, & Merchandising

To graduate with a minor in textiles, apparel, and merchandising, students in the College of Agriculture must complete 11 hours consisting of HUEC 2040, 2041, 2032, 2045; and nine additional hours chosen from HUEC 3030, 3032, 3041, 3034, 4030 or 4041, 4043. Students must comply with all prerequisites and must achieve a minimum grade of “C” in every course taken in the minor field. This minor is not available to students majoring in textiles, apparel, and merchandising.

- Vocational Education

To graduate with a minor in vocational education, students in the College of Agriculture must complete 18 sem. hrs.: VED 2001, 3200, 4301; 6 hrs. from VED 4504, 4025, 4704, 4705; HEED 4004; EXED 4011; INED 3055, 3062; 3 sem. hrs. chosen from any course offered by the School of Human Resource Education & Workforce Development.

- Wildlife Ecology

To graduate with a minor in wildlife ecology, students must complete the following:
  (1) Required courses—9 sem. hrs. RNR 2031, 4051 4039; (2) Area courses—one course selected from the following: RNR 3004, 3102, 4011, 4103, or 4107; (3) Plant Taxonomy—one course selected from the following: RNR 2001, 4020, BIOI 4041 or 4055; (4) Animal Taxonomy—one course selected from the following: RNR 3018, 4145 or BIOI 4141, 4142, 4146.

This minor is not available to students majoring in the wildlife area of concentration in the wildlife and fisheries curriculum.

CORRESPONDENCE AND EXTENSION CREDIT

Up to one-fourth of the number of hours required for the baccalaureate degree may be taken through the Division of Continuing Education, either through correspondence study or as extension credit or both. Before scheduling such work, however, students should obtain approval from the dean of the college.

ENROLLMENT IN TWO DEGREE PROGRAMS

With the dean’s approval, a student may be enrolled in two degree programs concurrently. A student can enroll as a dual registrant using one of the following procedures:
  • Dual Enrollment within the College of Agriculture—By completing residence and academic requirements for two degree programs, a student may earn one bachelor of science degree with two majors. By completing residence and academic requirements, and earning 30 hours over the degree requiring the fewer number of hours, a student may earn two separate bachelor’s degrees.
  • Dual Enrollment in the College of Agriculture and a Second Academic College—By completing residence and academic requirements for two degree programs and earning 30 hours more than the degree requiring the fewer number of hours, a student may earn two bachelor’s degrees. The student must be accepted for admission to both colleges and must adhere to the regulations of both colleges. In addition, the student must declare a home college where registration will be initiated and permanent files maintained. It is the student’s responsibility, however, to maintain contact with the second college to ensure that satisfactory progress is being made toward that degree.

PHI KAPPA PHI

Phi Kappa Phi, a national scholastic honor society founded in 1897, now contains 282 chapters nationwide. It is one of the most prestigious scholastic honor societies in the U.S. The LSU chapter was founded in 1930 as the 43rd chapter in the nation. At the present time, the national office is located on this campus in the French House.

The primary objectives of Phi Kappa Phi are to promote the pursuit of excellence in higher education and to recognize outstanding achievement by students and faculty through election to membership and through various awards and fellowships. Phi Kappa Phi is unique because it recognizes superior scholarship in all academic fields, rather than restricting membership to a limited field. Juniors in the top five percent and seniors and graduate students in the top 10 percent of their classes may be invited to become members of Phi Kappa Phi. LSU Phi Kappa Phi members are initiated and honored in the spring semester each year and wear identifying ribbons on their academic gowns at commencement exercises.

GRADUATE PROGRAMS

Through the Graduate School, the college offers master’s and doctoral degrees in the fields of agricultural economics, agronomy, animal and dairy sciences, entomology, food science, forestry, horticulture, human ecology, plant health, and vocational education. A doctoral degree in wildlife and fisheries science is also offered. In addition, master’s degrees are offered in applied statistics, fisheries, and wildlife. For further details, consult the “Graduate School • Professional Programs” section of this catalog.

AGRICULTURAL STUDENT ASSOCIATION

The Agricultural Student Association (ASA) consists of all students in the College of Agriculture as well as any student in University College with a declared major in agriculture. The ASA brings the various student organizations in the college together for cooperative events and serves in an advisory role to the dean of the college. The ASA is governed by the Agricultural Student Council (ASC) that consists of representatives from each student organization in the college and officers who are elected annually.

DEPARTMENTS, SCHOOLS, AND CURRICULA

The dean, directors of schools, heads of departments, and members of the faculty of the college will consult with students on their choices of curricula. Requests for substitutions for required courses in all curricula in the college must have approval of the dean, upon recommendation of the head of the department or school. A maximum of six semester hours of basic ROTC and eight semester hours of advanced ROTC may be allowed for elective credit in any curriculum.

DEPARTMENT OF AGRICULTURAL ECONOMICS & AGribusiness

HEAD • Cramer, Professor
OFFICE • 101 Agricultural Administration Building
TELEPHONE • 225/578-3282
FAX • 225/578-2716

WILLIAM H. ALEXANDER ENDOwED PROFESSOR • P. Singelmann

WARNER L. BRUNER PROFESSOR • Vandeveer

DAVID M. KRISKOVICH DISTINGUISHED PROFESSOR OF AGRICULTURAL ECONOMICS AND AGribusiness • Singelmann

MARTIN D. WOODIN ENDOwED PROFESSOR OF AGRICULTURAL BUSINESS • Schupp

PROFESSORS EMERITI • Corts, Fielder, Harper, Hudson, Law, Traylor, Wiegmann, Woodin

PROFESSORS • Cramer, Dooley, Giesler, Guedry, Hinson, Johnson, Paxton, Walker, Schupp, Singelmann, Vandeveer, Wiegenhoff, Zapata
ASSOCIATE PROFESSORS • Caffey, Gauthier, Guidry, Gillespie, Harrison, Henning, Kazmierczak, P. Kennedy, Tootle
ASSISTANT PROFESSORS • Paudel, Schafer, Westra
INSTRUCTOR • Niu
SPECIALIST • Overstreet
ADJUNCT FACULTY • Hill, G. Kennedy
CURRICULUM COORDINATOR • Harrison, Associate Professor
OFFICE • 230 Agricultural Administration Building
TELEPHONE • 225/578-2727
CURRICULUM:
• Agricultural Business

The agricultural business curriculum offered by the Department of Agricultural Economics & Agribusiness provides training for a wide variety of careers in the agribusiness industry. The program integrates the disciplines of business and agricultural business, economics, quantitative methods, and agricultural sciences. Course offerings include courses in agribusiness management, marketing, credit and finance, agricultural production economics, natural resource economics, agricultural policy and law, price analysis, statistics, quantitative methods, and computer applications.

The curriculum in agricultural business emphasizes use of management, marketing, finance, law, and other business principles in the solution of problems in the agribusiness industry. This curriculum provides students with excellent preparation for careers in farm management, agricultural law, commodity trading, sales, marketing, real estate, international trade, insurance, agricultural processing, management, communications, public relations, finance, and appraisal.

Students majoring in curricula offered through other departments in the College of Agriculture may minor in agricultural business. See the listing of the College of Agriculture minors for details.

CURRICULUM IN AGRICULTURAL BUSINESS

TOTAL SEM. HRS. • 134

General Education Course Requirements
• Arts, humanities, and social sciences— select from approved general education courses listed in a separate section of this catalog.

FRESHMAN YEAR SEM. HRS.
Agricultural Economics 1003 3
Biological Sciences 1001, 1002 6
Chemistry 1001, 1002 6
English 1000/1001, 1002 6
Mathematics 1021, 1431 6
College of Agriculture elective 3
Electives or ROTC 33

SOPHOMORE YEAR SEM. HRS.
Agricultural Economics 2003 3
Agronomy 2051 4
Economics 2030, 2035 6
English 2002 3
Experimental Statistics 2201 4

Communication studies 2060, 2061 6
General education humanities course 3
Elective or ROTC 3

JUNIOR YEAR SEM. HRS.
Accounting 2001; and 2021 or 2101 6
Agricultural Economics 3003, 3203, 3213, 3413, 3503 or 3603, or 4503 15
Finance 3200 or 3201 3
Management 3200 3
Marketing 3401 3
College of Agriculture elective 3
General education arts course 3

SENIOR YEAR SEM. HRS.
Agricultural Economics 4273, 4403, 4413, 4433, 4603 15
General education humanities course 3
General education social sciences course 3
Area of concentration courses/approved AGEC electives 6
Area of concentration courses/electives 6

Areas of Concentration

♦ Agribusiness Finance

Required Courses (12 hrs.)—AGEC 3303 and 4443; and six hours to be selected from one of the following areas: (1) Real Estate—FIN 3351, 3382, 3383, 3353 or (2) Investment—FIN 3340, 3632, 3636, 3715, 3717, 3826.

♦ Agribusiness Management

Required Courses (12 hrs.)—six hours to be selected from a list of AGEC courses and six hours to be selected from a list of INED and MGT courses; both lists are available in the Department of Agricultural Economics & Agribusiness.

♦ International Marketing

Required Courses (12 hrs.)—AGEC 3603 and MKT 4443; and six hours to be selected from a list of courses in AGEC, MGT, or foreign languages available in the Department of Agricultural Economics & Agribusiness.

DEPARTMENT OF AGRONOMY

HEAD • Martin, Professor
OFFICE • 104 Sturgis Hall
TELEPHONE • 225/578-2110
FAX • 225/578-1403

LEE F. MASON LSU ALUMNI ASSOCIATION

CURRICULUM COORDINATOR • Breitenbeck, Professor
OFFICE • 314 Sturgis Hall
TELEPHONE • 225/578-1362

CURRICULUM:
• Plant & Soil Systems (Agricultural Pest Management Area; Crop Management Area; Soil Science Area)
• Environmental Management Systems

The Department of Agronomy offers degree programs in plant & soil systems and environmental management systems curricula. These curricula provide students with excellent preparation for careers in management, consulting, regulatory and public relations, or sales and services in agricultural, natural resources, or environmental industries. Some students use these science-based curricula as foundations to pursue graduate studies in agronomic and environmental sciences or professional degrees in medicine or law.

Students are given opportunities to gain valuable experience through internships in the agronomic or environmental business communities, special research projects with faculty members, and/or part-time student employee positions.

PLANT AND SOIL SYSTEMS

Agronomy students in the plant and soil systems curriculum can concentration their studies in the areas of crop management, soil science, or agricultural pest management. In addition to the basic curriculum outlined for plant and soil systems majors, students selecting the crop management area of concentration take courses in agronomy, biological sciences, economics, entomology, experimental statistics, genetics, and plant health, as well as several hours in approved electives.

The agricultural pest management area of concentration is an interdisciplinary program of study in weed science, plant pathology, and entomology. The concentration features a strong core of courses in the three pest management disciplines, a strong background in agriculture, biological and physical sciences, and practical training through an internship work experience. A range of restricted and non-restricted electives allow students to personalize their degree program based on employment goals.

Students interested in pursuing a minor in agricultural pest management or agronomy may take suggested courses for the minor as part of approved and free electives. (See the section on “Minor Field Requirements” in this chapter.)

CURRICULUM IN PLANT AND SOIL SYSTEMS

TOTAL SEM. HRS. • 131-133

1 For crop management and soil science areas of concentration
2 For horticultural science; ornamental, olericulture, and pomology; and turfgrass management areas of concentration
For agricultural pest management area of concentration

For urban entomology area of concentration

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<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Biological Sciences 1202, 1209</td>
<td>4</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
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<td>English 1000/1001, 1002</td>
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<tr>
<td>General education arts course</td>
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<tr>
<td>General education social sciences course</td>
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<td>TOTAL SEM. HRS.</td>
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<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
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<tr>
<td>Agronomy 2051</td>
<td>4</td>
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<td>Chemistry 2060 or 2261</td>
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<tr>
<td>Agricultural Economics 2030 or Economics 2030</td>
<td>3</td>
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<tr>
<td>Communication studies 2060</td>
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<td>Approved electives</td>
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<td>TOTAL SEM. HRS.</td>
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<thead>
<tr>
<th>JUNIOR YEAR</th>
<th>SEM. HRS.</th>
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<tr>
<td>Biological Sciences/Plant Health 3060</td>
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<td>Agronomy 3010 or 3090 or Agronomy 3090</td>
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<td>Horticulture 3000 or 3010 or Plant Health/Entomology 3000*</td>
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Areas of Concentration

* Agricultural Pest Management (29-32 hrs.)

Dairy Science 2072 or Biological Sciences 2153; Biological Sciences 4041 or 4055; Plant Health/Entomology 3002; Plant Health 4001; Agronomy 4070, 4071; Entomology 2001, 4006; Entomology 4001, 4012; Entomology/Plant Health 4018; Plant Health/Entomology 3000; Plant Health 4014 (select two).

A list of approved electives available in the Department of Agronomy.

* Crop Management (29-30 hrs.)

Agronomy 1001, 3000, 3011, 3012, 3013 (select two); Agronomy 3040, 4070, 4080; Biological Sciences 1011 or 2051 or 2083 or 4087; 2153; Entomology 4006; Plant Health 4001.

A list of approved electives available in the Department of Agronomy.

* Soil Science (30-31 hrs.)

Agronomy 4055, 4056, 4058; Biological Sciences 1011 or 2051; Chemistry 2001, 2002; Geology 1001, 1611; Mathematics 1022; Physics 2001, 2108.

A list of approved electives is available from the Department of Agronomy.

ENVIRONMENTAL MANAGEMENT SYSTEMS

| CURRICULUM COORDINATOR • Breitenbeck, Professor |
| OFFICE • 314 Sturgis Hall |
| TELEPHONE • 225/578-1362 |

The environmental management systems curriculum provides students with rigorous training in the basic sciences that underlie complex environmental issues as well as in-depth preparation in one of three areas of concentration in environmental management.

The environmental science area of concentration emphasizes courses in basic and applied sciences for those planning careers as field managers, laboratory analysts, or other technical specialists and provides sound preparation for graduate studies in environmental science or for professional degrees in medicine and related fields.

The policy analysis area of concentration is intended for those seeking careers in environmental regulation and compliance, environmental auditing or environmental law.

The resource management area of concentration prepares students for careers in the management and conservation of natural systems, including non-point source pollution abatement, soil conservation, wetland conservation, land use planning, and land restoration. Students are able to refine their career goals by meeting environmental professionals through their classes and club activities and consulting with curriculum advisors to plan an appropriate course of study.

Our graduates are employed by both the private sector and governmental agencies where they can develop rewarding careers as policy analysts, regulatory auditors and enforcers, field project managers, information officers, educators, natural resource managers, consultants, laboratory and geographic information specialists, or public advocates.

CUMRICULUM IN ENVIRONMENTAL MANAGEMENT SYSTEMS

TOTAL SEM. HRS. • 130

1 Policy Analysis and Resource Conservation Concentrations

2 Environmental Science Concentration

Approved Electives: A list of approved electives is available from the Department of Agronomy. Students may select no more than six hrs. of approved electives below the 3000 level.

FRESHMAN YEAR | SEM. HRS. |
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<td>Biological Sciences 1201, 1208 and 1202, 1209</td>
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English 1000/1001, 1002 | 6 |

Environmental Management Systems 1011 | 3 |

Mathematics 1021, 1022 | 6 |

General education arts course | 3 |

TOTAL | 34 |

SOPHOMORE YEAR | SEM. HRS. |
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<td>Chemistry 2060* or 2261</td>
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JUNIOR YEAR | SEM. HRS. |
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TOTAL | 33 |

SENIOR YEAR | SEM. HRS. |
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<tr>
<td>Electives or ROTC</td>
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TOTAL | 30 |

Areas of Concentration

* Environmental Science

Required Courses (30 hrs.)—CHEM 2001, 2002, 2262; BIOL 2051; AGRO 4055; select one: OCS 4040 or 4165; select one AGRO 4056, BIOL 3115 or 4110 or 4090; and nine (9) hrs. of approved electives from a list at the department or college.

* Policy Analysis

Required Courses (30 hrs.)—ACCT 3223 and 4236; AGRO 4078; ENVS 4101; select one: FIN 3201 or AGEC 3803; select one: ECON 4320 or AGEC 3503; select one: ENVS 4149 or OCS 4465; and ten (10) hrs. of approved electives from a list at the department or college.

* Resource Conservation

Required Courses (30 hrs.)—AGEC 3503; AGRO 3040, 4052, and 4078; GEOG 4045 or 4047; ENVS 4101; and select one: OCS 4560 or 4465 or 4166; and ten (10) hrs. of approved electives from a list at the department or college.
DEPARTMENT OF ANIMAL SCIENCES

HEAD • Humes, Professor
OFFICE • 105 Francioni Hall
TELEPHONE • 225/578-3241
FAX • 225/578-3279
E-MAIL • phumes@agctr.lsu.edu

BOYD PROFESSOR • Godke
MR. AND MRS. HERMAN E. McFATTER ENDOWED PROFESSOR IN ANIMAL SCIENCES • Franke
MERYL NEWSOM ANNISON MEMORIAL ENDOWED PROFESSOR • Bidner
PROFESSOR EMERITUS • White
PROFESSORS • Bidner, Chapman, Davis, Del Vecchio, Depew, Fernandez, Franke, Godke, Hansel, Humes, McMillin, Satterlee, Southern, Thompson
ASSOCIATE PROFESSOR • Ingram
ASSISTANT PROFESSORS • Denniston, Laverne
INSTRUCTORS • Dean, Gentry
ADJUNCT FACULTY • Derouen, Dresser, Dumas, Leibo, Miller, Pacchamonti, Page, Pope, Sanson, Wyatt

CURRICULUM COORDINATOR • Bidner, Professor (Animal Science)
OFFICE • 116 Francioni Hall
TELEPHONE • 225/578 3437

CURRICULUM COORDINATOR • Ingram, Associate Professor (Poultry Science)
OFFICE • 118 Ingram Hall
TELEPHONE • 225/578 3950

CURRICULUM:
• Animal, Dairy, and Poultry Sciences (Animal Science Area, Poultry Science Area, Science and Technology Area, “Three-Plus-One Program”)

The Department of Animal Sciences offers programs in animal science and poultry science (animal, dairy, and poultry sciences curriculum) that provide individuals with a broad educational background tailored to meet their needs and aptitudes. Such preparation provides graduates with employment opportunities in all phases of animal and poultry production, processing, distribution, marketing, research, and teaching. Preparatory curricula also are provided for subsequent training at the graduate level or in veterinary medicine.

Qualified undergraduate students have the opportunity to participate in the Summer Internship Program with well-paid stipends. This program integrates academic experience on campus with work experience off campus, providing a total educational experience that prepares the student for responsible participation in industry following graduation.

ANIMAL, DAIRY, AND POULTRY SCIENCES

The curriculum in animal, dairy, and poultry sciences consolidates the programs in the Departments of Animal Sciences and Dairy Science. Students take basic courses during the first two years and follow a selected area of concentration during the junior and senior years. Within each area of concentration, students select approved and free electives. Students interested in choosing an approved minor can take the suggested courses for the minor as part of approved and free electives. See the listing of College of Agriculture minors for details.

Prior to entering the program, students are encouraged to consult a counselor for guidance in scheduling courses. Those students interested in entering the School of Veterinary Medicine must take BIOL 1201 and 1208, 1502 and 1509, 2051, 2083; CHEM 2261, 2262, 2364 or CHEM 2060, MATH 1021 and 1022; PHYS 2001 and 2002; and CMST 2010 or 2060 to meet admission requirements.

Graduates of the animal, dairy, and poultry sciences curriculum find career opportunities in a variety of production enterprises and animal-related agribusinesses, such as commercial livestock, dairy, and poultry enterprises; feed, pharmaceutical, and supply companies; commodity processing and food product industries; and various state and federal agencies including the cooperative extension service. Students selecting the science-directed electives are prepared to enter graduate school.

CURRICULUM IN ANIMAL, DAIRY, AND POULTRY SCIENCES

TOTAL SEM. HRS. • 134

*The number of credit hours in each group in the junior and senior years depends on the area of concentration. The total for each year must equal that specified in the curriculum.

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Area of concentration course*</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Animal Science 1011, or Dairy Science 1048, or Poultry Science 1049</td>
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<tr>
<td>Biological Sciences 1001, 1002, 1005, or Biological Sciences 1201, 1208, 1502, 1509</td>
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<td>Chemistry 1201, 1202, 1212</td>
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<td>English 1000/1001, 1002</td>
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SOPHOMORE YEAR

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<td>Biological Sciences 2051</td>
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<td>Chemistry 2060 or 2261</td>
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<td>Economics 2030 or AGEC 2003</td>
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<td>Experimental Statistics 2201</td>
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<td>General education humanities courses</td>
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<td>General education social sciences course</td>
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JUNIOR YEAR

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<td>Electives or ROTC*</td>
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SENIOR YEAR

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<td>Electives or ROTC*</td>
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Areas of Concentration

♦ Animal Science

Required Courses (34 hrs.)—ANSC 2133, 3033, 3053, 4009, 4092, EXST 2000, VETS 2000. Select ANSC 4018, 4045, and DARY 3010 and any two from ANSC 4001, 4081, 4084, 4086, 4088; or select ANSC 4094, FDSC 4000, 4040, 4162, and either FDSC 4005 or 4050.

Approved Electives (20 hrs.)—Select any 2000-level or higher courses from an approved list available from the Department of Animal Sciences.

♦ Poultry Science

Required Courses (16 hrs.)—PLSC 2040, 4032, 4052, VETS 4004 or DARY 4200; PLSC 4031 or FDSC 4005; PLSC 4051 or PLSC 4040.

Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list available from the Department of Animal Sciences.

♦ Science and Technology

Required Courses (32 hrs.)—Select at least 16 hrs. from courses in ANSC, DARY, or PLSC, and remaining hours from BIOL 3000-4999, CHEM 2000-4999, PHYS 2000-4999, or NS 4000-4999.

Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list available from the Departments of Animal Sciences or Dairy Science.

♦ Three-Plus-One

Required Courses (38 hrs.)—completion of first year of LSU School of Veterinary Medicine curriculum with a gpa of at least 2.00.

Approved Electives (21 hrs.)—Select from the list of approved electives available in the Departments of Animal Sciences or Dairy Science.

Students entering the School of Veterinary Medicine after completion of the first three years of the animal, dairy, and poultry sciences curriculum (102 hours) may receive the B.S. degree following successful completion of the first year of the professional curriculum in veterinary medicine. (See the School of Veterinary Medicine Bulletin for details of the first year of the professional curriculum.)

Students pursuing this program will be required to establish residence in the College of Agriculture for 30 semester hours prior to entering the School of Veterinary Medicine. They also must make application for the degree through the dean's office in the College of Agriculture no later than 15 days after classes begin in the semester in which the degree is to be awarded.
DEPARTMENT OF BIOLOGICAL & AGRICULTURAL ENGINEERING

ACTING HEAD • Bengston, Professor
OFFICE • 149 E. B. Doran Building
TELEPHONE • 225/578-3153
FAX • 225/578-3492

PROFESSORS EMERITI • Braud, Cochran, Lawson, Mayeux, Sister, Stipe, Verma, Wright
PROFESSORS • Bengston, Branch, Brown, Hannaman, Rester, Velupillai
ASSOCIATE PROFESSORS • Drapcho, Lima, Mailander
ASSISTANT PROFESSORS • Hall, Monroe, Price, Walker
ADJUNCT FACULTY • Fouss, Komecki, Parish, Rein, Robbins, Russ

CURRICULUM:
• Biological Engineering

(See the “College of Engineering” section of this catalog.)

DEPARTMENT OF DAIRY SCIENCE

HEAD • Jenny, Professor
OFFICE • 111 Dairy Science Building
TELEPHONE • 225/578-4411
FAX • 225/578-4008

PROFESSORS EMERITI • Adkinson, Baham, Frye, Gholson, Roussel, Russ
PROFESSORS • Chandler, Gaugh, Hay, Jenny
ASSOCIATE PROFESSOR • Hutchison
ASSISTANT PROFESSORS • Aryana, Bateman, Williams

INSTRUCTORS • Baron, Boeneke
ADJUNCT FACULTY • Bordson, Degelos, McCormick, McGregor, Nipper, Owens, Samkutty, Snider, Ward

CURRICULUM COORDINATOR • Jenny, Professor
OFFICE • 111 Dairy Science Building
TELEPHONE • 225/578-4008

CURRICULUM:
• Animal, Dairy, and Poultry Sciences (Dairy Production Area, Dairy Foods Technology Area, Science and Technology Area, “Three-Plus-One Program”)

The Department of Dairy Science, in cooperation with two other departments, offers the curriculum in animal, dairy, and poultry sciences. A concentration in dairy production involves all aspects of milk production including dairy cattle nutrition, genetics, reproductive physiology, herd health, and farm management. The concentration in dairy foods technology involves all aspects of dairy product manufacturing, quality assurance, packaging, marketing, and distribution of the final product to the consumer.

Some students participate in research activities with various faculty members while others participate in the operation of the dairy farm and dairy plant. These activities offer students an opportunity to gain valuable experience to supplement classroom studies.

ANIMAL, DAIRY, AND POULTRY SCIENCES

The curriculum in animal, dairy, and poultry sciences consolidates the curricula for the Departments of Animal Sciences and Dairy Science. Students take basic courses during the first two years and follow a selected area of concentration during the junior and senior years. Within each area of concentration, students select approved and free electives. Students interested in choosing an approved minor can take the suggested courses for the minor as part of approved and free electives. See the listing of College of Agriculture minors for details.

Prior to entering the program, students are encouraged to consult a counselor for guidance in scheduling courses. Those students interested in entering the School of Veterinary Medicine must take BIOL 1201 and 1208, 1502 and 1509, 2051, 2083; CHEM 2261, 2262, 2364 or CHEM 2060; MATH 1021 and 1022; PHYS 2001 and 2002; and CMST 2010 or 2060 to meet admission requirements.

Graduates of the animal, dairy, and poultry sciences curriculum find career opportunities in a variety of production and animal-related agribusinesses, such as commercial livestock, dairy, and poultry enterprises; feed, pharmaceutical, and supply companies; commodity processing and food product industries; and various state and federal agencies including the cooperative extension service. Students selecting the science-directed electives are prepared to enter graduate school.

CURRICULUM IN ANIMAL, DAIRY, AND POULTRY SCIENCES

TOTAL SEM. HRS. • 134

*The number of credit hours in each group in the junior and senior years depends on the area of concentration. The total for each year must equal that specified in the curriculum.

FRESHMAN YEAR • SEM. HRS.
Animal Science 1011, or Dairy Science 1048, or Poultry Science 1049 • 3
Biological Sciences 1001, 1002, 1005, or Biological Sciences 1201, 1208, 1502, 1509 • 8
Chemistry 1201, 1202, 1212 • 8
English 1000/1001, 1002 • 6
Mathematics 1021; 1022 or 1431 • 6
General education arts course • 3

SOPHOMORE YEAR • SEM. HRS.
Dairy Science 2072 or Biological Sciences 2153 • 3-4
Biological Sciences 2051 • 4
Chemistry 2060 or 2261 • 3
Economics 2030 or AGEC 2003 • 3
Experimental Statistics 2201 • 4
Communication studies 2060 • 3
General education humanities courses • 6
General education social sciences course • 3
Area of concentration courses • 3

JUNIOR YEAR • SEM. HRS.
Area of concentration courses* • 10-18
Approved electives* • 6-15
Electives or ROTC* • 3-18

SENIOR YEAR • SEM. HRS.
Area of concentration courses* • 10-18
Approved electives* • 6-15
Electives or ROTC* • 3-18

Areas of Concentration

♦ Dairy Production

Required Courses (24 hrs.)—DARY 2049, 2075, 2085, 3010, 4043, 4045, 4051, 4054, 4118.
Approved Electives (22 hrs.)—Select 22 hrs. from the approved electives list available from the Department of Dairy Science.

♦ Dairy Foods Technology

Required Courses (22 hrs.)—DARY 2075, 2093, 4020, 4040, 4051, 4081; AGEC 4213.
Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list available from the Department of Dairy Science.

♦ Science and Technology

Required Courses (32 hrs.)—Select at least 16 hrs. from courses in ANSC, DARY, or PLSC, and remaining hours from BIOL 3000-4999, CHEM 2000-4999, PHYS 2000-4999, or NS 4000-4999.
Approved Electives (21 hrs.)—Select 21 hrs. from the approved electives list available from the Departments of Animal Sciences or Dairy Science.

♦ Three-Plus-One

Required Courses (38 hrs.)—completion of first year of LSU School of Veterinary Medicine curriculum with a gpa of at least 2.0.
Approved Electives (21 hrs.)—Select from the list of approved electives available in the Departments of Animal Sciences or Dairy Science.

Students entering the School of Veterinary Medicine after completion of the first three years of the animal, dairy, and poultry sciences curriculum (102 hours) may receive the B.S. degree following successful completion of the first year of the professional curriculum in veterinary medicine. (See the School of Veterinary Medicine Bulletin for details of the first year of the professional curriculum.)

Students pursuing this program will be required to establish residence in the College of Agriculture for 30 semester hours prior to entering the School of Veterinary Medicine. They also must make application for the degree through the dean's office in the College of Agriculture no later than 15 days after classes begin in the semester in which the degree is to be awarded.

DEPARTMENT OF ENTOMOLOGY

INTERIM HEAD • Fuxa, Professor
OFFICE • 404 Life Sciences Building
TELEPHONE • 225/578-1634
FAX • 225/578-1643

AUSTIN C. THOMPSON DISTINGUISHED PROFESSOR • Prowell
PROFESSOR EMERITUS • Riley
health insect management. Both concentrations require students to complete an internship where practical experience is gained in agricultural or urban pest management areas.

**CURRICULUM IN PLANT AND SOIL SYSTEMS**

**TOTAL SEM. HRS. • 131-133**

1. For crop management and soil science areas of concentration
2. For horticultural science; ornamental, olerculture, and pomology; and turfgrass management areas of concentration
3. For agricultural pest management area of concentration
4. For urban entomology area of concentration

**FRESHMAN YEAR**

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<td>English 1000/1001, 1002</td>
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<td>Mathematics 1021</td>
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<td>Mathematics 1022 or Experimental Statistics 2201</td>
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<td>General education social sciences course</td>
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**SOPHOMORE YEAR**

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<td>Agricultural Economics 2003 or Economics 2030</td>
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<td>Communication studies 2060</td>
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**JUNIOR YEAR**

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<td>Agronomy 3010 or 3010 or Plant Health/Entomology 3000</td>
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<td>Elicates or ROTC</td>
<td>3</td>
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<tr>
<td></td>
<td>34</td>
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</table>

**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agronomy 4052.1-3 or Entomology 4001</td>
<td>4-3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>12-9</td>
</tr>
<tr>
<td>Approved electives</td>
<td>12-15</td>
</tr>
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<td>3</td>
</tr>
<tr>
<td></td>
<td>29-30</td>
</tr>
</tbody>
</table>

**Areas of Concentration**

- **Urban Entomology**

  **Required Courses (31-32 hrs.)—**

  Dairy Science 2072 or Biological Sciences 2153; Biological Sciences 2051; Entomology 2001; Plant Health/Entomology 3002; Entomology 4005, 4006, 4012; Entomology 4007, 4016, or Entomology/Plant Health 3000; Entomology/Plant Health 4018; Agronomy 4070 or 4071.

  A list of approved electives is available from the Department of Entomology.

**DEPARTMENT OF EXPERIMENTAL STATISTICS**

**HEAD • Moser, Professor**

**OFFICE • 161 Agricultural Administration Building**

**TELEPHONE • 225/578-8303**

**FAX • 225/578-8344**

**PROFESSORS • Blouin, Escobar, Geaghan, Koonce, Leflotte, Marx, Moser**

**ASSOCIATE PROFESSOR • Monleuz**

**ASSISTANT PROFESSOR • Downer**

**INSTRUCTORS • Church, Cox, Swoope**

**ADJUNCT FACULTY • Georgiev, Icaza, Meeker**

**CURRICULUM:**

- No undergraduate program is available. See the Graduate Bulletin for a description of the graduate program.

  The Department of Experimental Statistics offers an undergraduate minor in applied statistics. Students take a 12-hour core of statistical methods and theory courses and an additional six hours chosen from a variety of more specialized courses that would best meet individual academic goals. (See the section “Minor Field Requirements” in this chapter for more information.) A minor in applied statistics provides valuable experience in quantitative applications that enhance employment opportunities in a variety of fields as well as preparation for graduate study. Students interested in pursuing a minor in applied statistics are encouraged to declare and contact the department as early in the academic programs as possible.

  The Master of Applied Statistics, offered by this department, is designed to acquaint graduate students with the techniques of statistical methods and their application to various fields of specialization. For additional information concerning this program, consult the Graduate Bulletin.

**DEPARTMENT OF FOOD SCIENCE**

**HEAD • Moody, Professor**

**OFFICE • 111 Food Science Building**

**TELEPHONE • 225/578-5206**

**FAX • 225/578-5300**

**PROFESSORS EMERITI • Cross, Grodner, Liuizzo, Meyers, Mullins**

**PROFESSORS • Bankston, Day, Godber, Hegsted, Moody, Rao**

**ASSOCIATE PROFESSORS • Farr, Prinyawiwatkul**

**ASSISTANT PROFESSORS • Ariyana, Bell, Janes, King, Lloaso, Trappey**

**ADJUNCT FACULTY • Andrews, Champagne, Cotty, Diack, Grimm, Hwang, Kampen, Kilgen, Kim, Lima, Marshall, McMillin, Porter, Shih, Supan, Thune, Tulley, Walker, Wan, Wilson, York**

**CURRICULUM COORDINATOR • King, Assistant Professor**

**OFFICE • 111 Food Science Building**

**TELEPHONE • 225/578-5157**

**CURRICULUM:**

- Food Science & Technology
FOOD SCIENCE & TECHNOLOGY

The curriculum in Food Science and Technology, following guidelines obtained from the Institute of Food Technologists, provides students a common core of courses. These courses provide a strong basic foundation for the study of post-production processing of food products. By selecting from one of four areas of concentration - Food Safety and Applied Microbiology, Food Processing and Technology, Food Chemistry and Analysis, or Food Business and Marketing, students can target a program of study suited to their specific needs and interests. Through our elective course, Food Science Research, FDSC 3900, students can gain hands-on experience in research or product development. Optional summer internships with food companies are also available. Students will be prepared to enter into several different career paths in the food industry or to pursue graduate study.

Food scientists use basic principles and knowledge of chemistry, microbiology, engineering and business to research, develop, process, evaluate, package, and distribute foods. Food scientists are responsible for the safety, taste, acceptability, and nutrition of processed foods. They develop new food products and process technology for manufacturing foods. Food scientists may concentrate on basic research, product development, processing and quality assurance, packaging, or market research. Food scientists work in food or food ingredient processing plants where raw foods are converted into beverages; cereals; canned foods; desserts and candy; dairy products; meats, poultry, fish and seafood products; fruit and vegetable products; snacks and convenience foods; and animal foods.

Food scientists in basic research conduct investigations into the physical, chemical, and biological makeup of foods. They study the changes that occur in the food products during processing and storage. Food scientists are also active in biotechnology and may work with plant breeding and microbial fermentation products for further processing. Food scientists in applied research work on product development. They create new food products with longer shelf life such as frozen concentrated orange juice, freeze-dried coffee, dehydrated soups and eggs, precooked sausages, granola bars, and juices in juice boxes. Food scientists also work with marketing people to test public acceptance of new products and prepare nutritional labels found on food packages. In processing plants, food scientists prepare specifications and schedules for production operations. Food scientists in quality assurance ensure that foods in every stage of processing meet government standards through microbiological and shelf-life testing.

The Food Safety and Applied Microbiology area of concentration enhances students' knowledge in the critical area of quality control and government regulation of food manufacturing. Food microbiology has become an important part of food biotechnology in producing healthy bioprocessed foods and ingredients. Students pursuing this concentration will be prepared for careers in applied microbiology, quality control or regulatory fields. The Food Processing and Technology area of concentration provides students background knowledge in processing plant supervision, product development and food engineering. The Food Chemistry and Analysis area of concentration prepares students for careers in food quality assurance and technical services. Food chemistry is one of the most important aspects of food quality and analytical capabilities are essential for proper food quality assurance. The Food Business/Marketing area of concentration prepares students for careers in the food business, technical sales and food product development systems.

CURRICULUM IN FOOD SCIENCE & TECHNOLOGY

TOTAL SEM. HRS. • 128

FRESHMAN YEAR SEM. HRS.
Biological Sciences 1201, 1208, 1202, and 1209 8
Chemistry 1201, 1202, 1212 8
English 1001, 1002 6
Mathematics 1022 and 1441 6
General education arts course 3
Electives or ROTC 3 34

Sophomore Year SEM. HRS.
Biological Sciences 2051, 2083 7
Chemistry 2060 3
Economics 2030 3
English 3002 3
Human Ecology 2010 3
Physics 2001 3
Area or minor requirements 3-6 6-3 31
Electives 29

Junior Year SEM. HRS.
Experimental Statistics 2201 4
Food Science 4005, 4060, 4075, 4162 14
Area requirements 7-9
Electives 4-2 29

Senior Year SEM. HRS.
Food Science 4040, 4050, 4070, 4076 13
Food Science 3999 1
General education humanities course 9
general education social sciences course 3
Area requirements 3-4
Electives 5-4 34

Areas of Concentration

♦ Food Business/Marketing

Required Courses (18 hrs.)—choose from either 1): ACCT 2001, 2101; FIN 3715; MGT 3200; ECON 2035; MKT 3401; or 2): ACCT 2001; AGEC 1003, 3203 or 3213, 3413, 4403; MKT 3401.

♦ Food Chemistry/Analytical

Required Courses (17 hrs.)—Chem 2085; FDSC 3000, 4095; HORT 4096.
fruits and vegetables. Floriculture is the cultivation and management of cut flowers and flowering and foliage plants. Careers in floriculture include floral design and marketing, interior landscaping, and the production of cut flowers and potted plants for distribution to florists, garden centers, landscape maintenance firms, arboreta, botanical gardens, and tissue culture propagation laboratories. Landscape horticulture involves the design and construction of landscape sites, as well as planting and maintenance of woody and herbaceous plants, turfgrass, ornamental bulbs, and related crops. Career opportunities in floriculture and pomology include jobs as field representatives and farm consultants, food processors, agricultural chemical suppliers, and produce brokers.

Students electing the horticultural science area of concentration are prepared to pursue graduate studies in horticulture and related sciences. Horticulturists conduct research in areas such as crop culture and management; molecular biology; plant breeding and genetics; plant growth and development; plant metabolism and nutrition; propagation; post harvest and stress physiology; and tissue culture. Horticulturists teach at every level, including high schools, community colleges, and universities. Public service in horticultural extension includes advising home gardeners, professional horticulturists, and horticultural crop producers.

Students selecting the turfgrass management area of concentration are prepared as landscape designers and managers; sports field managers; golf course superintendents; or professionals employed by the urban agricultural products industry. In addition to the basic core courses in the curriculum, students study turf and ornamental management, pest identification and control, pesticide application techniques, landscape design, and small engine maintenance. Twelve hours of business electives provide additional experience in financial and personnel management.

**CURRICULUM IN PLANT AND SOIL SYSTEMS**

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.</th>
<th>131-133</th>
</tr>
</thead>
</table>

1. For crop management and soil science areas of concentration
2. For horticultural science; ornamental, olericulture, and pomology; and turfgrass management areas of concentration
3. For agricultural pest management area of concentration
4. For urban entomology area of concentration

### FRESHMEN YEAR

<table>
<thead>
<tr>
<th>COURSE CODE</th>
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<tbody>
<tr>
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<tr>
<td>Communication studies 2060</td>
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<td>General education humanities course</td>
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<td>Area of concentration courses</td>
<td>12-13</td>
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### JUNIOR YEAR

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<th>COURSE CODE</th>
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<tbody>
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<td>Biology 3207, 3208</td>
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<tr>
<td>Agriculture 2001, 2002</td>
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<tr>
<td>Agronomy 3010 or 3011</td>
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<tr>
<td>Horticulture 3000 or 3010*</td>
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<tr>
<td>Plant Health/Entomology 3001 or 3010*</td>
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### SENIOR YEAR

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<th>COURSE CODE</th>
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<tbody>
<tr>
<td>Agronomy 4052 or Entomology</td>
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<tr>
<td>Area of concentration courses</td>
<td>10-9</td>
</tr>
<tr>
<td>Approved electives</td>
<td>12-15</td>
</tr>
<tr>
<td>Electives or ROTC</td>
<td>3</td>
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</tbody>
</table>

### A list of approved electives is available in the Department of Horticulture.

- **Horticultural Science (33 hrs.)**
  - Dairy Science 2072; Biological Sciences 2083
  - Entomology 2001; Experimental Statistics 2201 or 4001; Horticulture 2050, 2061, 2076, 3012, 4096; Horticulture 4012.

- **Ornamental, Olericulture, and Pomology (31 hrs.)**
  - Entomology 2001; Horticulture 2050, 2061, 2076, 3012, 3015, 4071, 4086; Landscape Architecture 2121; Agronomy 4070.

- **Turfgrass Management (32 hrs.)**
  - Entomology 2001, 4012; Horticulture 2050, 2061, 2076, 3012, 3015, 4086, 4090; Landscape Architecture 2121; Agronomy 4070.

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>COURSE CODE</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
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<td>3</td>
</tr>
<tr>
<td>Communication studies 2060</td>
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<td>Area of concentration courses</td>
<td>12-13</td>
</tr>
<tr>
<td>Approved electives</td>
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### CURRICULUM:

- Plant and Soil Systems (Agricultural Pest Management Area)

### PLANT AND SOIL SYSTEMS

The curriculum in plant and soil systems consolidates the curricula for the Departments of Agronomy, Entomology, Horticulture, and Plant Pathology & Crop Physiology. Students in this curriculum take core courses that provide a basic knowledge required for specialization in one of the seven areas of concentration: agricultural pest management, crop management, horticultural science, ornamental, olericulture and pomology, soil science, turfgrass management, and urban entomology. Each area is further individualized by the addition of approved and free electives.

Students interested in pursuing a minor in agricultural pest management, agronomy, entomology, or horticulture may take suggested courses for the minor as part of the approved and free electives. (See the section on “Minor Field Requirements” in this chapter for details.)

The Department of Plant Pathology & Crop Physiology and the Department of Entomology offer an area of concentration in agricultural pest management and the Department of Entomology offers an additional area of concentration in urban entomology. The agricultural pest management concentration is an interdisciplinary program of study in weed science, plant pathology, and entomology. Effective management of pest problems in agriculture requires a broad base of knowledge in the pest disciplines and practical field experience. The agricultural pest management concentration features a strong core of courses in the three pest management disciplines; a strong background in agriculture, biological and physical sciences; and practical training through an internship work experience. The urban entomology concentration is well suited for students who are interested in urban pest control, mosquito control, public health insect management, and forensic entomology for criminal justice.

In both concentrations, a range of restricted and unrestricted electives allows students to personalize their degree program for employment with agricultural industries such as chemical, seed, or biotechnology companies; state and federal research; extension, and regulatory agencies; private agricultural consulting firms; farmer cooperatives; nurseries, home, and garden centers; golf courses; greenhouse plant production; corporate farms; urban pest control; public health insect management; and forensic entomology. Both concentrations require students to complete an internship providing practical experience agricultural or urban pest management areas.

### CURRICULUM IN PLANT AND SOIL SYSTEMS

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.</th>
<th>131-133</th>
</tr>
</thead>
</table>

1. For crop management and soil science areas of concentration
2. For horticultural science; ornamental, olericulture, and pomology; and turfgrass management areas of concentration

#### DEPARTMENT OF PLANT PATHOLOGY & CROP PHYSIOLOGY

**INTERIM HEAD:** Hoy, Professor

**OFFICE:** 302 Life Sciences Building

**PHONE:** 225/578-1464

**FAX:** 225/578-1415

**PROFESSORS:** Berggren, Clark, Cohn, Damann, Holcomb, Hollier, Hoy, Jones, McGawley, Murai, Overstreet, Rush, Schneider, Valverde, Whilam

**ADJUNCT FACULTY:** Black, Bond, Croughan, Dyer, Groth, Linscombe

**CURRICULUM COORDINATOR:** Hoy, Professor

**OFFICE:** 302 Life Sciences Building

**PHONE:** 225/578-1464
Areas of Concentration

Agricultural Pest Management

Required Courses (30-32 hrs)—Dairy Science 2072 or Biological Sciences 2153; Biological Sciences 4041 or 4055; Plant Health/Entomology 3002; Plant Health 4001, 4070, 4071; Entomology 2001, 4006; Entomology 4001, 4012; Entomology/Plant Health 4018; Plant Health/Entomology 3000, Plant Health 4014 (select two).

PREVETERINARY MEDICINE

CURRICULUM COORDINATOR • French, Professor
OFFICE • 136 Dalrymple Building
TELEPHONE • 225/578-5440

Students seeking a career in veterinary medicine must be prepared to complete a minimum of six years of college education, including two or more years in the pre-veterinary curriculum. Preprofessional requirements may be completed at LSU or at any accredited college or university offering courses of the content and quality prescribed in this catalog. Students desiring to enter the pre-veterinary medicine curriculum should contact the dean of the College of Agriculture prior to initial registration to ensure proper enrollment in required courses.

Some students find it advantageous to start their preprofessional training the summer after high school graduation. Currently, all colleges of veterinary medicine in the U.S. have more qualified applicants than can be admitted. Because it will not be possible to admit all eligible applicants, students who have completed 75 hours of course work and who are not admitted to the professional program will be required to 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. The deadline for submission of the application and related materials is in October of the year prior to which admission is desired. October 1 is the deadline for all students. Admission to the professional program of the school will be granted only for the fall semester and only on a full-time basis. Class size will be limited.

Scholastic achievement will be measured by performance in the required preprofessional courses. Students must have a grade-point average of at least 2.50 (“A” = 4) in required courses for consideration for admission. A grade of less than “C” in a required course is unacceptable. All preprofessional requirements for the LSU program in veterinary medicine must be completed by the end of the spring semester of the calendar year for which application is made.

The Graduate Record Examination (GRE) or the Medical College Aptitude Test (MCAT) scores must be submitted no later than December 15th preceding the year in which admission is sought. Applicants who do not submit standardized test scores by this date will not be considered for acceptance. 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.

Three-Plus-One Program

Students entering the School of Veterinary Medicine following completion of the first three years of the animal, dairy, and poultry sciences curricula (120 hours) may receive the B.S. degree following successful completion of the first year of the professional curriculum in veterinary medicine. (See the School of Veterinary Medicine Bulletin.)
### CURRICULUM IN DIETETICS

**TOTAL SEM. HRS. • 128**

This curriculum is currently accredited as a Didactic Program in Dietetics (DPD) by the Commission on Accreditation/Approval for Dietetics Education (CADE) of the American Dietetic Association (ADA), a specialized accrediting body recognized by the Council on Post-secondary Accreditation and the U.S. Department of Education. Students who complete this curriculum with a GPA of 3.00 or better in all human ecology courses (HUEC), including at least four 3000- to 4000-level courses taken in residence, will receive a DPD Verification Statement that allows the student to apply for an ADA preprofessional practice program.

- By successfully completing a preprofessional practice program, graduates of this degree program are qualified to take the registry examination to become a registered dietitian. Dietitians provide expertise in nutrition and food service management in a variety of settings, including public and private schools, universities, hospitals, clinics, care centers, the armed services, research laboratories, commercial and industrial establishments, and local, state, and federal health programs.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Biological Sciences 1011, 1012</td>
<td>4</td>
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<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
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<tr>
<td>English 1000/1001, 1002</td>
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<table>
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<th>Junior Year</th>
<th>SEM. HRS.</th>
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<tbody>
<tr>
<td>Human Ecology 1000</td>
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<tr>
<td>Mathematics 1021, 1022 or 1023, 1431</td>
<td>6-8</td>
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<tr>
<td>Communication studies 2060</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>2-0</td>
</tr>
<tr>
<td>TOTAL SEM. HRS. • 128</td>
<td></td>
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</tbody>
</table>

### CURRICULUM IN FAMILY, CHILD, AND CONSUMER SCIENCES

- Students completing this curriculum are eligible to apply for positions in government or the private sector relating to administration and management of family services programs, management of family resources and consumer economics. Employment opportunities exist in business, cooperative extension, education, programs for the elderly, consumer agencies, media, and federal, state, and local government.

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>Anthropology 1003</td>
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<tr>
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<tr>
<td>English 1002 or 1003 or 1005</td>
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<tr>
<td>Human Ecology 1000, 2010</td>
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<tr>
<td>Mathematics 1021</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1022, 1100, or 1431</td>
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</tr>
<tr>
<td>Biological Sciences 1001</td>
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<td>Approved general education art course</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL SEM. HRS. • 128</td>
<td></td>
</tr>
</tbody>
</table>

### Areas of Concentration

- **Human Services Management**
  - Required Courses (31 hrs.): EXED 4025, 4026, or VED 4504; EXST 2201 or SOCIL 2201; HUEC 3053, 4051, 4064; MGT 3200; POLI 2070 or 2051; PSYC 4072; SOCIL 4511; SOCL 3501 or 3501, or SW 3002 or 3007.

- **Consumer Science**
  - Required Courses (27-28 hrs.): ACCT 2000# or 2001#; ISDS 2000, # EXST 2201#, or SOCIL 2201; ECON 2035# or approved elective; ACCT 2101# or approved elective; MKT 3401# and 3411; FIN 3715,# MGT 3211, EXST 3001, or FIN 3200 or 3201; MGT 3200,# POLI 2051 or 2070.

### CURRICULUM IN TEXTILES, APPAREL, AND MERCHANDISING

**TOTAL SEM. HRS. • 128**

To prepare students for future professional careers in the textile and apparel industries, which are interconnected and global in nature, this curriculum provides an integrated, multi-functional academic experience. Students focus on the design, development, and marketing of textile and apparel products and are encouraged to develop a broad-based problem-solving perspective through synthesis of concepts, course work, and work experiences. Students concentrate on a component of the textile/apparel industry complex by selecting textile science, apparel design and production, or merchandising as a program area.

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Human Ecology 3055, 3070</td>
<td>7</td>
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<tr>
<td>Human Ecology 3060, 3061, and 3062</td>
<td>9</td>
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<td>Area of concentration courses</td>
<td>12-15</td>
</tr>
<tr>
<td>Electives</td>
<td>6-3</td>
</tr>
<tr>
<td>TOTAL SEM. HRS. • 128</td>
<td></td>
</tr>
</tbody>
</table>

**Senior Year**

| Electives | 6 |
| Electives | 9 |
| Area of concentration courses | 30 |

**Areas of Concentration**

- **Human Services Management**
  - Required Courses (31 hrs.): EXED 4025, 4026, or VED 4504; EXST 2201 or SOCIL 2201; HUEC 3053, 4051, 4064; MGT 3200; POLI 2070 or 2051; PSYC 4072; SOCIL 4511; SOCL 3501 or 3501, or SW 3002 or 3007.

- **Consumer Science**
  - Required Courses (27-28 hrs.): ACCT 2000# or 2001#; ISDS 2000, # EXST 2201#, or SOCIL 2201; ECON 2035# or approved elective; ACCT 2101# or approved elective; MKT 3401# and 3411; FIN 3715,# MGT 3211, EXST 3001, or FIN 3200 or 3201; MGT 3200,# POLI 2051 or 2070.

Students in HSMGT and CNSUMR may select any course listed in the general education arts elective.

See the School of Human Ecology for further information.
apparel manufacturers, retailers, testing laboratories, government agencies, media firms, or they may open their own businesses.

FRESHMAN YEAR  SEM. HRS.
Human Ecology 1000  3
English 1000/1001, 1002  6
Mathematics 1021  3
General education social sciences course  3
Area of concentration course  3
Art 1001, or 1011, or 1441, or 1440, or 2401, or 2411, or 2470  3
Mathematics 102* or 1201, 1202*  6
General education natural sciences sequence or CHEM 1201, or 1202*  6
General education natural sciences course or CHEM 1212*  2
Electives  3-2
35

SOPHOMORE YEAR  SEM. HRS.
Accounting 2000 or 2001 or Economics 1550*  3-5
Mathematics 1550*  3
Human Ecology 2032, 2037  8
Human Ecology 2040, 2041  4
Human Ecology 2045  3
General education humanities course  3
Area of concentration course  3
Communication studies 2061 or English 2002 or 3002*  3
Electives  2-0
32

JUNIOR YEAR  SEM. HRS.
Communication studies 2060  3
General education humanities course  3
Area of concentration courses  9
Human Ecology 3032, 3034, 3041, 3045  12
Management 3200  3
Marketing 3401  3
33

SENIOR YEAR  SEM. HRS.
Area of concentration courses  8-14
Human Ecology 4030, 4034, 4045  9
Electives  11-5
28

Areas of Concentration

- Textile Science (22 hrs.)

Required Courses—MATH 1552; CHEM 2001, 2002, 2261; PHYS 2001 or 2101; HUEC 4043, 4047; EXST 4001

- Apparel Design (23 hrs.)

Required Courses—ART 1847, 1848; HUEC 3037, 3230, 3232, 4037, 4047 or 4070.

- Merchandising (18 hrs.)

Required Courses—HUEC 3043, 4041 or 4043, 4046, 4047, 4070; MGT 3320 or PSYC 3050; MC 2020 or MKT 3427.

OTHER PROGRAMS

Early Childhood Education: PK-3 Teacher Certification

The College of Education in collaboration with the School of Human Ecology offers a degree program in early childhood education: PK-3 teacher certification. Students earn a bachelor of science degree from the College of Education. Students must be admitted to the College of Education and follow the admission and degree requirements established by the college.

CURRICULUM IN EARLY CHILDHOOD EDUCATION: PK-3 TEACHER CERTIFICATION

TOTAL SEM. HRS. • 125-127

FRESHMAN YEAR  SEM. HRS.
Biological Sciences 1001  3
EDCI 1000  3
English 1001 or 1004 and ENGL 1002 or 1003 or 1005  6
Geography 1001 or 1003  3
Geology 1001  3
Human Ecology 1000  3
Mathematics 1021 or 1023 or 1029 and 1100  6-8
Select 3 hrs. from ART 1001 or 1011 or 1440 or 2470 or Music 1751 or 1752 or 1755 or 1799 or 2000  3
Select 3 hrs. from biological sciences 1002 or geology 1003  3
33-35

SOPHOMORE YEAR  SEM. HRS.
EDCI 2030, 2081, 2700  7
ELRC 2507  3
Six hrs. chosen from English courses on the general education humanities list  6
History 2055 or 2057  3
Human Ecology 2065, 2083  6
Mathematics 1201 and 1202 or 2203  6
Political Science 2051  3
34

JUNIOR YEAR  SEM. HRS.
EDCI 3000  3
Human Ecology 3055, 3056  7
PROFESSIONAL PRACTICE BLOCK I: PK/K Human Ecology 3381, 3382, 3383  9
PROFESSIONAL PRACTICE BLOCK II: Grades 1-3 EDCI 3481, 3482, 3483  9
PROFESSIONAL PRACTICE BLOCK III: PK/K Human Ecology 3381, 3382, 3383  15
PROFESSIONAL PRACTICE BLOCK IV: Grades 1-3 EDCI 4481, 4482  15
30

SENIOR YEAR  SEM. HRS.
PROFESSIONAL PRACTICE BLOCK III: PK/K Human Ecology 3381, 3382, 3383  15
PROFESSIONAL PRACTICE BLOCK IV: Grades 1-3 EDCI 4481, 4482  15
28

SCHOOL OF RENEWABLE NATURAL RESOURCES

DIRECTOR • Blackmon, Professor
OFFICE • 227 Forestry-Wildlife-Fisheries Building
TELEPHONE • 225/578-4131
FAX • 225/578-4227
E-MAIL • bblack7@lsu.edu

F. O. BATEMAN DISTINGUISHED PROFESSOR OF NATURAL RESOURCES • Kelesio
WEAVER BROTHERS ENDOWED PROFESSORSHIP FOR EXCELLENCE IN FORESTRY • Chambers

PROFESSORS EMERITI • Avault, Burns, Carpenter, Carter, Chabreck, Culley, Fogg, Hansbrough, Linnartz, Noble
PROFESSORS • Blackmon, Cao, Chambers, Chang, Johnson, Kelso, Riegh, Romaine, Rutherford, Shilling, Smith, Tiersch, Vlosky, Wright

ASSOCIATE PROFESSORS • de Hoop, Dean, Dunn, Liu, Lockhart, Reed, Rohwer, Shupe, Stone, Wu
ASSISTANT PROFESSORS • Chamberlain, Dozier, Nyman, Xu

ADJUNCT FACULTY • Afton, Barrow, Bryan, Glason, Goyer, Hamilton, Herke, Hse, Jenkins, Jones, LaPeyre, Lutz, Ouchley, Pace, Reams, Siegel, Supan, Sword

UNDERGRADUATE CURRICULUM COORDINATOR • Shilling, Professor
OFFICE • 210 Forestry/Wildlife Building
TELEPHONE • 225/578-4192

GRADUATE COORDINATOR • Rutherford, Professor
OFFICE • 210 Forestry/Wildlife/Fisheries Building
TELEPHONE • 225/578-4187

CURRICULA:
- Forestry (Forest Management)
- Wildlife and Fisheries

The School of Renewable Natural Resources offers undergraduate and graduate education to students who wish to discover the natural world and ways to improve the management of renewable resources, protect biodiversity, and promote conservation of diverse ecosystems. Two undergraduate curricula are available that provide students with professional education in forestry or in wildlife and fisheries.

The curriculum in forestry and the curriculum in wildlife and fisheries consist of a set of core courses taken by all students in the School of Renewable Natural Resources to assure the broad understanding of natural resource ecology, sustainability, policy, and management. The forestry curriculum and the wildlife and fisheries curriculum both have a set of required courses specific to each degree program. There is considerable flexibility within each degree program because there are areas of concentration that target specialities, yet allow individual flexibility in course selection. Problem-based learning and multidisciplinary team activities are used to put students in “real-world” situations with present-day problems that will better prepare students for successful careers. Critical thinking skills are stressed in a broad-based curriculum. To assure the quality of graduates, all students in undergraduate programs in forestry or wildlife and fisheries must earn a grade of “C” or better in all required RNR courses.

Bachelor of Science in Forestry

The bachelor of science in forestry (B.S.F.) is aimed at providing a broad education in renewable natural resources specifically related to forest ecosystems. The B.S.F. is accredited by the Society of American Foresters (SAF). SAF is the accrediting body for the B.S.F.
recognized by the Commission on Recognition of Postsecondary Accreditation as the accrediting agency for forestry in the U.S. The B.S.F. degree program is flexible and allows students, in consultation with faculty, to select an area of concentration closely associated with their career goals in renewable natural resources. The three areas of concentration include forest resource management, ecological restoration, and forest products.

The forest resource management area of concentration is intended for students primarily interested in managing forests as a sustainable natural resource. The area of concentration is designed to provide students with an appreciation of numerous aspects of forest resource management including timber and non-timber resources and prepare them for employment with public and private entities in forest resource management.

The ecological restoration area of concentration provides the foundation for students planning a career in environmental and ecological consulting, ecological restoration, or remediation work. Development mitigation is on the rise, as is the desire to restore systems disturbed and disrupted by anthropogenic and natural causes. Knowledge of plant and animal taxonomy, nomenclature, identification systems, and wetlands delineation are currently in demand by environmental consulting/engineering firms.

The forest products area of concentration is intended for those students that are planning a career related to forest products or preparing for an advanced degree in wood science, manufacturing, business, or industrial applications. This area of concentration provides a background in basic wood and wood products properties, efficient processing techniques, and business and industrial applications.

**Bachelor of Science in Wildlife and Fisheries**

This degree program strives to teach students about the ecology and natural history of plant and animal populations and communities to enable enhanced management and conservation of biotic resources. Students get broad-based training in identification, natural history, population ecology, conservation biology, and policy issues that will affect living natural resources. The curriculum is designed to prepare students for careers as professionals in a broad range of natural resource management positions.

Students in wildlife and fisheries tailor their course work to their career goals by choosing one of six areas of concentration: aquaculture, conservation biology, fisheries, wetland science, wildlife ecology, and wildlife law enforcement.

Job opportunities for graduates of the wildlife and fisheries curriculum occur in state and federal agencies, non-governmental conservation organizations, private consulting, and with industry. Students pursuing the bachelor of science degree in wildlife and fisheries typically complete the educational requirements for gainful employment to be certified by the Wildlife Society or the American Fisheries Society.

The aquaculture area of concentration is designed for students interested in technologies and management systems used to cultivate commercially and recreationally important aquatic species. Students are trained in breeding and genetic improvement, nutrition and feed formulation, water quality and aquatic plant management, production systems, aquacultural engineering, disease prevention and control, and sport fish management. Students are prepared to work for industry, and state and federal agencies, or to pursue advanced degrees in the aquatic sciences.

The conservation biology area of concentration is designed to educate students in the ways to protect biodiversity. This includes a broad base of training in ecology, taxonomy, the genetics of small populations, human dimension of resource management, and the principles of population biology.

The fisheries area of concentration was created to expose students to general ecological and socioeconomic principles that relate to the management of aquatic resources. Students take classes in fisheries management, fish and invertebrate ecology and taxonomy, water quality, and the relationships between habitat quality and production of fishes in marine and freshwater systems. The concentration focuses on training students for graduate study in fisheries and aquatic science, and is intended to prepare students for employment with aquatic management and assessment agencies, consulting firms, and private resource groups.

The area of concentration in Wetland Science was designed for students who wish to specialize in wetlands, which are valued as wildlife and fish habitat, for maintaining water quality, and for economic benefits. Students who concentrate in wetland science can anticipate working for private or governmental agencies that manage land, for governmental agencies that restore and/or regulate wetlands or for businesses that delineate wetlands, plan and manage mitigation banks, or plan and construct restoration projects.

The wildlife ecology area of concentration is tailored to students interested in traditional management that focuses on wildlife populations, especially game animals and charismatic species, to the public. Students are exposed to the principles of population growth, theory and practice concerning population exploitation, habitat requirements and methods of management, and the ways that public policy influences wildlife resources. Students from this area of concentration typically accept jobs with state and federal agencies, but often pursue advanced degrees.

The wildlife law enforcement area of concentration was recently created to meet the needs of students who want to enter into natural resources law enforcement with state or federal agencies. Students get a background in wildlife ecology and management, natural resources policy, as well as course work in political and social sciences. Students must still go through state or federal law enforcement academy before they can work in wildlife law enforcement.

Transportation for field trips is provided by the University but financed by the students. Field fees vary in amount, based on the cost of transportation, and are paid at the time of other University fees through the Advanced Billing System.

**CURRICULUM IN FORESTRY (FOREST MANAGEMENT)**

**TOTAL SEM. HRS. • 128**

All students in the undergraduate curriculum in Forestry must earn a grade of “C” or better in all required RNR courses.

**FRESHMAN YEAR**

| SEM. HRS. | Biological Sciences 1201, 1208 and 1202, 1209 | 8 |
| | Chemistry 1201, 1202, 1212 | 8 |
| | English 1000/1001, 1002 | 6 |
| | Mathematics 1021 | 3 |
| | Renewable Natural Resources 1001 and 1002 | 4 |
| | General education arts course | 3 |
| | | 32 |

**SOPHOMORE YEAR**

| SEM. HRS. | Economics 2030 or Agricultural Economics 2003 | 3 |
| | Communication studies 2060 | 3 |
| | Experimental Statistics 2201 | 4 |
| | Mathematics 1431 | 3 |
| | Philosophy 2020 | 3 |
| | Renewable Natural Resources 2001 and 2101 | 6 |
| | General education social sciences | 3 |
| | Area of concentration courses | 3-4 |
| | Electives | 3 |
| | | 31-32 |

**JUNIOR YEAR**

| SEM. HRS. | Renewable Natural Resources 3002, 3004, 3102 | 10 |
| | Area of concentration courses | 5-10 |
| | Approved electives | 12-6 |
| | General education humanities course | 3 |
| | Electives | 3-4 |
| | | 33 |

**SENIOR YEAR**

| SEM. HRS. | Renewable Natural Resources 4039, 4101 | 7 |
| | Area of concentration courses | 8-14 |
| | Approved electives | 12-6 |
| | Electives | 5-4 |
| | | 32-31 |

**Areas of Concentration**

A list of approved electives is available from the school.

- Ecological Restoration
- Forest Products
- Forest Resources Management

**Required Courses (18 hrs.)—AGRO 2051; RNR 2061, 3034, 3036, 3037, 3040, 3041, 3105, 4032.**

- Forest Products

**Required Courses (16 hrs.)—RNR 2043, 4038, 4104, 4042; PHSC 1001.**

- Forest Resources Management

**Required Courses (28 hrs.)—AGRO 2051; ENTM 4018; RNR 2043, 3034, 3036, 3037, 3040, 3041, 3105, 4036, 4038.**
## CURRICULUM IN WILDLIFE AND FISHERIES

All students in the undergraduate curriculum in Wildlife and Fisheries must earn a grade of "C" or better in all required RNR courses.

### TOTAL SEM. HRS. • 128

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences 1201 and 1208</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 1201, 1202, and 1212</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics 1012 and 1022</td>
<td>6</td>
</tr>
<tr>
<td>Renewable Natural Resources 1001 and 1002</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>32</strong></td>
</tr>
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</table>

#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
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</thead>
<tbody>
<tr>
<td>Biological Sciences 1202 and 1209</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 2001 or 2001 or Physics 2001</td>
<td>3</td>
</tr>
<tr>
<td>Communication studies 2060</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030 or AGEC 2003</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1431 or 1441</td>
<td>3</td>
</tr>
<tr>
<td>Renewable Natural Resources 2101</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>General education sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>6</td>
</tr>
<tr>
<td>Approved electives</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>32</strong></td>
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</table>

#### JUNIOR YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Sciences 2153 or 3040</td>
<td>4</td>
</tr>
<tr>
<td>and 3041</td>
<td>4</td>
</tr>
<tr>
<td>English 3002 or 3002 or RNR 4002</td>
<td>3</td>
</tr>
<tr>
<td>Experimental Statistics 2201</td>
<td>4</td>
</tr>
<tr>
<td>Renewable Natural Resources 3004</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities courses</td>
<td>6</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>9</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>Biological Sciences 4020, 4041, or 4055</td>
<td>3-4</td>
</tr>
<tr>
<td>Renewable Natural Resources 4039</td>
<td>3</td>
</tr>
<tr>
<td>Renewable Natural Resources 4101</td>
<td>4</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Area of concentration courses</td>
<td>8-16</td>
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<tr>
<td>Approved electives</td>
<td>11-2</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>32</strong></td>
</tr>
</tbody>
</table>

*Students in the fisheries or wetland science area of concentration must take Chemistry 2060 or 2261.

**Students in the wildlife law enforcement area of concentration must take SOCL 2001.

***A list of approved electives is available at the College of Agriculture or the School of Renewable Natural Resources.

****Students in the wetland science area of concentration must take Biological Sciences 4020.

### Areas of Concentration

#### Aquaculture

**Required Courses** (21-22 hrs.)—RNR 2002, 4022, 4025, 4105, and 4106; select either (3-4 hrs.)—RNR 4037 or 4145; select either (3 hrs.)—AGEC 1003 or 3303.

#### Conservation Biology

**Required Courses** (26-27 hrs.)—AGEC 3503; ENTM 4015; RNR 2031, 3018, 4103, and 4107; select one course (4 hrs.) from the following—BIOL 4141, 4142, or 4146; select either (3-4 hrs.)—RNR 4037 or 4145.

#### Fisheries

**Required Courses** (24 hrs.)—RNR 2002, 4023, 4025, 4037, 4040, 4106, 4107, and 4145.

#### Three-Plus-One

**Required Courses**—BIOL 2051, 2083, or CHEM 2262, 2364; RNR 2001; PHYS 2001, 2002 and RNR 2031 and 4051. The required first-year veterinary medicine courses (39 hrs. used as approved electives) will fulfill the B.S. degree requirement.

Students preparing to enter the School of Veterinary Medicine are invited to enroll in the “three-plus-one” program managed jointly by the School of Renewable Natural Resources and the School of Veterinary Medicine. In this program, students spend three years in the wildlife-veterinary medicine area of concentration, after which they are eligible to apply for admission to the School of Veterinary Medicine.

Students entering the LSU School of Veterinary Medicine after completion of the first three years of wildlife and fisheries curriculum (96 hrs.) may receive the B.S. degree following successful completion of the first year of the professional curriculum in veterinary medicine. (See the School of Veterinary Medicine Bulletin for details of the first year of the professional curriculum.)

#### Wetland Science

**Required Courses** (27-28 hrs.)—AGRO 2051; OCS 4165 and 4166; RNR 2001, 2031, 4011, 4033, and ENVS/RNR 4900 or RNR 4151.

#### Wildlife Ecology

**Required Courses** (26 hrs.)—RNR 2001, 2031, 3005, 4011, 4051; ENTM 4015; select two courses (6 hrs.)—BIOL 4141, 4142, 4146, or RNR 3018.

#### Wildlife Law Enforcement

**Required courses** (25 hrs.)—RNR 2031, 3018, 4011, and 4107; POLI 2051; select two courses (6 hrs.) from the following—SOCL 3371, 3501, 4461, or 4471; select one course (3 hrs.) from the following—POLI 4015, 4020, 4021, 4022, or 4023.

### CURRICULUM COORDINATOR

- **Holmes, Associate Professor**
- **Office**: 142 Old Forestry Building
- **Telephone**: 225/578-2464

### CURRICULUM:

- **Vocational Education**
  - The curriculum in vocational education is offered with areas of concentration in adult education, extension, and international education; agricultural education; business education; career development; home economics education; industrial education; and training and development. Master's and doctoral programs are also available. For additional information, see the Graduate Bulletin or contact the School of Human Resource Education & Workforce Development.
  - The State Board for Vocational Education has designated LSU as a teacher education center for the preparation of vocational teachers, making LSU eligible for Federal funds under the National Vocational Education Acts.
  - The School of Human Resource Education & Workforce Development is accredited by the National Council for Accreditation of Teacher Education and is a member of the University Council for Workforce and Human Resource Education, a national consortium of leading research universities.

### Admission to the School

**General Students**

- Students are eligible for admission to the school in accordance with admission and retention requirements prescribed by the College of Agriculture.

**Students Seeking Teacher Certification**

- The teacher education program in vocational education is administered jointly by the Colleges of Agriculture and Education. Students are admitted to programs leading to certification in adult education, agricultural education, business education, home economics education, industrial education, and vocational trade and industrial education according to the following:
  - Students from other LSU senior colleges who have completed a minimum of 24 semester hours with a 2.20 grade-point average on all work taken are considered for provisional admission to the vocational teacher education program. For regular admission, students must have a 2.50 cumulative grade-point average and appropriate
scores on the PRAXIS Examinations. Regular admission is required prior to enrollment in any 4000-level vocational education course.

- **Transfer students** from accredited colleges and universities who have met the entrance requirements of the University, who are eligible for admission to a senior college, and who meet the requirements listed above will be considered for admission to the teacher education program.

- **Students on University scholastic and attendance probation** will not be admitted to a teacher education program.

**Requirements for Teacher Certification**

- Regular admission into a vocational teacher education program.
- Attainment of senior standing in the college with an 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 the teaching field, regardless of institution(s) attended.
- Proficiency in English.
- Completion of all methods courses.
- Students also may complete standard certification requirements in adult education and vocational trade and industrial education. In addition, students may complete course work appropriate for the state alternative certification program.

- Students interested in any program leading to teacher certification should contact the School of Human Resource Education & Workforce Development for application information, deadlines, and specific details about each program. Students interested in a teacher certification program other than those included here should contact the College of Education.

### Public Management Program

**HEAD • Naquin**
**OFFICE • 201 Old Forestry Building**
**TELEPHONE • 225/578-6645**
**FAX • 225/578-6473**

Through its comprehensive program of training, services, and research, this program 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 office also develops and publishes manuals on various governmental procedures, such as personnel administration, management, organizational development, and job evaluation and salary. These services are provided statewide by institute staff and university professors.

The program has been designated as the sponsoring agency for two training and educational programs authorized by the 1979 Louisiana Legislature. The Comprehensive Public Training Program is designed to increase the skills and knowledge of all state employees and nonelective officials. The Certified Public Manager Program (CPM) 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.

### CURRICULUM IN VOCATIONAL EDUCATION

**Students completing this curriculum are prepared for a wide range of employment options including adult education, continuing education, training and development in business and industry; human resource development; teacher certification at the secondary level; and certification in postsecondary vocational trade and industrial education.**

- The curriculum offers the student an opportunity to select either of two paths:
  - General Student Path (noncertification)
  - Teacher Certification Path

- Students following either path will develop a 50-hour technical core in consultation with a faculty adviser.

- Students interested in the study of training and development/human resource development should apply for the general student path. A special program of courses is available to prepare students for training and development careers in business, industry, and government. Students graduating from this program typically pursue careers in training and development, human resource development, training administration and consulting, classroom instruction, management development, career development, and technical training.

- While sharing some courses with the adult education emphasis, this program emphasizes the application of education methodologies in the workplace and the unique needs of business, industry, and government.

- This path includes study in principles of adult education, principles of training and development, instructional design methodologies, training delivery, administration of training programs, educational psychology, and workplace learning. Emphasis is placed on developing training professionals who have a variety of methodologies and skills to be able to respond to the diverse needs of the modern workplace. Students are also expected to develop a content specialization outside the training core as part of their program of study.

- The path includes sufficient flexibility for students to tailor the program to fit their career objectives. Students interested in this area should contact the school prior to admission.

- The path Louisiana teacher certification path, prepares a student for certification in one of the previously mentioned areas of concentration. Although most of these graduates enter the teaching profession, experience has demonstrated that people who hold a state teaching certificate find employment in a wide variety of related professions.

- Courses marked with asterisks (*) are required for students who anticipate applying for teacher certification.

### TOTAL SEM. HRS. • 135

#### FRESHMAN YEAR  SEM. HRS.
- English 1000/1001, 1002 ................................. 6
- Mathematics 1021, and any general education analytical reasoning course ...................................... 6
- General education natural sciences sequence .................. 6
- Technical core courses ....................................... 12
- Electives or ROTC, Kinesiology* ............................. 3

#### JUNIOR YEAR  SEM. HRS.
- General education arts course .............................. 3
- General education humanities course, English* ............. 3
- General education natural sciences course ................... 3
- Experimental Statistics or approved computer related course ......................................................... 3
- Vocational Education 2001* .................................. 3
- Technical core courses ................................. 12
- Electives, Curriculum & Instruction .................... 1316*; natural sciences course* ............................. 6

#### SENIOR YEAR  SEM. HRS.
- General education social sciences course .................. 3
- General education humanities speech course ................ 3
- Vocational Education 4809 or 4200* ......................... 3
- Vocational Education 4301* .................................. 3
- Technical core courses, Vocational Education 4102* ..... 12
- Vocational Education 4801*, 4802* and 4803* .............. 9

#### AREAS OF CONCENTRATION

- **Adult, Extension, and International Education**

**Technical Core Courses—50 hrs.**:
- 19 hours of approved courses chosen from EXED 4010, 4025, 4026; HEED 4464, 4869; VED 3602, 4105, 4601, 4704, 4705, 4809; 12 hours, including six hours from HUEC/SW and six hours from PSYC/SOCL chosen from HUEC 1010, 2010, 2014, 2065, 3012, 3016, 3053, 3055, 4050; SW 3012, 3003, 3007, 3008, 4005; PSYC 2000, 2040; SOCL 1001, 2001, 2351, 2501, 4551, 4701; 19 hours chosen from courses above or from agronomy, biological sciences, environmental studies, foreign languages, geography, horticulture, mass communication, kinesiology, political science, or communication studies.

The concentration in adult education prepares students for traditional, nontraditional, and nonformal educational careers in agencies and educational institutions. The focus is on teaching individuals to teach learners how to learn, on the transfer and application of learning, and on preparation for careers and vocations.

Extension and international education emphasizes work with youths/adults in organized and nonformal community settings. Courses focus on needs assessment, program design, presentation techniques, evaluation,
and development of educational materials. A block of 50 technical hours to suit a student’s specific goals, and an internship provide practical work experience in the chosen specialty.

♦ Agricultural Education

This concentration prepares students for teaching agricultural education in secondary schools, for working in agricultural business, and for serving as county extension agents. Course work is provided in various areas of agriculture, including plant and animal sciences and agricultural economics.

Professional education is offered through courses in methods and techniques for training youth and adults.

Students complete a 50-hour technical core. Using an approved list of technical core courses, students develop a plan of study in consultation with a faculty adviser.

Students who anticipate entering the teacher certification program should inform the faculty adviser at the time the undergraduate program of study is being developed.

♦ Business Education

The business education concentration prepares students to become professionals in supervisory, management, and support personnel positions in modern office environments. Knowledge and skills are acquired in general office systems, information processing, computing, and communications. In addition, skills such as problem solving, decision making, and human relations are emphasized.

Career opportunities may be found in business, industry, education, and governmental agencies. Students complete a 50-hour technical core in business education, which may include course work in keyboarding, accounting, communications, management, marketing, finance, economics, shorthand, word processing, and data processing.

Using an approved list of technical core courses, students develop an individualized degree plan in consultation with a business education adviser. Students are encouraged to enroll in courses for certification in computer literacy (two core hours) and cooperative office education (six hours, plus a minimum of 1,500 hours of work experience in the business field).

Teaching minors in limited business education subjects also are offered. Business education advisers should be consulted for details.

♦ Career Development

Technical Core Courses—50 hours:

19 hours chosen from BUED 2071; EXED 4025; INED 3602, 4849; VED 3602, 4301, 4704, 4705, 4890; 12 hours which must include three hours from economics, three hours from management, and six hours from psychology/sociology chosen from ECON 2035, 4020, 4140, 4210, 4220, 4230; MGT 3200, 3320, 3500, 4322, 4620; PSYC 2000, 3050; SOCL 2001, 2351, 4331, 4511, 4521; 19 hours chosen from courses above or from ELRC 4360, 4365, 4600, 4601; GEOG 1001, 1003, 2062; HUEC 4050; CMST 2010; SW 3008, 4005.

The focus in career development is on goals of individuals and organizations and how each effectively meets the needs of the other. Through career planning, management, and development, the individual is given direction and purpose while present and future needs of the organization are also met.

Career development specialists help assess personal competencies and goals; identify, plan, and implement career actions; give counsel concerning the appropriate preparation for a given occupation; and explore career opportunities.

Students complete a block of 50 technical hours based on their specific career goals; and an internship provides practical work experience in an organization.

♦ Home Economics Education

The home economics education concentration is designed to prepare individuals for employment opportunities in formal and informal educational institutions or in related educational pursuits in business, industry, the Cooperative Extension Service, and governmental agencies. Home economics education includes:

- Broad-based studies of topics including textiles and apparel; human food and nutrition; family relationships; child development; housing equipment and furnishings; resource management and consumer economics.
- Professional education with early and continuing field experiences in areas of educational and adolescent psychology; presentation skills; instructional techniques; management of the learning environment; principles of vocational education; and a professional internship.

Louisiana teacher certification is granted in one or both of the following areas:

- Vocational home economics, focused on helping people improve the quality of life; and
- Occupational home economics, focused on developing skills and knowledge for employment in service areas related to food, child care, housing, and institutional management. Certification in occupational home economics requires work experience and a specific program of study. An ancillary certification is available for those holding related degrees. Students who anticipate applying for entry into teacher certification should inform the faculty adviser so that appropriate technical requirements can be included in the degree plan.

A degree plan consisting of a 50-hour core will be developed from an approved list of technical courses related to home economics.

♦ Industrial Education

The concentration in industrial education provides students with the training, supervision, and administrative development needed for service in industry and education; provides professional preparation and certification for vocational-technical teachers; and develops the skills of elementary and secondary school teachers in this area.

Students complete a 50-hour technical core. Using an approved list of technical core courses, students develop a plan of study in consultation with a faculty adviser.

Students who anticipate entering the teacher certification program should inform the faculty adviser at the time the undergraduate program of study is being developed.

♦ Training and Development

Technical Core Courses—50 hours:

Required courses (seven hrs.): EXST 2201; MGT 4620; 19 hours chosen from INED 3062, 4849, 4809; VED 3602, 4809; and three hrs. from ELRC 4365; CMST 2010, 2061, 2061, 2061, 2064; 21 hrs. of approved electives from business education; educational leadership, research, and counseling; industrial education, communication studies, and vocational education. The instructional path includes at least nine hrs. chosen from BUED 2071, 4252; ELRC 4501, 4507; INED 3055; CMST 2010, 2061, 4104, 4119, 4160; VED 3055, 4464, 4601, 4704; non-instructional path to include 15 hrs. from BUED 2071; ELRC 4501, 4507; INED 3055; MC 3000, 3030; MKT 3401, 3421; SOC 4311, 4411; VED 3601, 4464, 4704, 4705.

This concentration prepares students for human resource training and careers in business, industry, government, and military. Courses will focus on transferring knowledge about current theories and research into practical applications. Graduates will be prepared for careers in training and development, human resource development, training administration, classroom instruction, training consulting, management development, technical training, and career development. Those interested in teaching may emphasize an instructional path, while others may choose a noninstructional path, such as program design or administration and management. The concentration emphasizes the application of education methodologies in the work place, as well as the unique needs of business, industry, and government. Strong emphasis is placed on using educational strategies to achieve organizational goals. There will be involvement with professional practitioners of training and career development and practical field experiences. This concentration includes study of the principles of training and development, instructional design methodologies, needs assessment, evaluation methods, administration of training programs, and work place learning.