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 plant, animal, and aquatic life: and its communities and people. The state’s land and water resources; plant, animal, and aquatic life: and its communities and people.

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strengthen instruction through a constantly changing complex of hundreds of research projects throughout the state that are coordinated with the teaching program. Similarly, research, teaching, and extension activities in foreign countries 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. Research and teaching with poultry are conducted at a modern state-of-the-art facility. Totally enclosed tunnel-ventilated houses are designed to conduct research with broilers, layers, and broiler-breeders.
ADMISSION REQUIREMENTS

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

- Entering freshmen who meet the University admissions standards and have a declared major within the College of Agriculture will be admitted to the College of Agriculture.
- Any student from another academic unit on the LSU campus will be admitted to the College of Agriculture if he/she had a minimum 2.00 grade-point average (2.20 if an education certification program) on all LSU work and on all college work. In addition, the student must have a "C" or better in MATH 1021 and ENGL 1002 (1005 for international students).
- Transfer students from institutions who wish to declare a major within the College of Agriculture must meet University admissions standards and have a grade of “C” or better in both MATH 1021 and ENGL 1002.
- 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>
<th>CORE COURSE</th>
<th>HOURS OF CREDIT</th>
<th>LSU COURSE EQUIVALENT</th>
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<tbody>
<tr>
<td>Agriculture (Animal)</td>
<td>3</td>
<td>Animal Science 1011 or Dairy Science 1048 or Poultry Science 1049</td>
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</tr>
<tr>
<td>Agriculture (Plant)</td>
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<td>Horticulture 2050 or Agronomy 1051 or 2051</td>
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<tr>
<td>Agriculture (Electives)</td>
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<td>Any 1000- or 2000-level agricultural course</td>
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<tr>
<td>Art</td>
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</tr>
<tr>
<td>Biological Sciences</td>
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<td>Biological Sciences 1201, 1208, 1402, 1502, 1509</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>History</td>
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<td>History 1001 or 1003 or 2001 or 2002 or 2011 or 2012 or 2021 or 2022 or 2055 or 2057</td>
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</tr>
<tr>
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<tr>
<td>Mathematics</td>
<td>6</td>
<td>Mathematics 1021;* 1022 or 1431</td>
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<tr>
<td>Social Sciences Electives</td>
<td>3</td>
<td>See general education requirements in this catalog.</td>
<td></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.*
Agriculture must complete:

- Business, students in the College of Business Administration.

- Credit earned in courses offered by the College of Business Administration may not consist of more than 27 hours of degree credit.

- The last 30 semester hours of the degree program must be taken in residence in the entire college record.

DEGREE REQUIREMENTS OF THE COLLEGE

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

- Students must complete their curricula at least 2.0 grade-point average on all work taken not resulting in grades of "P," "W," or "I." Students must have a 2.0 average on work taken at this University, as well as a 2.0 average on the entire college record.

- Students must be readmitted only with the approval of the department/school and the dean of the College of Agriculture.

- Students who have completed terms of scholastic suspension from the University may apply for readmission through the Office of Undergraduate Admissions. They may be readmitted only with the approval of the head of the appropriate department/school and the dean of the College of Agriculture. Readmission is not guaranteed.

MINOR FIELD REQUIREMENTS (OPTIONAL)

Students in the College of Agriculture are not required to pursue a minor. They may choose to do so by following the guidelines outlined below.

- A minor is the student's field of secondary academic emphasis. A minor consists of a minimum of 18 hours of related course work designed to provide breadth and depth in a student's undergraduate program.

- At least nine hours must be taken at the 3000 and/or 4000 level on this campus.

- A minimum gpa of 2.00 is required in the minor field on all work taken in the LSU System and on all work taken.

- Minors inside the College of Agriculture must be initiated by the department or school administering the majority of the courses constituting the minor. When submitting a minor for approval, the department or school should specify whether their students may elect that minor.

- All minors must be approved by the college committee on courses and curricula.

The degree program of a student outside the College of Business Administration may not consist of more than 27 hours of degree credit earned in courses offered by the College of Business Administration.

Agricultural Business

To graduate with a minor in agricultural business, students in the College of Agriculture must complete:

- AGEC 1003, 3213, 3413, 4403; and EXST 2201.

- at least six credit hours of approved electives chosen from AGEC 2003, 3003, 3803, 4203, 4213, 4413, 4433, 4453, 4603, 4613; ACCT 2001, 2021, 2101; ECON 2030, 2035, 4120, 4440, 4520, 4540, 4550, 4720; BLAW 3200, 3201, FIN 3351, 3440, 3636, 3715; MGT 3200, 3220, 3500, 4202, 4223, 4620; MKT 3401, 3427, 3431, 3441, 4423; and MATH 1431.

- Students interested in pursuing the M.S. in agricultural economics should elect MATH 1431 and ECON 4720.

- The minor in agricultural business is not available to students majoring in agricultural business.

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 3001, 4005, 4006, 4012; ENTM/PLHL 4018, PLHL 4001, AGRO 4071. Of the eight elective hours at least one course must be from entomology.

Agriculture for Students in Mass Communication

To graduate with a minor in agriculture, students must complete 18 hours. A minimum of nine hours must be at the 3000 and 4000 level:

- AGEC 2003, HUEC 2010, AGRO 1051, HUEC 3061.

- Six hours from any course (3000/4000 level) within the College of Agriculture. This minor is open only to mass communication students.

Agronomy

To graduate with a minor in agronomy, students in this college must complete 18 hours. A minimum of nine hours must be at the 3000 and 4000 level:

- AGEC 2003, 3003, 3803, 4203, 4213, 4413, 4433, 4453, 4603, 4613; ACCT 2001, 2021, 2101; ECON 2030, 2035, 4120, 4440, 4520, 4540, 4550, 4720; BLAW 3200, 3201, FIN 3351, 3440, 3636, 3715; MGT 3200, 3220, 3500, 4202, 4223, 4620; MKT 3401, 3427, 3431, 3441, 4423; and MATH 1431.

- Students interested in pursuing the M.S. in agricultural economics should elect MATH 1431 and ECON 4720.

- The minor in agricultural business is not available to students majoring in agricultural business.

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 2215, 4012, and 4087.

Aquaculture

To graduate with a minor in aquaculture, students must complete the following required courses (10 hrs.)—RNR 4022, 4025, and 4105; fisheries and aquaculture—at least 6 hours 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.

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, 4011, 4012, 4015, 4016, 4018, 4099, 4100, and 4199.

Environmental Management Systems

To graduate with a minor in environmental management systems, students must complete 18 hours consisting of EMS 1011, 3040, and 3050, and eight hours chosen from EMS 3045, 4010, 4020, 4055 or 4056. Note: some courses require prerequisites (see the section "Courses of Instruction" in this catalog or consult the instructor).

Fisheries

To graduate with a minor in fisheries, 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, 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 2010; (2) HUEC/FDSC 3014; (3) HUEC/FDSC 3015; (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, 4020, 4011, 4014, 4023; PLSC 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 area 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, 2045, 4041 or 4071 or 4072; and nine additional hours chosen from HUEC 3030, 3032, 3034, 4043, 4044. 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. hours: HRE 2001, 3055, 3062, 3201, 4301; 6 hours from HRE 4004, 4011, 4504, 4704, 4705; 3 sem. hours 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, BIOL 4041 or 4055; (4) Animal Taxonomy—one course selected from the following: RNR 3018, 4145 or BIOL 4141, 4142, 4146. This minor is not available to students majoring in the wildlife area of concentration in the natural resource ecology and management 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 students 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 maintains nearly 300 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 mission of Phi Kappa Phi is to recognize and promote academic excellence in all fields of higher education and to engage the community of scholars in service to others. 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 7.5 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
The Master of Agriculture degree program is an interdisciplinary, non-thesis graduate program. The interdisciplinary nature of the program should be particularly attractive to non-traditional students from the public and private sectors seeking professional development or employment as agricultural professionals. The program should be attractive to those same individuals who do not require a significant level of specialization in a research-oriented program. The program requires a minimum of 36 hours of degree credit and includes the completion of a special project. All of the 13 academic units within the college along with the faculty in each may participate as well as some faculty in other colleges or schools. Students must choose a primary and secondary area of study. This program is designed for the student who is seeking further professional development in a non-research oriented graduate program.
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
Membership into the Agricultural Student Association (ASA) is open to 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.

**PREVETERINARY MEDICINE**

The preveterinary program involves three or more years of training—at least 66 semester hours—prior to application to the LSU School of Veterinary Medicine. Students interested in attending veterinary school can pursue a degree program in one of two areas listed below and enter the LSU School of Veterinary Medicine after completion of the first three years of the chosen curriculum. The preveterinary program will allow you to pursue an undergraduate degree in any of the following areas: animal, dairy, and poultry science and renewable natural resources. After successful completion of the first year of work at the LSU School of Veterinary Medicine, you will be awarded a bachelor of science degree in your chosen undergraduate field of study. You will then complete the remainder of the professional curriculum in veterinary science required for a Doctorate of Veterinary Medicine.

**PREMEDICINE AND PREDENTAL**

The College of Agriculture at LSU provides unique opportunities that prepare today’s students to enter careers in medicine, dentistry, and allied health fields. Programs within the Departments of Animal Sciences, Biological Engineering, Dairy Science, and the School of Human Ecology offer appealing options for students; however, students in the College’s ten departments and three schools can fulfill premedical or predental course requirements while pursuing a major in an area that matches their own career interest. The College of Agriculture not only provides students with an exceptional academic basis for professional careers in medicine or dentistry, but also enhances their education with communication, leadership skills, and opportunities in community service and research. Alumni of these programs have been accepted at prestigious medical schools such as Columbia, Emory, Johns Hopkins, Rice, and the LSU Health Sciences Centers in New Orleans and Shreveport.

**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 any 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

**DEPARTMENT OF AGRICULTURAL ECONOMICS AND AGribusiness DR. WILLIAM H. ALEXANDER ENDOWED PROFESSOR • P. Kennedy**

**WARNER L. BRUNER PROFESSOR OF AGRICULTURAL ECONOMICS AND AGribusiness • Vandeveer**

**J. NELSON FAIRBANKS ENDOWED PROFESSOR • Salassi**

**DAVID J. KRISKOVICE DISTINGUISHED PROFESSOR • Singelmann**

**MARTIN D. WOODIN ENDOWED PROFESSOR • Schupp**

**PROFESSORS EMERITI** • Cory, Guedry, Harper, Hudson, Law, Traylor, Wiegmann, Woodin

**PROFESSORS** • Cramer, Dooley, Giesler, Hinson, Johnson, P. Kennedy, Paxton, Salassi, Schupp, Singelmann, Vandeveer, Wegenhoff, Zapata

**ASSOCIATE PROFESSORS** • Caffey, Dunn, Gauthier, Gillespie, Guidry, Harrison, Henning, Kazmierczak, Tootle

**ASSISTANT PROFESSORS** • Fannin, Paudel, Schafer, Westra

**CURRICULUM COORDINATOR** • Gillespie, Associate Professor  
**OFFICE** • 279 Agricultural Administration Building  
**TELEPHONE** • 225/578-2759

**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 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 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. • 121**

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**

<table>
<thead>
<tr>
<th>SEM. HRS.</th>
<th>COURSES</th>
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<td>Agricultural Economics 1003</td>
</tr>
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<td>Biological Sciences 1001, 1002</td>
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<td>Chemistry 1001</td>
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<tr>
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<td>Electives or ROTC</td>
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<td><strong>TOTAL</strong></td>
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**SOPHOMORE YEAR**

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**SENIOR YEAR**

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<tbody>
<tr>
<td>15</td>
<td>Agricultural Economics 4203, 4273, 4403, 4433, 4603</td>
</tr>
<tr>
<td>3</td>
<td>General education humanities course</td>
</tr>
<tr>
<td>6</td>
<td>Area of concentration courses/approved AGEC electives</td>
</tr>
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<td>6</td>
<td>Area of concentration courses/electives</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**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, 3352, 3353, 3355 or (2) Investment—FIN 3440, 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 4613 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 & ENVIRONMENTAL MANAGEMENT

HEAD • Martin, Professor
OFFICE • 104 Sturgis Hall
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A. GEORGE AND MILDRED G. CALDWELL ENDOWED PROFESSOR OF AGRONOMY • Selim
WALKER T. NOLIN ENDOWED PROFESSOR OF AGRONOMY • Harrison
LEE F. MASON LSU ALUMNI ASSOCIATION DEPARTMENTAL PROFESSOR • Griffin
PROFESSORS EMERITI • Caffey, Dunigan, Tipton
PROFESSORS • Board, Breitenbeck, Griffin, Harrison, Harville, Kang, Martin, Oard, Selim, Twidwell
ASSOCIATE PROFESSORS • Gaston, Kennedy, Myers, Webster
ASSISTANT PROFESSORS • Kimbeng, Strahan, Subudhi, Walsh, Wang
INSTRUCTORS • Daigle, Dickson, Henderson, Kongchum, Materne

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

CURRICULUM:
- Plant and soil Systems (Agricultural Pest Management Area; Crop Management Area; Soil Science Area)
- Environmental Management Systems

The Department of Agronomy & Environmental Management offers degree programs in plant and 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 concentrate 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 agronomic 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

Areas of Concentration

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 is available in the Department of Agronomy & Environmental Management.

Soil Science (30-31 hrs.)
Agronomy 4055, 4056, 4058; Biological Sciences 1011 or 2051; Chemistry 2001, 2002; Geology 1001, 1601; Mathematics 1022; Physics 2001, 2108.

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

ENVIRONMENTAL MANAGEMENT SYSTEMS

CURRICULUM COORDINATOR • Breitenbeck, Professor
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TELEPHONE • 225/578-1362

Students in the environmental management systems curriculum receive training in the basic and social 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 conservation 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.

**CURRICULUM IN ENVIRONMENTAL MANAGEMENT SYSTEMS**

<table>
<thead>
<tr>
<th>TOTAL SEM. HRS.</th>
<th>130</th>
</tr>
</thead>
</table>

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 & Environmental Management.

**Areas of Concentration**

- **Environmental Science**

**Required Courses** (30 hrs.)—CHEM 2001, 202; 2262; BIOL 2051; AGRO 4055; select one: OCS 4040 or 4165; select one AGRO 4056, BIOL 3115 or 4110 or 4090; and nine hours of approved electives from a list at the department or college.

- **Policy Analysis**

**Required Courses** (30 hrs.)—ACCT 3233 and 4236; AGRO 4078; ENV S 4101; select one: FIN 3201 or AGEC 3803; select one: ECON 4320 or AGEC 3503; select one: ENVS 4149 or OCS 4465; and ten hours of approved electives from a list at the department or college.

- **Resource Conservation**

**Required Courses** (30 hrs.)—AGEC 3503; AGRO 3400, 4052, and 4078; GEOG 4045 or 4047; ENV S 4101; and select one: OCS 4500 or 4465 or 4466; and ten hours of approved electives from a list at the department or college.

**DEPARTMENT OF ANIMAL SCIENCES**

**HEAD** • Humes, Professor

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**FAX** • 225/578-3270

E-MAIL • phumes@agctr.lsu.edu

**BOYD PROFESSOR** • Godke

**MR. AND MRS. HERMAN E. MCFATTER ENDOWED PROFESSOR** • Bidner

**PROFESSOR EMERITUS** • White

**PROFESSORS** • Bidner, Davis, Depew, Dumas, Fernandez, Franke, Godke, Hansel, Humes, Mcmillin, Page, Satterlee, Southern, Thompson

**ASSOCIATE PROFESSORS** • Bondioli, Ingram

**ASSISTANT PROFESSORS** • Denniston, Lavergne, Rowntree

**INSTRUCTORS** • Dean, Gentry

**ADJUNCT FACULTY** • Derouen, Dresser, Leibo, Miller, Paccamonti, Pope, Sanson, Wyatt

**CURRICULUM COORDINATOR** • Bidner, Professor (Animal Science)

**OFFICE** • 116 Francioni Hall

**TELEPHONE** • 225/578-3437

**ENDOWED PROFESSOR** • Bidner

**SCIENCE** • Franke

**TELEPHONE** • 225/578-3950

**OFFICE** • 118 Ingram Hall

**HEAD** • Ingram, Associate Professor (Poultry Science)

**TELEPHONE** • 225/578-3950

**CURRICULUM:**

- Animal, Dairy, and Poultry Sciences

(Animal Science Area, Poultry Science Area, Science and Technology Area, Preveterinary Medicine Area)

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 are also 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.
PLSC 4040.

PLSC 4031 or FDSC 4005; PLSC 4051 or FDSC 4000, 4040, 4162; and either 4081, 4084, 4086, 4088; or select ANSC 3010, and any two from ANSC 4001, 4002, 4003, 4004, 4005, 4006, 4007.

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.

Area of concentration courses* 3-34

Approved Electives 21 hrs.

Preferred Electives

Science and Technology

Required courses (32 hrs.)—Select at least 16 hours from courses in ANSC, DARY, or PLSC, and 8 hours from courses in BIOL 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009.

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

Preventive Medicine

Required Courses

Approved Electives 21 hrs.

DEPARTMENT OF DAIRY SCIENCE

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FAX • 225/578-3492

H. ROUSE CAFFEE ENDOWED PROFESSOR OF BIOLOGICAL AND AGRICULTURAL ENGINEERING

PROFESSORS EMERITI • Adkinson, Baham, Frye, Gholson, Gough, Roussel, Rusoff

PROFESSORS • Chandler, Hay, Jenny

ASSOCIATE PROFESSORS • Hutchison, Williams

ASSISTANT PROFESSORS • Aryana, Bateman, Boeneke

ADJUNCT FACULTY • Degelos, Lovejoy, McCormick, Nipper, Owens, Samkuti, Ward

CURRICULUM COORDINATOR • Williams, Associate Professor

OFFICE • 102 Dairy Science Building

TELEPHONE • 225/578-4574

CURRICULUM:

Animal, Dairy, and Poultry Sciences (Dairy Production Area, Dairy Foods Technology Area, Science and Technology Area, Preventive Medicine Area)

The Department of Dairy Science, in cooperation with 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**

<table>
<thead>
<tr>
<th>Area of Concentration</th>
<th>SEM. HRS.</th>
</tr>
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<tbody>
<tr>
<td>Animal Science 1011, or Dairy Science 1048, or Poultry Science 1049</td>
<td>3</td>
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<tr>
<td>Biological Sciences 1001, 1002, 1005, or Biological Sciences 1201, 1208, 1502, 1509</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry 1201, 1202, 1212</td>
<td>8</td>
</tr>
<tr>
<td>English 1000/1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics 1021, 1022 or 1431</td>
<td>6</td>
</tr>
<tr>
<td>General education arts course</td>
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<td><strong>TOTAL</strong></td>
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**SOPHOMORE YEAR**

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<th>Area of Concentration</th>
<th>SEM. HRS.</th>
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<tr>
<td>Dairy Science 2072 or Biological Sciences 2153</td>
<td>3-4</td>
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<tr>
<td>Biological Sciences 2051</td>
<td>4</td>
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<tr>
<td>Chemistry 2060 or 2261</td>
<td>3</td>
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<tr>
<td>Economics 2030 or AGEC 2003</td>
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<tr>
<td>Experimental Statistics 2201</td>
<td>4</td>
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<tr>
<td>Communication Studies 2060</td>
<td>3</td>
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<tr>
<td>General education humanities courses</td>
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<td>General education social sciences course</td>
<td>3</td>
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<td><strong>Area of concentration courses</strong></td>
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**JUNIOR YEAR**

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<th>Area of Concentration</th>
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<td>Area of concentration courses*</td>
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<tr>
<td>Approved electives*</td>
<td>6-15</td>
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<tr>
<td>Electives or ROTC*</td>
<td>5-18</td>
</tr>
<tr>
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**SENIOR YEAR**

<table>
<thead>
<tr>
<th>Area of Concentration</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area of concentration courses*</td>
<td>5-17</td>
</tr>
<tr>
<td>Approved electives*</td>
<td>6-15</td>
</tr>
<tr>
<td>Electives or ROTC*</td>
<td>5-16</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>33-34</strong></td>
</tr>
</tbody>
</table>

**Areas of Concentration**

- **Dairy Foods Technology**
  - **Required Courses** (22 hrs.)—DARY 2075, 2085, 2093, 4020, 4040, 4051, 4054, 4118
  - **Approved Electives** (22 hrs.)—Select 22 hours from the approved electives list available from the Department of Dairy Science.

- **Science and Technology**
  - **Required Courses** (32 hrs.)—Select at least 16 hours 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 hours from the approved electives list available from the Departments of Animal Sciences or Dairy Science.

- **Preventive Medicine**
  - **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 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.) 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**

HEAD • Schowalter, Professor
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PROFESSOR EMERITUS • Riley
PROFESSORS • Bagwell, Baldwin, Boethel, Foll, Fuxa, Goyer, Grodner, Hammond, Henderson, Johnson, Leonard, Ottea, Pollet, Prowell, Reagan, Ring, Schowalter, Story
ASSOCIATE PROFESSORS • Carlton, Hooper-Bui, Morgan, Stout
ASSISTANT PROFESSORS • Castro, Huang, Husseneder
ADJUNCT FACULTY • Burris, Danka, Harbo, Harris, Klepzig, Rinderer, White

CORNELLIAN CURRICULUM COORDINATOR • Reagan, Professor
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TELEPHONE • 225/578-1634

**CURRICULUM IN PLANT AND SOIL SYSTEMS**

TOTAL SEM. HRS. • 131-133

**PLANT AND SOIL SYSTEMS**

The curriculum in plant and soil systems consolidates the curricula for the Departments of Agronomy and Environmental Management, 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, oliviculture, 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, and public health insect management.

In both concentrations, a range of restricted and nonrestricted 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; and public health insect management. Both concentrations require students to complete an internship where practical experience is gained in agricultural or urban pest management areas.
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
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EMAIL • head@stat.lsu.edu
WEBSITE • www.stat.lsu.edu

PROFESSORS • Blouin, Escobar, Geaghan, Koonce, Marx, Moser
ASSOCIATE PROFESSORS • Downer, Monlezun
ASSISTANT PROFESSOR • Wang
INSTRUCTORS • Church, Coxe, Swoope

COURICLUM:
• 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 soon as possible.

The Master of Applied Statistics offered by this department is designed to acquaint graduate students with the techniques of applied statistics. Students may concentrate on basic research, technology for manufacturing foods, or food assurance, packaging, or market research. 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 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, 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.

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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.
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 program provides a concentration that 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 safety 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 with the necessary knowledge needed for careers in the food industry. 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 courses 3
Electives or ROTC 3 34

SOPHOMORE YEAR SEM. HRS.
Biological Sciences 2051, 2083 7
Chemistry 2061 3
Economics 2030 3
English 3002 6
Human Ecology 2010 3
Physics 2001 3
Area or minor requirements 3-6
Electives 6-3 31

JUNIOR YEAR SEM. HRS.
Experimental Statistics 2201 4
Food Science 4095, 4060, 4075, 4162 14
Area requirements 7-9
Electives 4-2 29

SENIOR YEAR SEM. HRS.
Food Science 4040, 4050, 4070, 4071 13
Food Science 3999 1
General education humanities courses 9
General education social science courses 3
Area requirements 3-4
Electives 5-4 34

Areas of Concentration

- Food Business and 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 and Analysis
  Required Courses (17 hrs.)—CHEM 2001, 2002; DARY 2085; FDSC 3000, 4095; HORT 4096.

- Food Safety and Applied Microbiology
  Required Courses (14 hrs.)—BIOL 4110; FDSC 3000, 4163; DARY 4020.

DEPARTMENT OF HORTICULTURE

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EMAIL • dlabonte@agctr.lsu.edu
WEBSITE • www.lsu.edu/horticulture

OLA COOK HOLMES ENDOWED PROFESSOR • Wilson
PROFESSORS EMERITI • O'Rourke, Standifer, Young
PROFESSORS • Boudreaux, Cannon, Himmelrick, Johnson, Koske, LaBonte, Motsenbocker, Owings, Picha, Wilson
ASSOCIATE PROFESSORS • Bush, Gill, Kuehny, Pyzner
ASSISTANT PROFESSOR • Lee
INSTRUCTOR • Mirabello, Souvestre

UNDERGRADUATE COORDINATOR • LaBonte, Professor
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EMAIL • diabonte@agctr.lsu.edu

GRADUATE COORDINATOR • Wilson, Professor
OFFICE • 129 J. C. Miller Hall
TELEPHONE • 225/578-1025
EMAIL • pwilson@agctr.lsu.edu

CURRICULUM:
- Plant and Soil Systems (Horticultural Science Area; Ornamental, Oléiculture, and Pomology Area; Turfgrass Management Area)

PLANT AND SOIL SYSTEMS

Consolidation of curricula in agronomy and horticulture resulted in the curriculum in plant and soil systems. All students in this curriculum take core courses that provide a basic knowledge required for specialization in one of five areas: agronomic crops; horticultural science; ornamental, oléiculture, and pomology; soil science; and turfgrass management. Each area is further individualized by the addition of approved electives and free electives.

Students interested in pursuing a minor in agronomy or horticulture may take suggested courses for the minor as part of the approved and free electives. (See the section on College of Agriculture minors for details.)

The three areas of concentration (horticultural science; ornamental, oléiculture, and pomology; and turfgrass management) are designed to prepare students for various career opportunities using a cross-disciplinary studies approach. Prior to entering the program, students are encouraged to consult the curriculum coordinator for guidance in selecting courses.

Students selecting the ornamental, oléiculture, and pomology area of concentration will be prepared for careers in floriculture, nursery crop production, landscape horticulture, and the production and processing of 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 oléiculture and pomology include jobs as field representatives and farm consultants, food processors, agricultural chemical suppliers, and produce brokers.

Students selecting the turgrass management area pursue careers 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

TOTAL SEM. HRS. • 131-133

For crop management and soil science areas of concentration

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

FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course and Department</th>
<th>SEM. HRS.</th>
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<tr>
<td>Area of concentration courses</td>
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**SOPHOMORE YEAR**

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

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<tr>
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<tr>
<td>Horticulture 3002 or 3010 or</td>
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</tr>
<tr>
<td>Plant Health/Entomology 3000</td>
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<tr>
<td>Plant Health 4000</td>
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**SENIOR YEAR**

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<th>Course and Department</th>
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<td>Agronomy 4052 or Entomology 4001</td>
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A list of approved electives is available in the Department of Horticulture.

Areas of Concentration

♦ Horticultural Science (33 hrs.)

♦ Ornamental, Olericulture, and Pomology (35 hrs.)

Entomology 2001; Horticulture 2050, 2061, 2076, 3012, 3015, 4020, 4071, 4086;

Landscape Architecture 2121; Agronomy 4070.

♦ Turfgrass Management (32 hrs.)

Entomology 2001, 4012; Horticulture 2050, 2061, 3012, 3015, 4086, 4090; Landscape Architecture 2121; Agronomy 4070.

DEPARTMENT OF PLANT PATHOLOGY & CROP PHYSIOLOGY

HEAD  •  Berggren, Professor
OFFICE  •  306 Life Sciences Building
TELEPHONE • 225/578-1456
FAX   • 225/578-1415

PROFESSORS  •  Berggren, Clark, Cohn, Damann, Holcomb, Hollier, Hoy, Jones, McGawley, Murai, Overstreet, Rush, Schneider, Valverde, Whitam
ADJUNCT FACULTY  •  Black, Bond, Coughran, Dyer, Groth, Linscombe

CURRICULUM COORDINATOR  •  Damann, Professor
OFFICE  •  302 Life Sciences Building
TELEPHONE • 225/578-1464

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 & Environmental Management, 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, turf grass 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, entomology, or horticulture may take up to 6 hours of approved electives 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 nonrestricted 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 in agricultural or urban pest management areas.

CURRICULUM IN PLANT AND SOIL SYSTEMS

TOTAL SEM. HRS. • 131-133

For crop management and soil science areas of concentration

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

FRESHMAN YEAR

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<tr>
<td>Statistics 2201 or Experimental</td>
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<td>General education arts course</td>
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<td>General education sciences course</td>
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**SOPHOMORE YEAR**

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**JUNIOR YEAR**

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**SENIOR YEAR**

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<td>Total</td>
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**A list of approved electives is available in the Department of Horticulture.**

**Areas of Concentration**

♦ Horticultural Science (33 hrs.)

♦ Ornamental, Olericulture, and Pomology (35 hrs.)

Dairy Science 2072; Biological Sciences 2083; Entomology 2001; Experimental Statistics 2201 or 4001; Horticulture 2050, 2061, 3012, 4012, 4020, 4096.

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

College of Agriculture  97
UNDERGRADUATE CURRICULUM
COORDINATOR • Bourgeois, Instructor
OFFICE • 133 Human Ecology Building
TELEPHONE • 225/578-1728

GRADUATE CURRICULUM
COORDINATOR • Garrison, Associate Professor
OFFICE • 147 Human Ecology Building
TELEPHONE • 225/578-1724

CURRICULA:
• Family, Child, and Consumer Sciences
• Nutritional Sciences
• Textiles, Apparel, and Merchandising

The School of Human Ecology offers undergraduate and graduate programs to prepare students for professional careers in the specialty areas.

The following undergraduate curricula are offered: nutritional sciences (dietetics and nutritional science/premedical concentrations); family, child, and consumer sciences (human services management and consumer sciences concentrations); and textiles, apparel, and merchandising (textile science, apparel design, and merchandising concentrations). Each curriculum provides the student with a concentrated professional sequence in an area of specialization, the necessary supporting courses in basic sciences and/or arts, and a broad general education.

All undergraduate programs are fully accredited by the Council for Professional Development of the American Association of Family and Consumer Sciences. In addition, specialized accreditation is offered by the American Dietetic Association.

Grades are prepared to pursue professional careers in such areas as dietetics, medicine, public health, human services, cooperative extension service, business, education, research, retailing, apparel and textile industries, and international service. Human ecology programs, research, and service focus on the family as a system and the interaction of families and individuals in their near and global environments.

CURRICULUM IN FAMILY, CHILD, AND CONSUMER SCIENCES
TOTAL SEM. HRS. • 124

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, research, retailing, apparel and textile industries, and international service. Human ecology programs, research, and service focus on the family as a system and the interaction of families and individuals in their near and global environments.

FRESHMAN YEAR

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<th>SEM. HRS.</th>
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<td>English 1002 or 1005</td>
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<tr>
<td>Human Ecology 1000</td>
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<td>Mathematics 1021</td>
<td>3</td>
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<tr>
<td>Mathematics 1022, 1100, or 1431</td>
<td>3</td>
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<tr>
<td>Biological Sciences 1000</td>
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Approved general education natural sciences courses

*Six of the nine required natural science courses must include a natural science sequence.

Courses marked with # are a requirement for the consumer science concentration.

Courses marked with + are a requirement for the human services management concentration.

Areas of Concentration

- Human Sciences Management
- Consumer Science

Required Courses (31 hrs.): HUEC 3065, 4051, 4064, 4065; ISDS 1100 or EXST 2000; EXST 2200 or SOCL 2201; PSYC 4072; SOCL 4511; SOCL 3601 or SW 3002; SW 3003; KIN 2000.

CURRICULUM IN NUTRITIONAL SCIENCES

The nutritional sciences curriculum prepares students for careers in the health professions specifically in dietetics or medicine. The dietetics concentration is currently accredited as a Didactic Program in Dietetics (DPD) by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetics Association (ADA), a specialized accrediting body recognized by the U.S. Department of Education and the Council for Higher Education Accreditation (CHEA). Students successfully completing this program will

Required Courses (31 hrs.): ISDS 1100 or EXST 2000; HUEC 2061, 4602; EXST 2201; ACCT 2000 or 2001; ACCT 2101; ECON 2035; MGT 3200; MKT 3401; FIN 3715.

*Approved general education art course

Area of concentration course

Approved general education

Area of concentration course

Economics 2030

Approved general education humanities courses

Communication Studies 2010, 2040

Human Ecology 2065 and 2050

Sociology 2211

Psychology 2000, 2040

Sociology 2001

Political Science 2070 or 2501

Area of concentration course

CLIFF AND NANCY SPANIERT ALUMNI PROFESSOR • Summers

GERALD CIRE AND LENA GRAND WILLIAMS ALUMNI PROFESSOR • Lawrence

G. D. CAIN ENDOVED CHAIR • Martin

DORIS LASSEIGNE AND JULES A. CARVILLE, JR., ENDOVED PROFESSOR IN THE SCHOOL OF HUMAN ECOLOGY • Monroe

DR. ALMA BETH CLARK PROFESSOR IN THE SCHOOL OF HUMAN ECOLOGY • Hegstad

GRACE DREW LEHMANN PROFESSOR • Burts

PROFESSORS EMERITI • Clark, Cross, Draughn, Hildreth, Howat, Kelley, Nolan, Patrick, Younathan

PROFESSORS • Belleau, Burts, Godber, Hegstad, J. Kuttruff, Lawrence, Martin, Monroe, Murphy, Negulescu, Overstreet, Reames, Reichel, Summers, Tulley

ASSOCIATE PROFESSORS • Chen, Garrison, Keenan, O’Neil, Pierce, Rees, Roy, Sasser, Tucker, White

ASSISTANT PROFESSORS • Benedict, Berry, DiCarlo, Guanino, Laird, Marks, Park, Tuuri

INSTRUCTORS • Aghayan, Bourgeois, Cathey, Jones, Marquette, Milioto, Myhand, Rabalais

EXTENSION ASSOCIATES • Skinner, Stanciu

FIELD PROGRAM LEADER • McDade (Northeast Region)

ADJUNCT FACULTY • Buchanan, Byerly, Clarke, DeLany, Getzis, Greenway, C. Kuttruff, Lefevre, Melton, Mynatt, Namwamba, Robeck, Ryan, Smith, Sothen, Ye
receive a verification statement the allows them to apply for a CADE accredited dietetic internship. This internship is required before students are eligible to sit for the registry examination to become a registered dietitian. Registered 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. The nutrition science/pre-medical concentration provides students with a strong grounding in nutrition science while meeting the course work requirements for students planning to apply to medical or dental school. Since nutrition plays a role in many chronic and acute disease processes, understanding of the role of nutrients in the body provides premedic students with a strong basis for building their medical careers.

**TOTAL SEM. HRS. • 128**

### FRESHMAN YEAR SEM. HRS.
- Biological Sciences 1201 ........................................... 3
- Chemistry 1201, 1202 ........................................ 6
- English 1001, 1002 ............................................. 6
- Human Ecology 1000, 1010 ................................. 6
- Mathematics 1021 .............................................. 3
- General education social sciences or Psychology 2000* ........................................ 3
- Area of concentration courses .............................. 5-7
- Electives ................................................................ 2-0

**TOTAL: 34**

### SOPHOMORE YEAR SEM. HRS.
- Chemistry 2261, 2262 ........................................... 6
- Experimental Statistics 2201 ................................ 4
- General education humanities course ................... 3
- Area of concentration requirements ...................... 7-12
- Approved electives ................................................. 3-0

**TOTAL: 31**

### JUNIOR YEAR SEM. HRS.
- Communication Studies 2060 .................................. 3
- English 3002 .................................................... 3
- Human Ecology 3012, 3016 .................................. 7
- Area of concentration requirements ...................... 11-20
- General education social science or ENGL 2030* ........ 3
- Approved electives ................................................. 6-0
- Electives ................................................................ 3-0

**TOTAL: 36**

### SENIOR YEAR SEM. HRS.
- Human Ecology 4010, 4011, 4013, 4014, 4017, 4021 . 12
- Area of concentration requirements ...................... 6-0
- General education arts course ............................... 3
- General education humanities course ..................... 3
- Electives ................................................................ 3-9

**TOTAL: 27**

- Nutrition/Premed majors may take any general education social science elective.
- Dietetics students must elect to take PSYC 2000 for this social science requirement.
- Dietetics students must take either AGEC 2003 or ECON 2030 for this social science requirement.

### Areas of Concentration

#### Dietetics

**Required Courses (29 hrs.):** BOL 1011, 1012, 2083, 2160; HUEC 2021, 2014, 3015, 3019, 3021, 4023; MGT 3200.

#### Nutritional Science/Premedical

**Required Courses (29 hrs.):** BOL 1202, 1208, 1209, 2153, 4087, 4160; CHEM 2121, 2364; MATH 1022, 1550; PHIL 2025; PHYS 2001, 2108, 2002, 2109.

**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. Graduates pursue careers with textile and 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
- Electives ..................................................................... 3

**TOTAL: 18**

**SOPHOMORE YEAR SEM. HRS.**
- Chemistry 1000, 1001, 1440 or 1441, or 2401, or 2411, or 2470 ........................................... 3
- Mathematics 1022, or 1431, or EXST 2201 ................. 3-4
- General education natural sciences courses or CHEM 1201, or 1202* ........................................ 6
- General education natural sciences course or CHEM 1212* ................................................... 2
- Electives .................................................................... 3-2

**TOTAL: 35**

**JUNIOR YEAR SEM. HRS.**
- Accounting 2001 or Mathematics 1550* .................. 3-5
- Economics 2030 ....................................................... 3
- Human Ecology 2040, 2041 ........................................ 4
- Human Ecology 2045 .................................................. 3
- General education humanities course ....................... 3
- Area of concentration courses .................................. 4-8
- Communication Studies 2061 or English 2002 or 3002* ........................................... 3
- Electives ...................................................................... 6-0

**TOTAL: 29**

**SENIOR YEAR SEM. HRS.**
- General education humanities course ....................... 3
- Area of concentration courses ................................ 9
- Human Ecology 3032, 3034, 3045 ............................. 9
- Management 3200 ................................................... 3
- Marketing 3401 ......................................................... 3

**TOTAL: 30**

### 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
- EDCT 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 hours from ART 1001 or 1011 or 1440 or 2470 or Music 1751 or 1752 or 1755 or 1799 or 2000 ........................................... 3

**TOTAL: 27**
SCHOOL OF RENEWABLE NATURAL RESOURCES

DIRECTOR • Blackmon, Professor
OFFICE • 227 Renewable Natural Resources Building
TELEPHONE • 225/578-4131
FAX • 225/578-4192
E-MAIL • bblack7@lsu.edu
WEBSITE • www.rnr.lsu.edu

GRADUATE COORDINATOR • Rutherford, Professor
OFFICE • 227 Renewable Natural Resources Building
TELEPHONE • 225/578-4192

CURRICULA:
• Forestry (Forest Management)
• Natural Resource Ecology and Management

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 natural resource ecology and management.

The curriculum in forestry and the curriculum in natural resource ecology and management 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 natural resource ecology and management curriculum 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 specialties, 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 natural resource ecology and management 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 recognized by the Commission on 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 designed 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 resource values and their management. The degree 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, geographic information systems, and wetlands delineation are currently in demand by environmental consulting/engineering firms.

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

Bachelor of Science in Natural Resource Ecology and Management

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 natural resource ecology and management tailor their course work to their career goals by choosing one of five areas of concentration: conservation biology, fisheries and aquaculture, wetland science, wildlife ecology, and wildlife law enforcement.

Job opportunities for graduates of the natural resource ecology and management curriculum are available in state and federal agencies, non-governmental conservation organizations, private consulting firms, and with industry. Students pursuing the bachelor of science degree in natural resource ecology and management typically complete the educational requirements for graduates to be certified by the Wildlife Society or the American Fisheries Society.

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 and aquaculture area of concentration is designed for students interested in the ecology and management of aquatic resources in freshwater and marine ecosystems, as well as the cultivation of economically important species under...
controlled conditions. Students in this area take a diversity of courses in fish taxonomy, biology, and management, and can tailor their program of study to suit their interests with additional courses in breeding and genetic improvement, nutrition, aquatic and habitat management, and management of freshwater and marine habitats. With numerous opportunities to gain research experience, students in this concentration are well prepared for pursuing graduate studies, as well as a diversity of careers in aquatic resource management in private industry, state and federal agencies, consulting firms, and aquatic resource advocacy 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 habitats, 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 of concern 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 way that public policy influences wildlife resources. Students from this area of concentration typically accept jobs with state and federal resource 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.
Agriculture 1001* .......................... 1
Biological Sciences 1201, 1208 and 1202, 1209 .......................... 8
Chemistry 1201, 1202, 1212 .......................... 8

English 1000/1001, 1002 .......................... 6
Mathematics 1021 .......................... 3
Economics 2003 or Agricultural Economics 2030 .......................... 3
Communication Studies 2060 .......................... 3
Experimental Statistics 2201 .......................... 4
Mathematics 1431 .......................... 3
Philosophy 2020 .......................... 3
Renewable Natural Resources 2001 and 2101 .......................... 6
Renewable Natural Resources 2009 .......................... 3
General education arts course .......................... 3
General education social sciences .......................... 3

JUNIOR YEAR SEM. HRS.
Renewable Natural Resources 2102, 3002, 3004, 3103 .......................... 10
Area of concentration courses .......................... 5-10
Approved electives .......................... 12-6
General education humanities course .......................... 3
Electives .......................... 3-4

SOPHOMORE YEAR SEM. HRS.
Chemistry 1201 and 1202 .......................... 6
Biological Sciences 1208 and 1209 .......................... 2
English 1000/1001 and 1002 .......................... 3
Mathematics 1021 .......................... 3
Renewable Natural Resources 1001 and 1002 .......................... 4
Free electives .......................... 4

FRESHMAN YEAR SEM. HRS.
Agriculture 1001* .......................... 1
Biological Sciences 1201 and 1202 .......................... 6
Chemistry 1201 and 1202 .......................... 6
Biological Sciences 1208 and 1209 .......................... 2
English 1000/1001 and 1002 .......................... 6
Mathematics 1021 .......................... 3
Renewable Natural Resources 1001 and 1002 .......................... 4
Free electives .......................... 4

SOPHOMORE YEAR SEM. HRS.
Communication Studies 2060 .......................... 3
Chemistry 2060* or 2261* or Physics 2031 .......................... 3
Economics 2030 or AGEC 2003 .......................... 3
Experimental Statistics 2201 .......................... 4
General education arts course .......................... 3
Mathematics 1022 or 1431 or 1441 .......................... 3
Renewable Natural Resources 2101 .......................... 3
Philosophy 2020 .......................... 3
Sociology 2001 or Political Science 2051 .......................... 3
Area of concentration courses .......................... 4

JUNIOR YEAR SEM. HRS.
Biological Sciences 2153 or 3040 .......................... 4
Renewable Natural Resources 3004 .......................... 3
Renewable Natural Resources 2001 or 4020 or Biological Sciences 4041* .......................... 3-4
General education humanities course .......................... 3
Agronomy 2051 or Renewable Natural Resources 4025 or 4151 or 4900 .......................... 3-4
Renewable Natural Resources 2102 .......................... 2
Area of concentration courses .......................... 8-6
Free electives .......................... 6

SOPHOMORE YEAR SEM. HRS.
Chemistry 1201 and 1202 .......................... 6
Biological Sciences 1208 and 1209 .......................... 2
English 1000/1001 and 1002 .......................... 6
Mathematics 1021 .......................... 3
Renewable Natural Resources 1001 and 1002 .......................... 4
Free electives .......................... 4

JUNIOR YEAR SEM. HRS.
Renewable Natural Resources 4039, 4101, 4107 .......................... 4
Area of concentration courses .......................... 10-18
Approved electives .......................... 12-6
Electives .......................... 5-4

SENIOR YEAR SEM. HRS.
Philosophy 2020 .......................... 3
Sociology 2001 or Political Science 2051 .......................... 3
Area of concentration courses .......................... 4

RENDEW Natural Resources 4101 .......................... 4
Area of concentration courses .......................... 11-18
Approved electives .......................... 12-6
Electives .......................... 5-4

*Students entering the program with 30 or more semester hours will take one additional hour of approved electives in place of AGRI 1001.

Areas of Concentration

A list of approved electives is available from the school.

Ecological Restoration

Required Courses (18 hrs.)—AGRO 2051; RNR 3034, 3036, 3037, 3040, 3041, 3105, 3108, 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, 4035, 4036, 4038.

CURRICULUM IN NATURAL RESOURCE ECOLOGY AND MANAGEMENT

TOTAL SEM. HRS. • 128

All students in the undergraduate curriculum in Natural Resource Ecology and Management must earn a grade of "C" or better in all required RNR courses.

FRESHMAN YEAR SEM. HRS.
Agriculture 1001* .......................... 1
Biological Sciences 1201, 1208 and 1202, 1209 .......................... 8
Chemistry 1201, 1202, 1212 .......................... 8

English 1000/1001, 1002 .......................... 6
Mathematics 1021 .......................... 3
Economics 2003 or Agricultural Economics 2030 .......................... 3
Communication Studies 2060 .......................... 3
Experimental Statistics 2201 .......................... 4
Mathematics 1431 .......................... 3
Philosophy 2020 .......................... 3
Renewable Natural Resources 2001 and 2101 .......................... 6
Renewable Natural Resources 2009 .......................... 3
General education arts course .......................... 3
General education social sciences .......................... 3

JUNIOR YEAR SEM. HRS.
Renewable Natural Resources 2102, 3002, 3004, 3103 .......................... 10
Area of concentration courses .......................... 5-10
Approved electives .......................... 12-6
General education humanities course .......................... 3
Electives .......................... 3-4

SOPHOMORE YEAR SEM. HRS.
Chemistry 1201 and 1202 .......................... 6
Biological Sciences 1208 and 1209 .......................... 2
English 1000/1001 and 1002 .......................... 6
Mathematics 1021 .......................... 3
Renewable Natural Resources 1001 and 1002 .......................... 4
Free electives .......................... 4

JUNIOR YEAR SEM. HRS.
Biological Sciences 2153 or 3040 .......................... 4
Renewable Natural Resources 3004 .......................... 3
Renewable Natural Resources 2001 or 4020 or Biological Sciences 4041* .......................... 3-4
General education humanities course .......................... 3
Agronomy 2051 or Renewable Natural Resources 4025 or 4151 or 4900 .......................... 3-4
Renewable Natural Resources 2102 .......................... 2
Area of concentration courses .......................... 8-6
Free electives .......................... 6

SENIOR YEAR SEM. HRS.
Renewable Natural Resources 4039, 4101, 4107 .......................... 10
Area of concentration courses .......................... 12-17
Approved electives .......................... 8-3
Free electives .......................... 2

*Students entering the program with 30 or more semester hours will take one additional hour of approved electives in place of Agriculture 1001.

Conservation Biology

Required Courses (27-29 hrs.)—ENTM 4018; RNR 2043, 3034, 3036, 3037, 3040, 3041, 4035, 4036, 4038.
School of Human Resource Education & Workforce Development

Director • Burnett, J. C. Floyd Endowed Professor of Agriculture  
Office • 142 Old Forestry Building  
Telephone • 225/578-8748  
Fax • 225/578-8755

Jones S. Davis Distinguished Professor of Human Resource Education and Workforce Development • Holton  
J. C. Floyd Endowed Professor of Agriculture • Burnett  
Harry S. Sanders, Sr. Endowed Professor of Extension and International Education • Verma  
Professors Emeriti • Gassie, Harrison, McMurtry, Pessin, Smith  
Professors • Burnett, Holton, Kotrilik, Richardson, Verma  
Associate Professors • Bates, Davis, Johnson, Redmann  
Assistant Professors • Machtnes, Naquin

Curriculum Coordinator • Johnson, 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, extension, and international education; agricultural education; business education; career development; home economics education; industrial education; and training and development. Master’s and doctoral programs also are 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 Act.

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 is vocational preparation. 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 teacher preparation 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 preparation program.

  • Students on University scholaristic 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 overall average of 2.50 on all work attempted at LSU, with no grade lower than “C” in professional education courses and in courses required in the teaching field, regardless of institution(s) attended.

• Proficiency in English.

• Completion of all methods courses.

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 • 225/578-8473

The Public Management Program (PMP) serves as the research-to-practice affiliate for the Human Resource Education (HRE) program within the School of Human Resource Education and Workforce Development. Incorporating research-based theory and current best practices, this unit offers a comprehensive array of human resource development activities to the public sector on a state, national, and international level. Specific activities include: training program design and delivery; strategic planning services; performance improvement on an individual, work group, and organizational level; process improvement; performance evaluation; adult literacy...
program development and delivery; curriculum design; program evaluation; organizational development strategies; workplace literacy program development and delivery; career development strategies; succession planning activities; and competency model development and implementation. PMP offers seminars, consultation services, and in-service training programs through traditional classroom instruction as well as state of the art technology-based collaborative learning methodologies. The unit also develops and publishes research quality documents (both internally and through peer review systems) on various governmental and organizational issues. These services are provided by Public Management staff and University professors.

This unit is designated as the sponsoring agency for the Comprehensive Public Training Program (CPTP), a training and educational program authorized by the 1979 Louisiana Legislature. CPTP is designed to increase the skill and knowledge of state employees and non-elected officials. The Certified Public Manager Program (CPM), a nationally recognized and accredited certification program, is open to persons holding a management position within state government or nominated by the supervisor for promotion to such a position. The CPM program includes 300 instructional hours in management and approved elective courses. On completion of the program, participants are awarded the Certified Public Manager (CPM) designation.

**Curriculum in Vocational Education**

Students completing this curriculum are prepared for a wide range of employment options including adult, extension, and continuing education; training and development in business and industry; human resource development; teacher certification at the secondary level; and certification in postsecondary vocational 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, career development, 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 Louisiana teacher certification program 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 other related professions.

**Total Sem. Hrs. • 135**

*Required for Teacher Certification
*Required for Human Resource and Leadership Development and Adult, Extension, International Education Concentration

**Freshman Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000/1001, 1002</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>General education analytical reasoning course</td>
<td>6</td>
</tr>
<tr>
<td>General education natural sciences sequence</td>
<td>6</td>
</tr>
<tr>
<td>Technical core courses</td>
<td>12</td>
</tr>
<tr>
<td>Electives or Kinesiology elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>HRE 2001</td>
<td>3</td>
</tr>
<tr>
<td>General education arts course</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course, English</td>
<td>3</td>
</tr>
<tr>
<td>General education natural sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Experimental Statistics 2000 or approved computer related course</td>
<td>3</td>
</tr>
<tr>
<td>Technical core courses</td>
<td>8</td>
</tr>
<tr>
<td>Electives or Psychology 2060 or 2078, History 2055/2057, Kinesiology 2600 or HRE 3071, and EXST 2201 or SOC 2201 or elective</td>
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</tr>
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</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRE 3201 or 3271</td>
<td>3</td>
</tr>
<tr>
<td>Economics 2030</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities course, English</td>
<td>3</td>
</tr>
<tr>
<td>HRE 4601 or 4603</td>
<td>3</td>
</tr>
<tr>
<td>Technical core courses</td>
<td>18</td>
</tr>
<tr>
<td>Electives, Curriculum &amp; Instruction 3136</td>
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</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM. HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science course or INTL 2001</td>
<td>3</td>
</tr>
<tr>
<td>General education humanities communication Studies course or CMST 2010 or 2060</td>
<td>3</td>
</tr>
<tr>
<td>HRE 4809 or 4200 or 4603</td>
<td>3</td>
</tr>
<tr>
<td>HRE 4301</td>
<td>3</td>
</tr>
<tr>
<td>Technical core courses and HRE 4102</td>
<td>12</td>
</tr>
<tr>
<td>HRE 4801, 4802, and 4803 or HRE 4804</td>
<td>9</td>
</tr>
</tbody>
</table>

**Areas of Concentration**

- Adult, Extension, and International Education

Students must complete the requirements for the educational curriculum as shown in the catalog. For the 50 hours technical courses required in that curriculum, students must complete the following courses: MGT 4620, HRE 3171, PSYC 4032, HRE 4571, HRE 4805 (1 hr.), 3 hours from CMST 2010, 2060, 2061, 2064; 12 hour block of approved adult education specialization courses chosen from either a second 12 hour block of approved specialization courses or 12 hours from a list of electives approved by the faculty; and 7 hrs of general electives.

- 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 (nine 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 HRE 2070, 3602, 4025, 4301, 4704, 4705, 4849; 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 design, 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.

♦ **Human Resource and Leadership Development**

Students must complete the requirements for the vocational education curriculum as shown in the catalog. For the 50 hours of technical courses required in that curriculum, students must complete the following courses: MGT 4620; HRE 4171; HRE 4571; PSYC 4032; HRE 4571; HRE 4805 (1 hr.); 3 hours from CMST 2010, 2060, 2061, 2064; 12 hour block of approved human resource and leadership development courses; choose either a second 12 hour block of approved specialization courses or 12 hrs from a list of electives approved by the faculty; and 7 hrs of general electives.

♦ **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.