College of Applied and Natural Sciences

Officers of Instruction

Dean
Shirley P. Reagan
Assoc. Dean, Graduate Studies & Research
William J. Campbell
Assoc. Dean, Undergraduate Studies
James D. Liberatos

Department of Agricultural Sciences
Gary A. Kennedy, Head

School of Biological Sciences
David K. Mills, Director

School of Forestry
Mark D. Gibson, Interim Director

Department of Health Information Management
Angela Kennedy, Head

School of Human Ecology
Janet F. Pope, Director

Division of Nursing
Pamela V. Moore, Interim Director

Address
More information about the College of Applied and Natural Sciences can be obtained by writing and/or visiting the College’s web site:
College of Applied and Natural Sciences
P. O. Box 10197
Louisiana Tech University
Ruston, LA 71272
(318) 257-4287
http://www.ans.latech.edu

Mission
Through excellence in teaching, research, and service, the College of Applied and Natural Sciences prepares students for careers in agriculture, biological sciences, forestry, health care, and human ecology. Graduates are expected to be committed to life-long learning, to environmental awareness, and to improving their profession and community.

Organization and Curricula
The College of Applied and Natural Sciences was formed in 1996 by the merger of the Colleges of Human Ecology and Life Sciences, colleges with programs that have been a part of Louisiana Tech University since 1896. The college is based on the strong traditions of its parent colleges.

The college is organized into the Division of Nursing, the School of Forestry, the School of Human Ecology, the School of Biological Sciences and the following departments: Agricultural Sciences and Health Information Management.

The following curricula are offered.

Associate of Science
Health Information Technology
Nursing (two-year RN program)

Bachelor of Arts
Merchandising and Consumer Affairs

Bachelor of Science
Agribusiness
Animal Science
Biology
Environmental Science

Family. Infancy, and Early Childhood Education
Health Information Administration
Medical Technology
Nutrition and Dietetics
Plant Science
Wildlife Conservation

Bachelor of Science in Forestry

Master of Science
Biology
Family and Consumer Sciences
Nutrition and Dietetics

These curricula provide well-balanced educational programs based on the professional needs of students. They include instruction in the natural sciences, the humanities, and the social sciences as well as a comprehensive education in one of the specialized fields of the college.

Minors Available
The following areas of study are available for a minor:

Animal Science
Biology
Consumer Affairs
Environmental Science
Family and Child Studies
Forestry
Geographic Information Science
Gerontology (interdisciplinary)
Human Nutrition
Medical Technology
Merchandising
Plant Science
Wildlife Conservation

Specific requirements for each of these minors are identified in the departmental and school sections of the bulletin.

Admission
Students who meet the University admission criteria will be admitted to the College of Applied and Natural Sciences. Specific admissions criteria have been established for some programs. These criteria are identified in the descriptions of those programs.

Transfer Students
Candidates for admission to the College of Applied and Natural Sciences who have completed course work at another institution must submit an official record of that credit to Louisiana Tech University. This record will be evaluated by the department conducting the program in which the candidate wishes to major. The evaluation will determine which curricular requirements of the program of study at Louisiana Tech have been satisfied by the student’s prior course work. General education requirements are evaluated by the College of Applied and Natural Sciences. A grade of “C” or better is considered acceptable for transfer of credit for required or equivalent courses in the College of Applied and Natural Sciences degree programs.
Experiential/Cooperative Education

Students majoring in agribusiness; animal science; environmental science; family, infancy, and early childhood education; forestry; biology; plant science; merchandising and consumer affairs; and wildlife conservation may elect to participate in a cooperative education/internship experience one or more terms during their college careers. These students receive relevant work experiences while earning college credit. Some students are paid for their services.

These experiences are designed to develop professional competencies, to impart general and specific skills, to provide opportunities for application of theoretical concepts, and to assist students in the transition from college to employment. The work experience also may provide students an entree for their first job following graduation.

Experiential learning experiences occur beyond the North Louisiana area. Cooperative education and practica work experiences occur in a variety of locations both within and outside Louisiana. Nursing, Health Information Management, and Dietetic students receive clinical instruction in varied health care facilities throughout North and Central Louisiana. Medical Technology students complete clinical experiences in hospitals during their senior year. The Early Childhood Education Center serves as an early childhood demonstration laboratory for participation with young children. Students may travel to New York and Dallas as part of Merchandising and Consumer Affairs travel study. Agricultural Sciences students have the opportunity to complete cooperative education experiences in agricultural industries and with agribusiness firms located throughout the United States.

All programs require application and acceptance.

Scholarships

Scholarships are available in the College of Applied and Natural Sciences. Any student enrolled in the college is eligible to apply for general scholarships. However, a number of scholarships are available only to students in a certain department or major.

The M. Hayne Folk, Jr., Memorial Scholarship of $150 is awarded to a sophomore within the College of Applied and Natural Sciences having high academic achievement and financial need.

Health Science Scholarships are available to students majoring in the allied health professions of medical technology, health information management, speech pathology, nursing, pre-medicine, dietetics and other pre-professional programs in the health sciences. Recipients are students who have demonstrated academic excellence at Louisiana Tech University in an allied health major.

The Ruston Hospital Endowment is available to Health Science students from Lincoln Parish.

The Lettie Pate Whitehead Scholarship is open to undergraduate women students who meet the following criteria:

- Financial need, Christian, and registered in Health Information Management (2- or 4-year curriculum), Nursing, Medical Technology, or Speech Pathology. The amount of the scholarship is based on need.

AGRICULTURAL SCIENCES

The Benjamin Forbes Leadership Scholarship is awarded to an animal science student who shows leadership potential and is specializing in dairy production.

The Block and Bridle Brittain Simms Memorial Scholarship is awarded to a Block and Bridle student for outstanding leadership, service, and club activity.

The Block and Bridle Richard Hill Memorial Scholarship is awarded to an outstanding first year Block and Bridle student.

The Block and Bridle Sullivan Memorial Scholarship is awarded to a Block and Bridle student for outstanding scholastic achievement and club activity.

The C. G. Hobgood Memorial Scholarship is awarded to an advanced student in Plant Science.

The T. W. Ray Johnson Memorial Scholarships are available to students in Agricultural Education and Animal Science.

The John A. Wright Horticulture Scholarship is awarded to a student majoring in Plant Science.

The Todd McAfee Memorial Scholarship is awarded to a senior in Agribusiness or an Alpha Zeta officer.

The Agricultural Endowment Scholarships are available to entering freshmen and continuing students in all fields of agriculture.

The Bessie Mae Talbert Purdy Scholarships are available to students in Agricultural Education.

The Northeast Flower Society Horticulture Scholarship is awarded annually to a student majoring in Plant Science – Horticulture.

The James Furman & Lavara B. Love Endowed Scholarship is awarded annually to a full-time student majoring in Plant Science with a minimum 3.25 GPA and employed on a part-time basis.

The John Green Scholarship is awarded to a student majoring in Plant Science.

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FORESTRY
Application deadline is February 1. Write School of Forestry, Box 10138, T. S., Ruston, LA 71272 for applications, or complete on-line application on college web site.

The Louisiana Tech Forestry Alumni Association award of $1000 is given to one or more forestry students.

School of Forestry Freshman Awards of up to $1500 are provided to beginning freshman.

Richard M. Sisk Trust Fund Award of $1000 is provided to one or more beginning freshmen.

The Louisiana Forestry Foundation awards $1000 scholarships to selected forestry students.

Seedling and Sapling Club of the Louisiana Forestry Association awards a $200 scholarship to an outstanding forestry junior or senior.

Willamette Industries awards an $825 scholarship to a selected forestry student.

The Walter Kellogg Forestry Scholarship of $1000 is awarded annually to a selected forestry student.

The Lloyd P. Blackwell Scholarship of $1000 per year is awarded to one or more forestry students.

The Dan and Dave Metz Scholarship is an annual award of $1000 to one or more forestry students.

W. L. Browder Scholarship, an annual award of $600, is given to one or more forestry students.

Clyde and Ruby Anthony Scholarship is an award of $1,000 to non-freshman forestry majors.

Wirt L. and Althea E. Bond Forestry Scholarship awards up to $2,000 to forestry students.

Andrulot Scholarship, an award of $500, is given to one or more forestry field session students.

E. W. Merritt Scholarship, an annual award of $1000, is given to one or more forestry students.

The Clyde and Mildred Mobley and Kola Mobley Fouche Memorial Scholarship was established for freshman students by Mr. and Mrs. Laurie Mobley in honor of his sisters.

F. C. and Gladys M. Haley Scholarship was established by Mr. F. C. Haley, a 1931 graduate of Louisiana Tech and prominent educator, and his wife. The award is designated for a first-year human ecology student.

The Clothieilde Tuten Clark Scholarship was established by Mrs. Clark, a 1935 graduate of Home Economics and former Cooperative Extension agent, for an incoming freshman student.

Human Ecology Faculty Scholarships vary in amount and are awarded to upper division or graduate students based on professional promise.

Human Ecology Organization Scholarships are awarded as funds are available by the Louisiana Tech student chapters of the Louisiana Early Childhood Association, Kappa Omicron Nu, and the Louisiana Association of Family and Consumer Sciences (LAFCS) to outstanding members.

The Rhoda L. Chambless Scholarship was established by Mrs. Chambless’ family. The scholarship is awarded to a junior human ecology major.

The Willie Lou Durrett Scholarship was established by Dr. Mary Ellen Durrett, former head of home economics at the University of Texas-Austin, to honor her mother. The scholarship is awarded to a senior student with interest in extension or child development.

The Laurie S. and Helen Mobley Scholarship is awarded to a junior human ecology major.

The Lois M. Jackson Dietetics Advisory Board Scholarship is awarded to a senior in nutrition and dietetics. The award is based on academic achievement, professional promise, and financial need.

The Whetstone Scholarship is provided by Mr. and Mrs. Terral Whetstone, alumni of Louisiana Tech, to a sophomore human ecology student.

The Eastman/Auto-Chlor Scholarship is provided by Auto-Chlor Systems, a business in chemical sanitation, for a junior nutrition and dietetics major.

The Bette Heard Wallace Endowed Scholarship was established to honor Mrs. Wallace upon her retirement from the College of Human Ecology. Recipients must be at least a junior and have an established record of leadership and scholarship.

The Henry E. and Margaret A. Stamm Endowed Scholarship was established by John R. and Mary Margaret Stamm Clay to honor her parents. The scholarship is awarded annually to a sophomore human ecology major that demonstrates academic excellence.

The Merle Burke Endowed Scholarship was established by Miss Burke, a former faculty member, to honor an upper class human ecology student with outstanding professional promise.

The Morrison’s Health Care Scholarship was established by Morrison Health Care, Inc. It is given to a junior dietetics major.
The Willie Fletcher Scholarship, which is awarded to a graduate student in a Family and Child Studies-related program, was established by Mr. and Mrs. Lucius McGehee to honor Miss Willie Fletcher, the first Director and teacher at the Louisiana Tech University Early Childhood Education Center.

The Jeanne Mack Gilley Endowed Scholarship. This scholarship was established by Human Ecology alumni and faculty to honor Dean Gilley upon her retirement from the College of Human Ecology. It is awarded to a graduate student in a human ecology degree program.

The E. Lee and Armede Wilks Young Endowed Scholarship was established by Mrs. Young, an alumna of human ecology and her husband, to recognize outstanding achievement in an undergraduate student.

The Rev. and Mrs. W. R. Gage Endowed Scholarship is awarded to a senior human ecology major who exhibits outstanding promise.

The Dr. Harvye Lewis Endowed Scholarship, established by Dr. Lewis, recognizes academic excellence and professional potential in graduate students.

NURSING
The Mary Jarrell Nursing Scholarship is awarded to students majoring in A. D. nursing.

The Mary Marguerite Merritt Scholarship is awarded to students who are currently enrolled or have been accepted into the associate degree program in nursing. The selection criteria are GPA of 2.8 or greater; financial need; leadership and activities, organizations; awards; scholarships and other financial aid; and future career plans.

The Henry R. Mays, Jr. Scholarship is awarded to students who have completed a minimum of three (3) quarters of the nursing curriculum at Louisiana Tech University. The selection criteria include 2.5 or greater GPA; a caring manner; and letters of reference.

Facilities
Academic programs in the College of Applied and Natural Sciences are located in Carson Taylor Hall and George T. Madison Hall on the main campus as well as Reese Hall and Lomax Hall on the South Campus. In addition, numerous laboratory facilities in other buildings and at other sites enhance the instruction of students. Biological sciences and human ecology are located in Carson Taylor Hall. In addition, biological sciences has facilities in George T. Madison Hall. Nursing and health information management are located in George T. Madison Hall.

The Center for Children and Families, the only such center in Louisiana approved by the Board of Regents, is operated by the School of Human Ecology. The center encourages collaborative research, instruction, and service that promote the well-being of children and families. The Family and Child Studies Institute, one component of the center, sponsors the endowed Bruce Everist Lecture Series. Another component, the Early Childhood Education Center, is a learning laboratory for three- and four-year-old children. Early childhood education students observe, student teach, and conduct research at the center.

Agricultural sciences and forestry programs are located on the South Campus. Reese Hall, Lomax Hall and the Forestry Laboratory Building provide classrooms, laboratories and office space. In addition, Lomax Hall houses research and student laboratories, greenhouses, and a display greenhouse for large plant specimens and exotic plantings. The 850 acre South Campus also has a Jersey-Holstein herd and dairy facility which provides milk for the campus; a dairy processing plant which pasteurizes and packages milk, makes cheeses and butter, and produces ice cream; a meats laboratory which trains students in meat processing and marketing; and an equine center. The Louisiana Tech University Farm Salesroom, also located on South Campus, offers products that are produced and/or processed by the Department of Agricultural Sciences. Fluid milk, cheese, ice cream, yogurt, butter, and sour cream are available on a continuing basis. Specialty products include peach ice cream, Christmas eggnog, and gift-boxed, wax-dipped cheddar cheese. The Tech Meats Laboratory sells retail cuts of beef, chicken, and pork through the Salesroom. Other products include seasonal fruits and vegetables, ornamental plants, Christmas poinsettias, and bedding plants. The Salesroom provides an integrated link in the marketing and sales of food and ornamental plant products.

The Louisiana Tech Equine Center provides facilities and animals for student instruction in all phases of horsemanship such as breeding, training, and nutrition. The center also provides recreational horseback riding sessions and is developing a therapeutic and handicapped horseback riding program.

Also located on the South Campus are numerous other facilities which support the agriculture and forestry programs: a sawmill, a dry kiln, wood utilization laboratories, a wood working shop, a weather station, a farm machinery shop, barns for livestock, fields, forests, nurseries, research vegetable and flower gardens, a 50-acre arboretum, and ponds.

University-owned forestlands (800 acres) in North Louisiana and West Mississippi are used in the forestry education and research programs.

Student Organizations
A number of organizations provide students opportunities for professional and leadership development, service, and networking with other students, faculty, and professionals. Students who desire more information about these organizations may consult either their advisor or their academic unit head. College organizations include the following:

Agricultural Sciences
- Alpha Zeta
- Block and Bridle
- Future Farmers of America
- Horticulture Club
- Pre-Vet Club

Biological Sciences
- Alpha Epsilon Delta
- Chi Lambda Beta

Environmental Science
- National Association of Environmental Professionals

Forestry
- Alpha Zeta
- Forestry Club
- Forest Products Society
- Xi Sigma Pi
- Student Chapter, Society of American Foresters
- Student Chapter, The Wildlife Society

Health Information Management
- Sigma Rho Alpha
Human Ecology
Organization of Human Ecology Students
Louisiana Tech Student Association of Family and Consumer Sciences
Louisiana Tech Student Dietetic Association
Louisiana Tech Student Early Childhood Association (LAEC4A)
Merchandising and Consumer Club
Kappa Omicron Nu (National Honorary)
Child Life Organization

Nursing
Student Nurses Association

Department of Agricultural Sciences
The Department of Agricultural Sciences offers Bachelor of Science degrees in agribusiness, animal science, and plant science. A concentration in agricultural education can be earned while fulfilling the requirements for teacher certification in secondary education in the College of Education. The animal science curriculum has six areas of concentration: dairy production, dairy processing, equine, livestock production, general animal science, and pre-veterinary medicine. The plant science curriculum consists of two concentrations: agronomy and horticulture.

Louisiana Core Curriculum for Agriculture Programs
Following is a two-year core curriculum for agricultural programs throughout the State of Louisiana. All state universities have agreed to accept these courses toward any agricultural degree program upon transfer from one university to another.

Core Agriculture
English (GER) ................................................................. 6
Mathematics (GER)
Mathematics 101, 111 or 112 ............................................ 6
Computer Literacy (GER)
Agricultural Science 201 or
Computer Information Systems 101 ................................ 3
Natural Sciences (GER)
Biological Sciences 130, 131, 132, 133 ................................ 8
Chemistry 100, 101, 102, 103, 104 .................................... 8
Arts (GER)
Art 290, Music 290, or Speech 290 ................................. 3
Humanities (GER)
English 201 or 202, 303 .................................................. 6
History 201 or 202 ......................................................... 3
Speech 377 ................................................................. 3
Social Sciences (GER)
Economics 215 ........................................................... 3
Psychology, Sociology, or Geography .............................. 3
Animal Science 111 ....................................................... 4
Plant Science 101, 200, 202 ............................................. 7

Agricultural Business Curriculum (B.S.)
Freshman Year
Animal Science 111 ....................................................... 3
Natural Sciences (GER)
Biological Sciences 130, 131 ............................................ 4
English (GER) ............................................................... 6
Humanities (GER)
History Elective .......................................................... 3
Mathematics (GER)
Mathematics 101 or 111, 112 ........................................... 6
Plant Science 101 ........................................................... 3
Social Sciences (GER) ...................................................... 6

Sophomore Year
Accounting 201, 202 ..................................................... 6
Agricultural Business 220 ................................................ 3
Directed Elective* ........................................................ 3
Natural Sciences (GER)
Chemistry 100, 101, 102, 103, 104 ................................ 8
Social Sciences (GER)
Economics 215 ........................................................... 3
Humanities (GER)
English 201 or 202 ..................................................... 3
Computer Literacy (GER) .............................................. 3
Arts (GER) ................................................................. 3

Junior Year
Agricultural Business 310 ................................................. 3
Agricultural Science 320 ................................................ 3
Humanities (GER)
English 303 ............................................................... 3
Speech 110 or 377 ........................................................ 3
Directed Electives* ....................................................... 3
Business Elective (300 or 400 level) ................................. 3
Finance 318 ............................................................... 3
Management 310 ........................................................ 3
Marketing 300 ............................................................. 3
Plant Science 310 ........................................................... 3

Senior Year
Agricultural Business 402, 411, 430, 450, 460 ....................... 13
Directed Electives* ....................................................... 12
Environmental Science 300 ........................................... 3
Elective ................................................................. 3

Total Semester Hours ..................................................... 124
(GER): General Education Requirements (pg. 29)
*Directed Electives chosen by student in consultation with advisor.

Agricultural Education
The concentration in agricultural education prepares the student for teaching vocational agriculture in secondary schools. The College of Education manages this program in conjunction with the Department of Agricultural Sciences, with student advising within this department. Students in agricultural education must meet the general requirements for admission to teacher education in the College of Education's upper division. The program in agricultural education, leading to a Bachelor of Science degree in Secondary Education, requires 127 semester hours, nine of which are earned in selected high schools in the area of apprentice teachers. Service courses in technical agriculture provide the student training in the areas of plant science, animal science, forestry, soils, farm management, and farm mechanics. An active collegiate chapter of Future Farmers of America provides practical experience in this important leadership activity.

The program is listed under the College of Education - Curriculum, Instruction, and Leadership. Inquiries about this
curriculum may be made to either this department or to the College of Education.

Animal Science

Animal science includes the fields of poultry, swine, dairy, beef, equine, and veterinary science.

Animal science provides instruction and practical experience in judging, breeding, feeding, and managing livestock. Through course selection the student may prepare for livestock farming, management, business, or graduate study in animal science or veterinary medicine. Selection of directed electives permits special training for work with animal feed companies; milk, egg or poultry operations; food processing industries; managerial or marketing groups; supply and equipment cooperatives; agricultural extension services; public relations; and other organizations associated with animal production or management.

Opportunities are afforded students in animal science to obtain practical experiences in beef, dairy, sheep, swine, and equine operation and management through the University herds of registered livestock. An automated milking parlor, dairy barn, beef barn, crop lands, and pastures are utilized for instruction and student training. A meats laboratory for the study of meat cutting, preservation, storage and utilization, and a dairy processing plant equipped for processing fluid milk and manufacturing dairy products provide students opportunities for acquiring scientific and practical experiences in different aspects of processing meat and dairy products. Breaking, training, and breeding services are offered to the equine industry as an integral part of Tech's popular equine program within the Agricultural Sciences Department. Prominent stallions, representing some of the most popular bloodlines in America, are utilized in the breeding program. A nationally affiliated chapter of the Block and Bridle Club and the Pre-Vet Club provide social and educational activities for students pursuing animal science as a profession.

Animal Science Curriculum (B.S.)

Freshman Year
Animal Science 111 ................................................................. 3
Arts (GER) .............................................................................. 3
Natural Sciences (GER)
Biological Sciences 130, 131, 132, 133 .................................. 8
English (GER) ............................................................... 6
Mathematics (GER)
Mathematics 101 or 111 and 112 ...................................... 6
Social Sciences (GER) .................................................. 3
Plant Science 101 ............................................................... 3

Sophomore Year
Agricultural Business 220 .................................................. 3
Animal Science 201, 202, 204 or 211 .................................. 3
Biological Sciences 214 or 260 ............................................ 4
Natural Sciences (GER)
Chemistry 100, 101, 102, 103, 104 .................................... 8
Humanities (GER)
History ........................................................................... 3
English 201 or 202 ............................................................... 3
Speech 110 or 377 ............................................................... 3
Computer Literacy (GER).................................................... 3
Directed Electives* .......................................................... 2

Junior Year
Agricultural Business
Any 300 or 400 level** ......................................................... 3
Animal Science 301, 309, 405 .............................................. 9
Humanities (GER)
English 303 ............................................................... 3
Biological Sciences 200 or 310 ............................................ 3
Directed Electives* .......................................................... 6

Plant Science 211, 310 ......................................................... 6

Senior Year
Agricultural Business 411 ................................................... 1
Animal Science 315 or 407 or 408 or 410 ............................. 3
Animal Science 318, 401, 409 ............................................. 7
Social Science (GER) ..................................................... 6
Agricultural Science 320 ....................................................... 3
Directed Electives* .......................................................... 10

Total Semester Hours .................................................. 124

(GER); General Education Requirements (pg. 29)
*Directed Electives chosen by student in consultation with advisor from one of the following concentrations:
**Does not include Agricultural Business 411.

Dairy Production Concentration Directed Electives
Animal Science 302, 307 and 418;
Animal Science 304 or 305 or 306;
Biological Sciences 416 plus 2 additional directed elective hours.

Dairy Processing Concentration Directed Electives
Animal Science 302, 304, 305, 306 and 430
Biological Sciences 416

Equine Science Concentration Directed Electives
Animal Science 307, 322, 324, 420, and 440 plus 4 additional
directed elective hours.

Livestock Production Concentration Directed Electives
Animal Science 204, 307, 315, 410, and 418; plus 6 additional
directed elective hours.

General Animal Science Concentration Directed Electives
Eighteen hours of directed electives

Pre-Veterinary Medicine Concentration Directed Electives
Chemistry 250, 251, 252, and 351, Physics 209, 210 plus 3
additional directed elective hours.

Applications to Veterinary Medicine Programs

Students in the pre-veterinary medicine concentration who have an exceptional grade point average and an acceptable score on the Medical College Admissions Test (MCAT) or Graduate Record Examination (GRE) may wish to apply for admission to veterinary school during their junior year. Such a student may receive a Bachelor of Science degree in Animal Science from Louisiana Tech University after completing one year of veterinary school if they meet the following criteria: (1) completion of 90 credit hours, (2) completion of the General Education Requirements, (3) completion of the following Agricultural Sciences requirements: Animal Science 111 plus 12 additional hours of 300-400 level courses; Biological Sciences 130, 131, 132, 133, 260 ; Chemistry 100, 101, 102, 103, 104, 250, 251, 252, and 351. The student must arrange for transfer of credit and follow the procedures applicable for graduation at Louisiana Tech University.

The pre-veterinary medicine concentration at Louisiana Tech University is based on requirements for application to the veterinary program at Louisiana State University in Baton Rouge. Application for admission to the veterinary program at Louisiana State University is made in October for admission in the fall of the following year. The MCAT or GRE score must be provided from the year prior to application for admission. Requirements for admission to professional veterinary programs in other states may vary.

Only residents of Louisiana and Arkansas are normally eligible to apply for admission to the LSU Veterinary School. Residence status is determined by LSU and residence status at
Louisiana Tech University has no bearing on such determination.

Requirements for a Minor in Animal Science: Twenty-one hours with a minimum of 9 hours in 300-400 level courses. Courses may be selected from Animal Science 111 plus any combination of other animal science courses. All courses applied toward the minor must be completed with the grade of “C” or higher.

**Plant Science**

The plant science curriculum culminates in a Bachelor of Science degree with a concentration in agronomy or horticulture. Both deal with the cultural and applied aspects of plant production.

Students learn about plant science in a variety of laboratory facilities: 5,000 square foot conservatory, approximately 25,000 square feet of glass and aluminum greenhouse space, computer lab, crops lab, pest management lab, soils lab, grafting and propagation lab, six additional greenhouses, a vegetable garden, a landscape display garden, an arboretum, turf plots, and agronomy field plots.

The Horticulture Club sponsors the annual Poinsettia Show and participates in an annual educational tour of horticulture in different regions of the United States.

**Plant Science Curriculum (B.S.)**

**Freshman Year**

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<thead>
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<th>Natural Sciences (GER)</th>
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<td>Biological Sciences 130, 131, 216, 217</td>
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<tr>
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<td>Plant Science 101</td>
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**Sophomore Year**

<table>
<thead>
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<th>Computer Literacy (GER)</th>
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<td>Humanities (GER)</td>
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<td>English 201 or 202</td>
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<td>History</td>
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<td>Electives</td>
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**Junior Year**

<table>
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<tr>
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**Senior Year**

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<tr>
<td>Agricultural Sciences 320</td>
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<tr>
<td>Directed Electives*</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Semester Hours 124

*Directed Electives chosen by student in consultation with advisor from one of the following concentrations:

**Agronomy Concentration Directed Electives**

(Select 30 hours from the following list)

- Agricultural Science 477, 478, 479
- Environmental Science 300
- Plant Science 211, 309, 312, 320, 400, 403, 409, 421, 422, 423
- Agricultural Business or Animal Science Electives

**Horticulture Concentration Directed Electives**

(Select 30 hours from the following list)

- Agricultural Science 477, 478, 479
- Environmental Science 300
- Plant Science 284, 300, 301, 302, 312, 320, 384, 400, 403, 420, 421, 422, 423, 440, 441
- Agricultural Business Electives

**General Plant Science Concentration**

(33 hours of Directed Electives)

Requirements for a Minor in Plant Science: Twenty-one hours with a minimum of 9 hours in 300-400 level courses. Courses may be selected from Plant Science 101 plus any combination of other Plant Science courses (except-Plant Science 400). All courses applied toward the minor must be completed with the grade of “C” or higher.

**School of Biological Sciences**

The curricula and courses offered by the School of Biological Sciences are designed to prepare students to meet a broad range of career goals. Two undergraduate degrees are offered: Bachelor of Science in Biology and Bachelor of Science in Medical Technology. Each degree program includes general education courses; a group of required courses in biology, chemistry, mathematics, and physics; and electives, selected with approval of the advisor, appropriate to a program. The graduate curriculum leads to the Master of Science in Biology.

**Biology**

Students completing a degree in Biology select a concentration based upon their career goals. Students are urged to consult with advisors in selecting the concentration that is best suited to their post-graduate career. The course work in animal biology, cell and molecular biology, and microbiology satisfies the course requirements for entrance to most graduate, medical and dental schools, as well as other medical fields if certain electives are taken. Graduates in microbiology are in demand as research assistants in various academic and industrial laboratories.

Occasionally, students are accepted to and enroll in medical, dental, or other professional school before completion of the bachelor’s degree. Such a student may make application to receive a Bachelor of Science degree in Biology from Louisiana Tech University after successfully completing one year of professional school. The following criteria are met:

1. completion of the General Education Requirements,
2. completion of 90 semester credit hours to include Biological Sciences 130-133, 310, 313; 320 or 335 or 405; Chemistry 100-104 or 107, 108, 250-254; 351, 352; Statistics Elective.

The opportunities for graduates in plant biology are varied, including employment in state and federal agencies such as agricultural experiment stations and the National Park Service. Graduate work in plant biology can lead to teaching and research opportunities.

The applied biology concentration provides a wide variety of elective choices to prepare students for postgraduate study or for jobs as research assistants and managers in a wide range of academic and industrial laboratories, state and federal agencies, and private industry. This concentration is not suitable for students intent on applying to medical or dental schools, but may be “customized” to fulfill requirements for admission to allied health programs.

To graduate with a Bachelor of Science in Biology, the student must have a minimum grade point average of 2.0 in all
Biological Sciences courses taken and may not have earned less than a grade of “C” in a required biological sciences course.

**Biology Curriculum (B.S.)**

**Freshman Year**

Natural Sciences (GER)
- Biological Sciences 130, 131, 132, 133, 260 ......................... 12
- English (GER) ................................................................. 6
- Mathematics (GER)
  - Mathematics 101, 112 .............................................. 6
  
- Directed Electives* ..................................................... 8

**Sophomore Year**

- Humanities (GER)
  - English 201 or 202 .................................................... 3
  
- History Elective

- Physics 209, 210, 261, 262 ........................................... 8
  
- Directed Electives* ..................................................... 14-17

**Junior Year**

- Computer Literacy (GER) .............................................. 3
- Humanities (GER)
  - English 303 ............................................................. 3
  - Speech 110, 377, or English 463 .................................. 3
- Social Science (GER) ..................................................... 3
  
- Directed Electives* ..................................................... 14-15
  
- Statistics ..................................................................... 3
  
- Electives ..................................................................... 3

**Senior Year**

- Arts (GER) ................................................................. 3
- Biological Sciences 313, 480 ........................................... 4
- Social Science (GER) ..................................................... 3
  
- Directed Electives* ..................................................... 10-13
  
- Electives ..................................................................... 6

**Total Semester Hours .......................................................... 124**

*(GER): General Education Requirements (pg. 29)

*Directed Electives chosen by student in consultation with advisor from one of the following concentrations:

**Animal Biology Concentration Directed Electives**

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) Sophomore Year: Biological Sciences 290, 320, 321 (8); Chemistry 250, 251, 252, 253, 254 (8) Junior Year: Biological Sciences 310 (3); Biological Sciences Elective (3); Chemistry 351, 352, 353, 354 (8) Senior Year: Biological Sciences Electives (11)

**Applied Biology Concentration Directed Electives**

(Does not meet the minimum requirements for admission to medical or dental school.)

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) or Chemistry 120, 103, 121, 122 (8) Sophomore Year: Biological Sciences Anatomy Elective (4); Biological Sciences 315, 320 & 321 or 335, 405 (6-7); Biological Sciences Electives (6) Junior Year: Biological Sciences 310 (3); Biological Sciences Elective (3); Science Electives (9) Senior Year: Science Electives (10)

**Cell and Molecular Biology Concentration Directed Electives**

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) Sophomore Year: Biological Sciences 315, 320 or 405 (6); Chemistry 250, 251, 252, 253, 254 (8) Junior Year: Biological Sciences 402, 404 (4); Biological Sciences Elective (3); Chemistry 351, 352, 353, 354 (8) Senior Year: Biological Sciences 401, 422 (6); Biological Sciences Electives (5)

**Microbiology Concentration Directed Electives**

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) Sophomore Year: Biological Sciences 335, 408 (7); Chemistry 250, 251, 252, 253, 254 (8) Junior Year: Biological Sciences 402, 404 (4); Biological Sciences Elective (3); Chemistry 351, 352, 353, 354 (8) Senior Year: Biological Sciences 401, 422 (6); Biological Sciences Electives (5)

**Plant Biology Concentration Directed Electives**

Freshman Year: Chemistry 100, 101, 102, 103, 104 (8) Sophomore Year: Biological Sciences 205, 221, 222 (9); Chemistry 250, 251, 252, 253, 254 (8) Junior Year: Biological Sciences 310 (3); Biological Sciences Elective (3); Chemistry 351, 352, 353, 354 (8) Senior Year: Biological Sciences 216, 217, 405 (7); Biological Science Elective (3)

**Requirements for a Minor in Biology**

Twenty-one hours of Biological Sciences (BISC) courses with a minimum of 9 hours in 300-400 level courses. Course selection must include Biological Sciences 130, 131, 132, 133, 310, 313, plus a physiology course (Biological Sciences 320 & 321, or 335, or 405). All courses applied toward the minor must be completed with the grade of “C” or higher.

**Medical Technology (Clinical Laboratory Science)**

Medical technologists (clinical laboratory scientists) are clinical specialists who design, perform, evaluate, and supervise biological, chemical, and other clinically related tests. Job opportunities for these specialists exist in hospitals, clinics, research facilities, government agencies, educational institutions, and industries.

Graduates of the program in Medical Technology are required to complete 125 semester hours of specified course work, which includes one calendar year (40 semester hours) of professional course work in an accredited medical center program affiliated with Louisiana Tech University. These programs are located in metropolitan areas throughout the region and provide “hands on” training. Affiliated medical center programs are located at Lake Charles Memorial Medical Center, Lake Charles, LA; Our Lady of the Lake Medical Center, Baton Rouge, LA; Rapides General Hospital, Alexandria, LA; St. Elizabeth Hospital, Beaumont, TX; St. Francis Medical Center, Monroe, LA; Veterans Administration Medical Center, Shreveport, LA; Wadley Regional Medical Center, Texarkana, TX, Baptist Health System, Little Rock, AR, and Comanche County Memorial Hospital, Lawton, OK.

During the third quarter of the sophomore year, students are counseled as to their progress toward meeting the minimum academic requirements for admission to the professional education component. This evaluation is based on the student’s progress in completing all required pre-professional courses, a minimum cumulative grade point average of 2.7, no grade less than “C” in a subject area, and the recommendation of the program faculty.

Students who meet the criteria listed above are allowed to complete the formal application process to professional training sites. Applications should be completed by the end of the third quarter of the sophomore year. Applicants are admitted to the professional programs on a competitive basis by using both academic and non-academic criteria. Admission decisions are made by the Admissions Committee at each site. Applicants are informed of the decision of the Admissions Committee by the first quarter of the junior year. Students who are not selected for admission are counseled as to their deficiencies and of appropriate remedial action or alternative career opportunities.

Students who are accepted into the professional program enroll in courses chosen by the student and the Program Coordinator. On-campus registration for these students is coordinated with campus faculty with appropriate fees paid by the student at the time of registration. The student must comply with all University policies and the policies of the clinical affiliate. These policies are stated in the bulletin or the program brochure of each clinical site. Students must maintain a grade of “C” or better in all clinical courses. Students who fail to follow these policies are dropped from the program. On-site living expenses are the responsibility of the student. University financial aid (loans, grants, scholarships) is available to students during clinical training.
After completion of professional education, the student is awarded the Bachelor of Science degree and is eligible for professional certification, which is achieved by passing a nationally recognized registry examination.

**Medical Technology Curriculum (B.S.M.T.)**

*Freshman Year*

<table>
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<tr>
<th>Natural Sciences (GER)</th>
<th>Physical Sciences</th>
<th>Humanities (GER)</th>
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<tr>
<td>Biological Sciences 130, 131, 224, 226</td>
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<td>6</td>
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<tr>
<td>Chemistry 100, 101, 102, 103, 104</td>
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<td>English (GER)</td>
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<tr>
<td>Mathematics (GER)</td>
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<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Statistics 200</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

*Senior Year*

| Biological Sciences 250, 260, 406, 446                         | 13              |
| Chemistry 250, 251, 252                                       | 6               |
| English 201 or 202                                            | 3               |
| History                                                      | 3               |
| Social Sciences (GER)                                         | 6               |

*Junior Year*

| Biological Sciences 245, 341, 402, 445                         | 12              |
| Clinical Laboratory Science 457                               | 2               |

*Humanities (GER)*

| English 303                                                  | 3               |
| Speech 110 or 377                                            | 3               |
| Arts (GER)                                                   | 3               |

*Directed Electives* *............................. 8*

*Total Semester Hours ................................... 125*

(GER): General Education Requirements (pg. 29)

*The student and Program Coordinator will choose courses from Clinical Laboratory Science 460-489.

**Requirements for a Minor in Medical Technology**

Twenty-one hours of coursework chosen from Biological Sciences 245, 250, 260, 341, 402, 445, 446, 447, and Clinical Laboratory Sciences 450, 457. All courses applied toward the minor must be completed with the grade of "C" or higher.

**Pre-Professional Coursework**

The School of Biological Sciences offers coursework to prepare students for entrance into health profession curricula offered at institutions other than Louisiana Tech University. The pre-professional coursework necessary for admission to these programs is specified by the admitting institution, not Louisiana Tech University. Furthermore, admission criteria and pre-professional course requirements vary with each professional program. Therefore, it is the responsibility of each student to obtain a catalog from the school where he or she plans to attend and determine which courses are required. Admission to professional phases of all programs is on a competitive basis. Furthermore, it should be noted that although some programs will consider students after two years of coursework at Louisiana Tech, in reality many students are admitted only after completion of a baccalaureate degree. The following sections are for informational purposes only. Students should routinely consult with their academic advisor for changes in pre-professional course and program requirements.

**Pre-Physical Therapy**

A baccalaureate degree in any discipline that includes the courses listed below is required for entry into the M.S. program at Louisiana State University Medical Center:

- English (GER) (6); Advanced English Composition or Technical Writing (3); Chemistry 100, 101, 102, 103, 104 (8); Biological Sciences 130, 131, 132, 133 (8); Physics 209, 210, 261, 262 (8); Advanced Biology (recommended Biological Sciences 315 or 407) (3); Anatomy and Physiology (Biological Sciences 225, 228) (6); Mathematics (GER) (6); Psychology 102 and Psychology Elective (Abnormal or Growth and Development) (6); Statistics (3); Computer Literacy (GER) (3); Speech 110 or 377 (3).

**Pre-Cardiopulmonary Science (Respiratory Therapy)**

Students may be admitted without a degree to the program at Louisiana State University Medical Center upon completion of the following requirements:

- English (GER) (6); Humanities (recommended: English Literature, English 303, Advanced Composition, or Foreign Language) (9); Chemistry 100, 101, 102, 103, 104 (8); Mathematics (GER) (6); Biological Sciences 130, 131, 132, 133 (8); Science Elective (Biological Sciences 225, 227) (6); Psychology 102 (3); Physics 209, 261 (4); Biological Sciences 214 (4); Arts (GER) (3); Computer Literacy (GER) (3).

**Physician Assistant**

Although it is possible for students to be admitted without a degree to the program at Louisiana State University Medical Center, it is more likely that admission will be granted upon completion of a degree in any discipline that includes the following requirements:

- Arts (GER) (3); Computer Literacy (GER) (3); English (GER) (6); Humanities (recommended foreign languages, philosophy, religion, literature, speech/communications) (9, at least 3 hours at sophomore level or above); Psychology 102 and Psychology Elective (child, developmental, etc) (6); Social Sciences (GER) (3); Mathematics (GER) (6); Chemistry 100, 101, 102, 103, 104 (8); Biological Sciences 225, 226 (4); Physics 209, 261 (4); Biological Sciences 130, 131, 214, (8).

**Pre-Occupational Therapy**

Students may be admitted without a degree to the program at Louisiana State University Medical Center upon completion of the following requirements:

- Biological Sciences 130, 131, 132, 133, 224 (11); Arts (GER) (3); Chemistry 100, 103 (3); Computer Literacy (GER) (3); English (GER) (6); English 201 or 202 (3); Humanities Electives (6); Mathematics (GER) (6); Psychology 102 (3); Psychology Electives (adjustment, child, adolescent, social) (6); Physics 209, 261 (4); Sociology 201 (3).

**Pre-Radiologic Technology**

Students may be admitted without a degree to the program at University of Louisiana at Monroe upon completion of the following requirements:

- Mathematics 101, 112 (6); English (GER) (6); Chemistry 100, 101, 103 (5); Biological Sciences 225, 226, 227, 228, 346 (10); Psychology 102 (3); Health Information Management 103 (3); Physics 209, 210, 261, 262 (8); English 201 or 202, 303 (6); History (3); Arts (GER) (3); Speech 110 or 377 (3); Computer Literacy (GER) (3); Sociology 410, Clinical Laboratory Science 450.

**Pre-Pharmacy**

The University of Louisiana at Monroe offers two pharmacy programs, one baccalaureate and one leading to the Doctor of Pharmacy. The following requirements are necessary for both:

- Accounting 201 (3); Biological Sciences 130, 131, 214 (8); Chemistry 100, 101, 102, 103, 104, 250, 251, 252, 253, 254 (16); Economics 201 or 215 (3); Humanities (foreign languages, history, literature, philosophy, religion, speech) (8); Arts (GER) (3); English (GER) (6); English 201 or 202 (3); H&PE 150 (2); Math (GER) (6); Math 220 (3); Physics 209, 210, 261, 262 (8); Psychology 300 (3); Sociology 410 (3).
Pre-Optometry

Nearly all students admitted to professional programs in optometry have a baccalaureate degree. Because there are no schools of optometry in Louisiana, it is difficult to specify the admission requirements for the out-of-state schools. Therefore, students should obtain a catalog from the school(s) in which they are interested and adapt an existing degree program at Louisiana Tech. Nevertheless, the listing below gives some idea of the courses required by the three nearest optometry schools:

- Biological Sciences 130, 131, 132, 133, 214, 225, 227, 320, 321 (20); Chemistry 100, 101, 102, 103, 104, 250, 251, 252, 253, 254, 351 (19); English (GER) (6); Mathematics 101 or 111, 240 (6); Physics 209, 210, 261, 262 (8); Psychology 102 (3); Social Science Electives (6); Statistics (3).

The Graduate Program

Master of Science Degrees offered by the School of Biology are described in the graduate section of the University Bulletin.

Interdisciplinary Degree in Environmental Science

The environmental science program consists of a multi-disciplinary curriculum emphasizing pure and applied sciences, and the application of critical thinking to environmental problems. Participating academic units include agricultural sciences, biological sciences, chemical engineering, forestry, and geosciences. The curriculum incorporates twenty-two (22) hours of directed electives to allow students to obtain a minor in a specialized field of interest. Numerous minors are available at Louisiana Tech University; specific requirements for minors are identified in the departmental sections of the Bulletin.

This program allows students to focus on particular career interests such as assessment, policy, management, research, or occupational health and safety. A junior or senior internship or cooperative education experience is important in preparing students for a career in environmental science; thus students are ready for a wide range of employment opportunities. Potential employers are regulatory agencies, industrial firms, commercial laboratories, consulting firms, and environmental organizations. Graduates may also pursue enrollment in professional or graduate schools.

Environmental Science Curriculum (B.S.)

**Freshman Year**
- Environmental Science 200 .............................................................. 3
- Natural Sciences (GER)
  - Biological Sciences 130, 131, 132, 133 ................................. 8
  - Chemistry 100, 101, 102, 103, 104 ................................. 8
  - English (GER) ................................. 6
- Mathematics (GER)
  - Mathematics 111, 112 .............................................................. 6

**Sophomore Year**
- Biological Sciences 216, 217 .............................................................. 4
- Chemistry 121 .............................................................. 3
- Computer Literacy (GER) .............................................................. 3
- Humanities (GER)
  - English 303 .............................................................. 3
  - English (Literature) .............................................................. 3
- Arts (GER) .............................................................. 3
- Geology 111, 121 .............................................................. 4
- Social Sciences (GER)
  - Geography .............................................................. 3
  - Mathematics 220 .............................................................. 3

**Junior Year**
- Environmental Sciences 313 .............................................................. 3
- Biological Sciences 260 .............................................................. 4
- Chemistry 205 .............................................................. 4
- Environmental Sciences 477/478/479 (recommended)
  - or Special Problems .............................................................. 3

Environmental Science 310, 311 .............................................................. 4
- Social Sciences (GER) .............................................................. 3
- Political Science .............................................................. 3
- One other Social Sciences discipline .............................................................. 3
- Humanities
  - English 463 or Speech 110, 377 .............................................................. 3
- Statistics .............................................................. 3

**Senior Year**
- Environmental Science 444 .............................................................. 3
- Environmental Science 400, 458 .............................................................. 4
- Humanities (GER)
  - History .............................................................. 3
  - Directed Electives* .............................................................. 22

**Total Semester Hours** .............................................................. 122
*Students are expected to obtain a minor in an area of their choice; if students choose not to seek a minor, directed electives are selected from the following: Animal Science, Biology, Chemical Engineering, Chemistry, Environmental Science, Forestry, Geography, Geology, Physics, and Plant Science.

**Requirements for a Minor in Environmental Science**

Twenty-one hours course work to include Geology 111, Environmental Science 200, 310, 313, 417, 458, and three (3) hours of Biological Sciences, Chemistry, Environmental Science, Forestry, Geology, or Plant Science at the 300 level or above. All courses applied toward the minor must be completed with the grade of "C" or higher.

**School of Forestry**

**Mission:**

The mission of the School of Forestry is "To enhance the social, ecological, and economic value of forest resources for the citizens of Louisiana and the nation through professional education, basic and applied research, and service to the public and natural resource managers."

**The specific goals are to**

1. maintain an accredited undergraduate forestry education program,
2. maintain an undergraduate wildlife conservation education program, that meets certification requirements of The Wildlife Society,
3. conduct research relevant to enhancing Louisiana’s forestlands and associated natural resources, and
4. conduct continuing education and service activities to meet the needs of Louisiana’s forest landowners.

**Degree Programs**

The School of Forestry offers two degree programs. One leads to a Bachelor of Science in Forestry (BSF) and the other to a Bachelor of Science in Wildlife Conservation (BS). The Forestry curriculum is designed for students who desire scientific knowledge of conservation and management of forestry resources, such as timber inventory, site productivity, resource protection, and many other activities carried out in the production of wood and wood fiber. The Wildlife Conservation curriculum is designed for students who desire scientific knowledge of the conservation and management of wildlife. This curriculum emphasizes the life history, habitat relationships, and habitat management of wildlife species and communities. Students are trained as managers, naturalists, and researchers through course work and practical experience with wildlife professionals.
Students are encouraged to complete at least one internship (on-the-job experience) during their course of study. The Forestry curriculum requires that students complete individual professional courses (Forestry prefix) with a minimum grade of "C" and maintain a minimum grade point average of 2.0 on all courses taken. The Wildlife Conservation curriculum requires that students complete individual professional courses (Forestry and Biological Sciences prefixes) with a minimum grade of "C" and maintain a minimum grade point average of 2.0 on all courses taken.

The Forestry degree program is accredited by the Society of American Foresters (SAF), an association representing 17,000 forestry professionals in the United States. The Society is recognized by the Council on Postsecondary Accreditation and the U.S. Department of Education as the accrediting body for forestry in the United States. Graduating seniors are expected to pass the Registered Foresters Exam offered by The Mississippi Board of Registration for Foresters or similar competency exam. The Wildlife Conservation degree program meets the certification requirements of The Wildlife Society, and graduates may apply for certification as an Associate Wildlife Biologist.

Field Session
Successful completion of the Forestry Field Session during the junior year is a prerequisite for senior standing. Students who have completed all prerequisites, including all 100 level courses, FOR 205, 206, 301 (or BSCI 313), 302, 306, 405, MATH 212, and have at least an overall "C" average are eligible to enroll. Field Session students are also required to meet the conditions as outlined in the Forestry Field Session Academic and Operating Policies document which is available from the School of Forestry upon request.

Field Trips
During the junior and senior years, field trips are made to forest production areas, wood-using plants, and wildlife management areas. These enable students to observe forestry, wildlife management, research, and wood-using activities of private companies and government agencies. Many of the important forest types and management activities, as well as a wide variety of wood-using industries, are located near campus.

Expenses
Field trips cannot always be arranged within the scheduled laboratory hours. In some cases, students must leave the campus earlier and return later than the published class schedule. The payment for meals and lodging when overnight trips are necessary are the responsibility of the individual student. This includes the field session. In addition to regular expenses, a special fee is charged each student who attends the field sessions.

Each student registering for any forestry or biological sciences course involving field laboratory work should have, for self-protection, an accident insurance policy. Policies are available during registration to all students for a reasonable cost. A number of student assistants are employed by the School each year. This enables the students to work part-time while attending school.

Transfer Credit
Students may complete 60 semester hours of the forestry or the wildlife conservation major at regionally accredited institutions. However, transfer credit will only be accepted for courses completed with a "C" or higher grade and must be approved during the student’s first quarter at Tech.

The professional core courses in forestry and wildlife conservation must be completed at Louisiana Tech University.

Students who are considering transfer to the School of Forestry should contact the Director's Office, School of Forestry, prior to enrollment at other institutions.

Forestry Curriculum (B.S.F.)

Freshman Year

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<tr>
<th>Natural Sciences (GER)</th>
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<td>Social Sciences (GER)</td>
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<td>Economics 201, 202, or 215</td>
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<td>Two other Social Sciences courses</td>
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<td>Mathematics (GER)*</td>
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<td>Elective</td>
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Sophomore Year

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<td>Chemistry 120, 121, 122 or Chemistry 100, 101, 102, 103, 104</td>
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<td>History</td>
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Junior Year

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<td>English 303</td>
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Senior Year

| Forestry 322, 401, 402, 404, 406, 410, 413, 425 | 22 |
| Humanities (GER) | 3 |
| Speech 110 or 377, or English 463 | 3 |
| Electives | 7 |
| ** | 32 |

Total Semester Hours 125

(GER): General Education Requirements

*Mathematics must be one of the following:
1. Math 101 and Math 212, or
2. Math 112 and Math 220, or
3. Math 112 and Math 222

**Statistics Elective: AGSC 320, QA 233, PSYC 300, or STAT 200

Wildlife Conservation Curriculum (B.S.)

Freshman Year

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<td>Biological Sciences 130, 131, 132, 133</td>
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<td>Forestry 101</td>
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<tr>
<td>Social Sciences * (GER)</td>
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<td>**</td>
<td>31</td>
</tr>
</tbody>
</table>

Sophomore Year

| Biological Sciences 200 or 310 | 3 |
| Forestry 205, 206 | 3 |
| Humanities (GER) | 3 |
| English 201 or 202 | 3 |
| History | 3 |
| Speech 110 or 377 | 3 |
| Social Sciences * (GER) | 6 |
| Arts (GER) | 3 |
Requirements for a Minor in Wildlife Conservation:

Science:

Requir ements for a Minor in Geographic Information of “C” or higher.

Intermediate Geograp hic Information Systems.

methods course from the following: AGSC 320, QA 233, STAT 200,

The course, and mastery of course material is validated by

course is the same in content, the student earned at least a “C” in

which the student earned at least a “C” can be transferred. Credit

regionally accredited college will be evaluated to determine

Management faculty will determine placement in the curriculum

related to the research, planning, provision, and evaluation of

disseminate information, and manage information resources

Students seeking information concerning admission to the

following the second HIM course grade below a “C.”

Students must earn a “C” in prerequisite courses, achieve a minimum GPA of 2.25 in the curriculum, and have the approval of the committee of HIM faculty. In addition to regular University fees, students beginning directed practice must provide name pins and their own transportation. The quarter preceding graduation is spent at off-campus affiliated sites where the student will gain experience in a variety of health care organizations. The course number in which the student enrols will be determined by the geographic location of the clinical sites from Louisiana Tech University: 100 miles, 101-200 miles, and over 200 miles. These experiences may be clustered in the north Louisiana area. There are additional sites in other cities in Louisiana, Texas, Mississippi, Arkansas, and other states for students who are able to spend a period of time in another area. Each student’s professional practice experience is individually planned with the student to fulfill the educational requirements within the student’s financial and travel limitations. These professional practice experiences will be scheduled for students who have

1. completed all course work on-campus
2. have no grades in required courses in the curriculum less than a “C.”
3. have a curriculum GPA of no less than 2.25.
4. and have an overall GPA of no less than 2.0.

A student’s professional practice experience will be terminated for inappropriate professional behavior and lack of adherence to ethical standards. The student who terminates a professional practice experience without permission from the HIM professional practice coordinator and the professional practice site will not be scheduled for further professional practice experiences.

If a student wishes to enroll in a professional practice course after a lapse of more than three quarters since completion of the prerequisite courses, a committee of HIM faculty will determine whether remedial course work is necessary before placing the student in professional practice.

Louisiana Tech offers Health Information Technology graduates the opportunity to progress towards the four year degree. This is done by attending video compressed classes and participating in internet classes. Students are required to have an associate degree in HIT and possess RHIT credentials obtained within the last three years. Progression students must complete all junior and senior classes. A minimum of 2.0 grade point average and 122 semester hours are required to receive the B.S. in Health Information Administration.

Students must earn a “C” in all required courses before being eligible for graduation from the program. A HIM student may repeat only one HIM course, elective or required. The student will be permanently suspended from the HIM programs following the second HIM course grade below a “C.”

Students seeking information concerning admission to the Health Information Management programs may contact the Health Information Management Department, P.O. Box 3171, Louisiana Tech University, Ruston, LA 71272.
Health Information Technology

The associate degree curriculum emphasizes the technical component of providing a variety of health information services.

The Health Information Technology (HIT) program requires six quarters of study on campus plus one quarter off campus at professional practice sites.

Students must complete certain courses in a specified sequence in order to complete their studies within the two-year time frame. Therefore it is very important that first-year students develop a plan of study with their assigned advisor. This plan of study will be placed on file in the Department of Health Information Management office before or during registration for the Winter Quarter. Failure to develop a curriculum plan with the advisor and to follow the plan could prolong the course of study.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs in cooperation with the Council on Accreditation of the American Health Information Management Association. Graduates of the program are eligible to apply to write the accreditation examination of the American Health Information Management Association. Graduates who pass this examination may use the credential, RHIT, Registered Health Information Technician. The two-year program leads to the Associate of Science degree.

Health Information Technology Curriculum (A.S.H.I.)

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English (GER)</td>
<td>................................................... 6</td>
</tr>
<tr>
<td>Health Information Management 103, 107, 108, 115, 120, 280</td>
<td>14</td>
</tr>
<tr>
<td>Mathematics (GER)</td>
<td></td>
</tr>
<tr>
<td>Mathematics 101</td>
<td>................................................ 3</td>
</tr>
<tr>
<td>Statistics 200</td>
<td>.................................................... 3</td>
</tr>
<tr>
<td>Biological Sciences 225, 227</td>
<td>............................................. 6</td>
</tr>
<tr>
<td>Computer Literacy (GER)</td>
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</tr>
<tr>
<td>Computer Information Systems 201</td>
<td>............................................. 3</td>
</tr>
<tr>
<td>Total Semester Hours</td>
<td>............................................ 35</td>
</tr>
</tbody>
</table>

Sophomore Year

| Health Information Management 200, 207, 208, 217, 218, 219, 224, 226, 228, 229, 234, 235, 277/278/279 | 31 |
| Management 470 | ........................................... 3 |
| Total Semester Hours | ............................................. 34 |

Total Semester Hours .......................................................... 69

(GER): General Education Requirements (pg. 29)

Health Information Administration

The baccalaureate degree curriculum emphasizes the development of skills for the management of health-related information and the systems used to collect, store, retrieve, disseminate, and communicate information for the support of enterprise operations and clinical and business decision making in health care or related organizations.

The Health Information Administration (HIA) program requires twelve quarters of study on-campus plus one quarter off-campus at professional practice sites.

The Health Information Administration program received the Louisiana State Board of Regents’ Commendation of Excellence, the highest recognition awarded to an academic program by this group.

The program is accredited by the Commission on Accreditation of Allied Health Programs in cooperation with the Council on Accreditation of the American Health Information Management Association. Graduates of the program are eligible to apply to write the registration examination of the American Health Information Management Association. Graduates who pass this examination may use the credential, RHIA, Registered Health Information Administrator. This program leads to the Bachelor of Science Degree.

Health Information Administration Curriculum (B.S.H.I.)

<table>
<thead>
<tr>
<th>Freshman Year</th>
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</thead>
<tbody>
<tr>
<td>English (GER)</td>
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<tr>
<td>Mathematics (GER)</td>
<td></td>
</tr>
<tr>
<td>Mathematics 101, 125</td>
<td>................................................... 6</td>
</tr>
<tr>
<td>Computer Literacy (GER)</td>
<td></td>
</tr>
<tr>
<td>Computer Information Systems 201</td>
<td>............................................. 3</td>
</tr>
<tr>
<td>Natural Sciences (GER)</td>
<td></td>
</tr>
<tr>
<td>Biological Sciences 225, 227</td>
<td>............................................. 6</td>
</tr>
<tr>
<td>Health Information Management 103, 107, 108, 115, 120</td>
<td>............................................. 11</td>
</tr>
<tr>
<td>Total Semester Hours</td>
<td>............................................. 32</td>
</tr>
</tbody>
</table>

Sophomore Year

| Natural Sciences (GER) |                               |
| Chemistry 120 | ............................................. 3 |
| Health Information Management 200, 207, 208, 217, 218, 219, 224, 226, 228, 234, 280 | ............................................. 24 |
| Social Science (GER) |                                       |
| Sociology 201 | ............................................. 3 |
| Social Sciences Elective* | ............................................. 3 |
| Management 310 | ............................................. 3 |
| Total Semester Hours | ............................................. 33 |

Junior Year

| Humanities (GER) |                            |
| English 201, 202 | ................................................... 6 |
| Speech 110 or 377 | ................................................... 3 |
| Health Information Management 312, 318, 319, 330 | ............................................. 10 |
| Social Sciences (GER) |                                      |
| Sociology 201 | ............................................. 3 |
| Management 310 | ............................................. 3 |
| Total Semester Hours | ............................................. 28 |

Senior Year

| Arts (GER) | ................................................... 3 |
| Humanities (GER) |                                      |
| History | ................................................... 3 |
| Clinical Laboratory Science 450 | ............................................. 3 |
| Health Information Management 417, 418, 425, 430, 431, 477/478/479 | ............................................. 18 |
| Management 470 | ............................................. 3 |
| Total Semester Hours | ............................................. 30 |

Total Semester Hours .......................................................... 123

(GER): General Education Requirements (pg. 29)

*Economics, geography, political science, advanced psychology, or advanced sociology

School of Human Ecology

Mission

Degree programs offered by the School of Human Ecology include: BA in Merchandising and Consumer Affairs; BS in Family, Infancy, and Early Childhood Education; BS in Nutrition and Dietetics; MS in Family and Consumer Sciences; and MS in Nutrition and Dietetics. A post-baccalaureate non-degree dietetic internship also is offered.

The mission of the School of Human Ecology is to improve the quality of life for individuals and families through education and applied research that emphasizes family systems and consumer sciences. This mission provides the foundation for strong broad-based undergraduate programs and specialized graduate programs that emphasize quality of life, management skills, and the importance of family systems in their historical and contemporary forms.

This mission is implemented through instruction, research, and service which involves

- implementing undergraduate and graduate human ecology curricula that reflect current trends from the rapidly changing and complex professional
environments that are designed to expand students' knowledge of the field, stimulate intellectual curiosity, cultivate original thought and expression, and enhance problem-solving skills,

- contributing to current knowledge through research in human ecology specialized areas, and
- providing professional expertise to other professionals, the university community, and the community-at-large.

Accreditation

Programs in human ecology are planned to meet the highest professional standards. The School of Human Ecology undergraduate programs are accredited by the Council for Accreditation of the American Association of Family and Consumer Sciences. The Nutrition and Dietetics undergraduate curriculum (DPD) is approved by the American Dietetic Association and the Dietetic Internship is accredited. Additionally, the teacher preparation programs are in the University accreditation by the National Council for Accreditation of Teacher Education and meet state certification standards. The Early Childhood Education Center is accredited by the National Academy of Early Childhood Programs.

Upper Division Requirements

Students in nutrition and dietetics must apply for admission to the upper division specialized phase of the program before their junior year. To be admitted, students are required to have completed 54 hours with a minimum of 35 hours of knowledge requirement courses and have a KR grade point average of 2.85 and no grade less than a “C.” KR or knowledge requirement courses are those in which students achieve the core knowledge requirements for entry-level dietitians as specified by the American Dietetic Association (see your advisor or the Director of the School of Human Ecology for additional information).

Scholastic Standards

All students are advised to repeat human ecology courses in which they have grades less than "C" before undertaking the next course of the subject matter series. Students enrolled in the family studies and child life concentrations must earn a “C” or better in all FCS courses in order to meet requirements for graduation. For teacher certification, a grade of "C" or better is required in all human ecology and professional education courses. A grade point average of 2.5 is required for enrollment in student teaching at both the secondary and early childhood levels. A grade point average of 2.5 and acceptable scores on the PRAX-PLT and Early Childhood Education or Family Consumer Sciences specialty exams are required for graduation in the family and consumer sciences education and early childhood education concentrations.

Satisfactory completion of prerequisite courses and a “knowledge requirement” grade point average of 2.85 are required for admission to the junior year of the nutrition and dietetics program. A 2.85 “knowledge requirement” grade point average is required for graduation from this curriculum.

Catalog Requirements and Changes

Human ecology policy, curriculum, and course changes are posted on the bulletin board near the director's office (CHT 251). Posted notices officially update the University bulletins and are as binding to students as the published documents. In addition, job and scholarship announcements, test dates, and planned course schedule changes are displayed. Students are advised to check the boards frequently.

Each student is responsible for meeting curriculum and catalog requirements for graduation, including scheduling of infrequently offered courses and completing courses in sequence. Students should consult with their advisors during early registration and when problems arise. Students with 60-70 hours credit should complete and secure advisor's approval of an up-to-date plan of study for their remaining quarters at Tech.

Non-Major Electives

A number of courses in human ecology are open to non-majors. Suggested electives for students in other colleges include the following:

Family and Child Studies Electives:

100, Marriage and Family Relations; 101, Skills for Marriage; 200, Parenting; 201, Introduction to Child and Family Development; 210, Family Interpersonal Relationships; 301, Early Childhood Development; 320, Family Theory; 331, Infant Development; 341, Issues and Applications in Middle Childhood & Early Adolescence; 380, Understanding Childhood Diseases and Disorders; 395, Research Methods in Family & Child Studies; 400, Contemporary Family Issues; 410, Multi-Cultural Family Studies; 432, Children Under Stress; 435, Family Coping; 447, Issues in Gerontology; 461, Administration of Early Childhood Education/Child Life Programs; 471, The Family and the Legal System; 490, Perspectives in Family and Child Studies.

Merchandising & Consumer Studies Electives:

118, Pattern Design and Construction; 219, Textiles; 238, Apparel Selection; 246 Microcomputers in Personal and Family Management; 256, Individual and Family Management; 268, Apparel Design I; 308, Buying; 366, Consumer Issues; 416, Interior Space Planning and Furnishings; 426, Housing Policy; 439, Historic Costume I; 440, Historic Costume II; 456, Consumer Decision Making; 498, Field Study Tour in MCS.
Food and Nutrition Electives:
103, Nutrition and Weight Control; 203, Human Nutrition; 220; Life Cycle Nutrition; 223, Nutrition Education; 232, Basic Food Science; 253, Sports Nutrition; 403, Community Nutrition.

Requirements for a Minor in Merchandising
A minimum of 21 hours with at least 9 hours at the 300 level or above to be selected from: Merchandising & Consumer Studies 108, 118, 219, 238, 258, 268, 308, 348, 429, 439, 440, 466, 488, 498; Human Ecology 477, 478, or 479. All courses applied toward the minor must be completed with the grade of “C” or higher.

Requirements for a Minor in Consumer Affairs
A minimum of 21 hours to be selected from: Merchandising & Consumer Studies 108, 256, 258, 366, 426, 456, 466, 498; Human Ecology 327, and 477 or 478 or 479; Family & Child Studies 441, 447, 471. All courses applied toward the minor must be completed with the grade of “C” or higher.

Requirements for a Minor in Family and Child Studies
Required courses include Family and Child Studies 201 and 210. A minimum of 15 semester hours should be selected from the following: Family and Child Studies 100, 200, 277, 301, 320, 331, 400, 410, 420, 432, 435, 441, 447, 451, or 471. At least twelve hours must be 300 level or above. All courses applied toward the minor must be completed with the grade of “C” or higher.

Requirements for a Minor in Human Nutrition
Required courses in Food and Nutrition include: Food and Nutrition 103, 203, 253, 402, 404, 414, 423, 443. All courses applied toward the minor must be completed with the grade of “C” or higher.

Requirements for an Interdisciplinary Minor in Gerontology
(24 semester hours - at least 10 hours must be from courses 300 level or above.)
Core Courses (15 semester hours)
Family and Child Studies 201- Family and Child Development OR Psychology 408 - Human Growth and Development (3); Health & Physical Education 406 - Health Aspects of Aging (3); Sociology 435 - Sociology of Aging (3); Family and Child Studies 447 - Issues in Gerontology (3); Practica - Education 420; Health & Physical Education 112; Human Ecology 467, 477, 478, or 479; or Sociology Practica (3).
Electives (9 semester hours)
Select 9 hours from the courses listed below. Courses selected must be approved by your advisor. It is strongly suggested that ALL students elect either Psychology 475 or Sociology 436 that relate to death and grieving: Counseling 400; Family and Child Studies 210, 320, 400, 420; Food and Nutrition 203; Health & Physical Education 292, 401, 416; Psychology 474, Psychology 475, 480, 499; Sociology 308, 425, 436. All courses applied toward the minor must be completed with the grade of “C” or higher.

Merchandising and Consumer Affairs
Students complete a freshman core of courses and then select a concentration in merchandising or consumer affairs. The consumer affairs concentration prepares students for the global aspects of their fields. Travel-study programs provide students opportunities to study the global aspects of their fields.

Merchandising and Consumer Affairs Curriculum (B.A.)

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>English (GER)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (GER)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 101</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 112, 125, or Statistics 200</td>
<td>3</td>
</tr>
<tr>
<td>Merchandising &amp; Consumer Studies 108, 246, 256</td>
<td>8</td>
</tr>
<tr>
<td>Natural Sciences (GER)</td>
<td>9</td>
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<tr>
<td>Humanities (GER)</td>
<td>3</td>
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<tr>
<td>Speech 110</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>32</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Accounting 201</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences (GER)</td>
<td>3</td>
</tr>
<tr>
<td>Economics 215</td>
<td>3</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Additional Social Sciences Course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (GER)</td>
<td>3</td>
</tr>
<tr>
<td>English 201 or 202</td>
<td>3</td>
</tr>
<tr>
<td>Additional Humanities Course</td>
<td>3</td>
</tr>
<tr>
<td>Family &amp; Child Studies 201</td>
<td>3</td>
</tr>
<tr>
<td>Merchandising &amp; Consumer Studies 258</td>
<td>3</td>
</tr>
<tr>
<td>Directed Electives**</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Junior Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts (GER)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (GER)</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>3</td>
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<tr>
<td>Human Ecology 327, 398</td>
<td>4</td>
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<tr>
<td>Marketing 300, 420</td>
<td>6</td>
</tr>
<tr>
<td>Directed Electives**</td>
<td>14</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Senior Year</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Electives</td>
<td>6</td>
</tr>
<tr>
<td>Human Ecology 457</td>
<td>1</td>
</tr>
<tr>
<td>Human Ecology /Merchandising &amp; Consumer Studies Elective</td>
<td>3</td>
</tr>
<tr>
<td>Human Ecology Practic or Merchandising &amp; Consumer Studies 498</td>
<td>3</td>
</tr>
<tr>
<td>Journalism 450</td>
<td>3</td>
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<tr>
<td>Merchandising &amp; Consumer Studies 466</td>
<td>3</td>
</tr>
<tr>
<td>Directed Electives**</td>
<td>9</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>28</td>
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</table>

Total Semester Hours ..................................................................................120

(GER): General Education Requirements (pg. 29)

*Curriculum sheets for both concentrations are available in the Office of the Director of the School of Human Ecology (CTH 251).
**Directed Electives chosen by student in consultation with advisor from one of the following concentrations:

Merchandising Concentration Directed Electives

<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Merchandising &amp; Consumer Studies 219, 238</td>
<td>12</td>
</tr>
<tr>
<td>Junior Year</td>
<td>11</td>
</tr>
<tr>
<td>Merchandising &amp; Consumer Studies 268, 308, 348</td>
<td>10</td>
</tr>
<tr>
<td>Management 470; Senior Year</td>
<td>12</td>
</tr>
<tr>
<td>Merchandising &amp; Consumer Studies 416, 488, 439 or 440; Marketing 435</td>
<td>12</td>
</tr>
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</table>

Consumer Affairs Concentration Directed Electives

<table>
<thead>
<tr>
<th>Sophomore Year</th>
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</thead>
<tbody>
<tr>
<td>Accounting 202; Business Law 255; Junior Year</td>
<td>11</td>
</tr>
<tr>
<td>Family &amp; Child Studies 447; Merchandising &amp; Consumer Studies 426; Free Electives (2 hours); Management 310; Senior Year</td>
<td>12</td>
</tr>
<tr>
<td>Family &amp; Child Studies 441; Finance 318; Merchandising &amp; Consumer Studies 456; Human Ecology electives (3 hours)</td>
<td>12</td>
</tr>
</tbody>
</table>

Family and Child Studies

Students complete a freshman core of courses and then select a concentration. Early childhood education and family and consumer sciences education are teacher preparation programs that are developed and maintained through the joint activities of the College of Applied and Natural Sciences and Louisiana Tech University Teacher Education Council. Early childhood
Family and Consumer Sciences Education prepares the student to teach in public school early childhood education and kindergarten programs and for careers with young children in centers for children and related programs. Family and consumer sciences education prepares a student to teach vocational family and consumer sciences in Louisiana secondary schools under the provision of the federal Education Amendments of 1976 as outlined in the state plan.

Child life prepares students to become child life specialists primarily in hospital settings. Family sciences prepares students for a variety of human services positions including community support; counseling and youth agencies; law or public policy; business development officers; and employee assistance directors.

Family and Child Studies Curriculum (B.S.)*

Freshman Year
English (GER) .................................................................6
Family & Child Studies 201 .............................................3
Mathematics (GER)
  Mathematics 101 .........................................................3
  Mathematics 111, 125 or Statistics 200 ......................3
Merchandising & Consumer Studies 246 .....................3
Natural Sciences (GER)
  Biological Science .........................................................3
Humanities (GER)
  History ........................................................................3
  Speech 110 or 377 ........................................................3
Directed Electives** .........................................................2-3

Sophomore Year
English .................................................................6
Merchandising & Consumer Studies 256 .....................3
Social Sciences (GER)
  Psychology ...............................................................3-6
  Additional Social Sciences Courses .........................3-6
Directed Electives** .........................................................9-14

Junior Year
Arts (GER) ...............................................................3
Human Ecology 398 .........................................................1
Restricted Electives .......................................................0-6
Directed Electives** .........................................................21-31

Senior Year
Family & Child Studies 410 ..........................................3
Human Ecology 457 .........................................................1
Restricted Electives .......................................................0-11
Directed Electives** .........................................................18-24

Total Semester Hours ......................................................122-125

(GER): General Education Requirements (pg. 29)
*Detailed curriculum sheets for each concentration are available in the School of Human Ecology Director’s Office (CHT 251).
**Directed Electives chosen by student in consultation with advisor from one of the following concentrations:

Early Childhood Education Concentration Directed Electives
Freshman Year: (2 hours) Health & Physical Education 150. Sophomore Year: (12 hours) Education 125; Family & Child Studies 276, 277; Health & Physical Education Activity (1); Library Science 201 or 450; Music (2). Junior Year: (3 hours) Education 423, 424, 441; Family & Child Studies 301, 311, 321, 331, 361; Health & Physical Education Activity (2); Science Bio/Phsy; Special Education 300. Senior Year: (22 hours) Education 420, 475; Family & Child Studies 401, 421, 461; Food & Nutrition 223; Humanities (GER) History 460 or Geography 310; Natural Sciences (GER) (3).

Child Life Concentration Directed Electives
Freshman Year: (3 hours) Family & Child Studies 210. Sophomore Year: (10 hours) Family & Child Studies 280, 291; Human Ecology Practica (1); Health Information Management 103. Junior Year: (22 hours) Electives (3) Family & Child Studies 301, 320, 331, 347, 355, 361; Human Ecology Practica (2); Senior Year: (24 hours) Family & Child Studies 380, 395, 432, 451; Family & Child Studies Elective (6); Human Ecology Practica (3); Natural Sciences (GER) (3).

Family Sciences Concentration Directed Electives
Freshman Year: (3 hours) Family & Child Studies 210. Sophomore Year: (12 hours) Family & Child Studies 100, 101, 200; Natural Sciences (GER) (3). Junior Year: (21 hours) Family & Child Studies 301 or 331 or 341, and 320, 355, and 395; Family & Child Studies Electives (6); Human Ecology Practica (3); Senior Year: (24 hours) Elective (3); Family & Child Studies 400, 420, 435, 447, 471; Human Ecology Practica (3); Social Sciences (GER) (3).

Family & Consumer Sciences Education Concentration Directed Electives
Freshman Year: (2 hours) Education 125; Human Ecology 267A (1). Sophomore Year: (9 hours) Family & Child Studies 200; Food & Nutrition 220; Merchandising & Consumer Affairs 219. Junior Year: (24 hours) Education 403, 471; Family & Child Studies 341; Food & Nutrition 232; Merchandising & Consumer Studies 426, 366; Natural Sciences (GER) (3); Special Education 300; Senior Year: (18 hours) Education 416; Human Ecology 327, 405, 415.

Applied Child Development Concentration Directed Electives
Freshman Year: (3 hours) Family & Child Studies 210. Sophomore Year: (14 hours) Elective (3); Family & Child Studies 100, 200; Food & Nutrition 223; Natural Sciences (GER) (3). Junior Year: (21 hours) Family & Child Studies 277, 301, 320, 331, 341; Human Ecology Practica (3); Social Science (GER) (3). Senior Year: (23 hours) Family & Child Studies 361, 395, 400, 432, 451; Family & Child Studies Electives (6); Human Ecology Practica (3).

Nutrition and Dietetics

Programs in dietetics include an undergraduate didactic program, a post-baccalaureate internship, and a graduate program. The undergraduate didactic program provides learning experiences that enable students to master the knowledge requirements needed for entry-level practice. Mastery of course content in the didactic program and successful completion of the internship are required for meeting The American Dietetic Association eligibility requirements to write the Registration Examination for Dietitians. The internship and graduate programs are described in detail in the graduate program section of the University Bulletin. The Louisiana State Board of Examiners in Dietetics and Nutrition will disapprove the application for licensure if the applicant has been convicted of a felony.

The undergraduate didactic and internship programs are generalist programs. Graduates of these programs are prepared to assume positions in health care facilities such as hospitals and community health centers as well as management positions in food service systems.

Nutrition and Dietetics Curriculum (B.S.)

Freshman Year
Natural Sciences (GER)
  Chemistry 120, 121, 122 ........................................7
  English (GER) .................................................................6
  Humanities (GER)
    English 201 or 202 ................................................3
  Social Sciences (GER)
    Sociology 201 ...........................................................3
  Family & Child Studies 201 ........................................3
  Food & Nutrition Elective .............................................3
    Food & Nutrition 103 ..................................................1
  Mathematics (GER)
    Mathematics 101 .....................................................3
Master of Science Degrees offered by the School of Human Ecology are described in the graduate section of the University Bulletin.

The Dietetics Internship (DI) is described in the graduate section of the University Bulletin.

### Dietetics Internship (DI)

The Dietetics Internship is described in the graduate section of the University Bulletin.

### The Graduate Program

Master of Science Degrees offered by the School of Human Ecology are described in the graduate section of the University Bulletin.

#### Division of Nursing

The purpose of the Division of Nursing is to prepare graduates, with an Associate of Science Degree in Nursing, to function as beginning practitioners of nursing, thus affording unique benefits in meeting the health care needs of the community. The graduate will, also, upon completion of the prescribed program, be eligible to sit for the examination required for state licensure as registered nurses. THE LOUISIANA STATE BOARD OF NURSING RESERVES THE RIGHT TO DENY A GRADUATE ADMISSION TO SIT FOR THE R.N. LICENSING EXAM IF HE/SHE HAS EVER BEEN ARRESTED, CHARGED WITH, CONVICTED OF, PLED GUILTY OR NO CONTEST TO, OR BEEN SENTENCED FOR ANY CRIMINAL OFFENSE.

The Division of Nursing is approved by the Louisiana State Board of Nursing and accredited by the National League for Nursing Accreditation Commission.

**Admission** to the Division of Nursing is based upon the following criteria established by the Admission Committee, Division of Nursing:

- Acceptable scores on the ACT.
- Grade point average of 2.6 or better from high school or college.
- Three (3) Letters of Reference
- Evidence of LPN Licensure (if applicable)
- Pre-Nursing and Guidance examination (Given four times a year on Tech campus)
- COPS Interest Test
- Indication of emotion stability, character, personality, maturity, and interest in nursing as determined by a personal interview.

After the student has been accepted into the nursing program, an annual physical examination is required. A chest x-ray and Hepatitis B vaccine are required upon admission to the first nursing course along with current CPR certification. Students who hold or have held licensure in any health care discipline and who have or have had disciplinary action against such license; students who have ever been arrested, charged with, convicted of, pled guilty or no contest to, or been sentenced for any criminal offense; student who have habitually used or been diagnosed as addicted to drugs or alcohol; and students who have any physical or mental impairment which may affect their ability to practice safely as a registered nurse, shall petition the Louisiana Board of Nursing for review and action regarding their right to practice as student of nursing in Louisiana prior to entry into the first clinical course. Nursing students must be able to meet the Division of Nursing published Core Performance Standards (copy available in Nursing Office).

**Applicants for readmission and transfer students** must meet admission and progression criteria at the time of application. If more than 3 quarters have elapsed since the student was enrolled in a nursing course, an application to be readmitted must be approved by the Admission Committee.

All transfer students must provide a syllabus and course description for all courses for which transfer credit is desired. They must also submit a letter of reference from a faculty member of the school of nursing previously attended.

Nursing students must be covered by professional liability and accident insurance prior to registering for any nursing course.

In addition to the regular University fees, cost for uniforms, supplies, and equipment including books required in nursing program is approximately $600 annually.

Students must achieve a minimum grade of "C" in each nursing and nursing-related course to progress from one sequentially designed nursing course to the next. A nursing course may be repeated only one time.

Upon successful completion of all course requirements, the student is eligible for graduation with an Associate of Science Degree.

### Nursing Curriculum (A.S.N.)

#### Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing 109, 110, 112, 114</td>
<td>15</td>
</tr>
<tr>
<td>Biological Sciences 214, 225, 226, 227</td>
<td>11</td>
</tr>
<tr>
<td>Mathematics (GER)</td>
<td>3</td>
</tr>
<tr>
<td>English (GER)</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 102</td>
<td>3</td>
</tr>
<tr>
<td>University Seminar 100**</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>123</strong></td>
</tr>
</tbody>
</table>

#### Summer Quarter

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing 116</td>
<td>5</td>
</tr>
</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing 210, 212, 214, 216</td>
<td>18</td>
</tr>
<tr>
<td>Psychology 408</td>
<td>3</td>
</tr>
</tbody>
</table>
Listed below are general academic course requirements for the Pre-Nursing course work. These courses meet core curriculum requirements for baccalaureate degrees in Louisiana. The student is advised to contact the school of nursing to which he/she will be transferring for any specific course requirements of that program.

**Pre-Nursing**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (GER)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (GER)</td>
<td></td>
</tr>
<tr>
<td>Mathematics 101 or 111</td>
<td>3</td>
</tr>
<tr>
<td>Statistics 200</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences (GER)</td>
<td></td>
</tr>
<tr>
<td>Biological Sciences 214, 225, 226, 227, 228</td>
<td>12</td>
</tr>
<tr>
<td>Chemistry 120, 121</td>
<td>6</td>
</tr>
<tr>
<td>Arts (GER)</td>
<td>3</td>
</tr>
<tr>
<td>Humanities (GER)</td>
<td></td>
</tr>
<tr>
<td>English 201 or 202</td>
<td>3</td>
</tr>
<tr>
<td>History 201 and 202 or Foreign Language (above 100-level)</td>
<td>6</td>
</tr>
<tr>
<td>Speech 110</td>
<td>3</td>
</tr>
<tr>
<td>Social Sciences (GER)</td>
<td></td>
</tr>
<tr>
<td>Economics 215</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 102</td>
<td>3</td>
</tr>
<tr>
<td>Sociology 201</td>
<td>3</td>
</tr>
<tr>
<td>Psychology 408, 418</td>
<td>6</td>
</tr>
<tr>
<td>Food &amp; Nutrition 201</td>
<td>3</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>63</td>
</tr>
</tbody>
</table>

After completing the above curriculum the student may transfer to a four-year nursing program to complete the requirements for the baccalaureate degree in nursing.

**Accelerated (Extension) Program**

The Division of Nursing provides an opportunity for licensed practical nurses that wish to pursue the Associate of Science Degree in Nursing through the Extension Program (Accelerated Learning) at Glenwood Regional Medical Center in West Monroe, Louisiana. Graduates in nursing from state-approved practical nurse educational programs who are currently licensed to practice, have had one year of clinical experience, and meet the admission criteria may be admitted.

After successful completion of Nursing 113, which is offered Spring Quarter only, the student is eligible for advanced placement in the nursing curriculum. An extension student who is unsuccessful in Nursing 113 may take Nursing 109, 110, and 112 on the Ruston campus. Subsequent failure in any one of these courses prohibits progression.

Concurrently, it is required that each student successfully completes 17 credit hours of required general academic courses. The total course work for Extension students follows.

**Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Seminar 100 (Sec. 90)**</td>
<td></td>
</tr>
<tr>
<td>(Prerequisite for Nursing 113)</td>
<td>1</td>
</tr>
<tr>
<td>Biological Sciences 214*, 225*, 226*, 227*</td>
<td>11</td>
</tr>
<tr>
<td>Psychology 102*, 408*</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics (GER)</td>
<td>6</td>
</tr>
<tr>
<td>English (GER)</td>
<td>6</td>
</tr>
<tr>
<td>Nursing 113, 114, 116, 210, 212, 214, 216</td>
<td>38</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>68</td>
</tr>
</tbody>
</table>