The research, teaching, extension, and regulatory functions of the College of Agriculture are combined into a coordinated, mutually supporting program of undergraduate and graduate education. Teaching in this college is closely related to the other functions thus providing the student with a unique opportunity to broaden his or her background in the areas of research and application of scientific findings to stakeholders.

Degree and study programs in the college run the entire range of the food, fiber, and agricultural system from farm production and marketing, manufacturing, processing and fabrication through nutrition, hospitality management, and consumer, community, and family studies.

On July 1, 2003, the School of Human Environmental Sciences joined the College of Agriculture. Degree requirements and information pertaining to these programs are listed beginning on page 86.

Admission

All students planning to study any phase of agriculture or human environmental sciences, including forestry and pre-veterinary medicine, are admitted directly into the College of Agriculture. Application for admission is made through the Undergraduate Admissions Office.

Students interested in the Landscape Architecture program must meet all requirements for admission to the University. In addition, enrollment in the landscape architecture program is determined by a selective admission procedure. Applicants are selected on a competitive basis as determined by potential success in the program.

Accreditation

The undergraduate Forestry program at the University of Kentucky is accredited by the Society of American Foresters. The Landscape Architecture program is accredited by the American Society of Landscape Architects and meets all the requirements for licensing of landscape architects in Kentucky and other states. The Food Science program is accredited by the Institute of Food Technologists.

Accreditations for the School of Human Environmental Sciences are listed on pages 86-87 of this Bulletin.

Undergraduate Programs in Agriculture

The University of Kentucky grants the following degrees in the College of Agriculture:

- Bachelor of Science in Agriculture
- Bachelor of Science in Agricultural Biotechnology
- Bachelor of Science in Agricultural Economics
- Bachelor of Science in Agricultural Education, Communications, and Leadership
- Bachelor of Science in Animal Sciences
- Bachelor of Science in Food Science
- Bachelor of Science in Forestry

The College of Agriculture has given me the foundation needed to be successful for whatever endeavors I may take on in the future. With nationally ranked professors and a supportive staff, UK’s College of Agriculture is able to offer students an environment where they can receive a first-class education and more. I came to UK expecting lectures, homework, and deadlines. I am graduating knowing that the College of Agriculture will be a place I can always call on. I left my family only to join another. I believe UK’s College of Agriculture is one of the premier institutes in our country. Under one banner, education, research, camaraderie, and opportunity can be found.”

– Fatima Wazir
Animal Sciences
Class of 2004

“When I started at the University of Kentucky I knew that I wanted to pursue a field that would allow me to interact with others in a helping profession. Being a part of the School of Human Environmental Sciences has allowed me to do just that. From early childhood education to working with the elderly, HES offers a variety of majors in the helping professions. With smaller classes you get the opportunity to interact on a more personal level with both peers and instructors making the school feel like a family. The school also offers many professional organizations and clubs in each area of study. I can honestly say that when I graduate I will be leaving the School of Human Environmental Sciences with good friends, great professional connections, and a wonderful education.”

– Tiffany Whitmer
Family and Consumer Sciences
Class of 2005

SPECIAL APPLICATION DEADLINE FOR SCHOOL OF HUMAN ENVIRONMENTAL SCIENCES

Coordinated Program in Dietetics Upper division program applicants (students who have 71 semester hours of lower division courses – special application, transcript(s), and recommendations are due by:

<table>
<thead>
<tr>
<th>Fall</th>
<th>Feb. 1</th>
</tr>
</thead>
</table>

- Bachelor of Science in Landscape Architecture
- Bachelor of Science in Natural Resource Conservation and Management
- Bachelor of Science in Plant and Soil Science

Information on each major program (pre-major, major, and specialty support course requirements) follows. Students may obtain
additional information on programs and recommended plans of study from the Associate Dean for Instruction.

Also available to students are minors in agriculture, agricultural economics, animal sciences, food science, pest management, plant and soil science, and rural sociology.

Students in agricultural engineering are enrolled in the College of Engineering.

See page 86 of this Bulletin for the list of degrees offered through the School of Human Environmental Sciences.

Undeclared Majors
Students who are interested in agricultural study or the human environmental sciences but uncertain about a major should work closely with advisors in the College of Agriculture. With careful course selection, students can work toward fulfilling general requirements while exploring the various areas of study in agriculture, natural resources, and human environmental sciences.

Scholarships and Financial Aid
The College of Agriculture offers scholarship awards to students on the basis of academic accomplishment and involvement in extracurricular activities. Many of the departments in the college employ students in laboratories, greenhouses, barns, and field work in connection with the research program in agriculture. Information about scholarships and work opportunities is available in the Office of the Associate Dean for Instruction.

Academic Advising
Students in the College of Agriculture are advised by selected faculty in the department of the student’s major. Each student’s academic plan and records are maintained in the Associate Dean for Instruction’s office, N-6 Ag. Science Center, and in the Student Services Office, School of Human Environmental Sciences, 102 Erikson Hall. Students needing assistance selecting an advisor or general information about academics may come to the Associate Dean’s office or to the School of Human Environmental Sciences.

Inquiries about programs or majors within the College of Agriculture may be directed to:

Office of the Associate Dean for Instruction
N-6 Ag. Science Center
University of Kentucky
Lexington, KY 40546-0091
(859) 257-3469 or (859) 257-3468

Graduate Work
The College of Agriculture offers the Master of Science degree in all college departments.

Doctor of Philosophy degrees are offered in the following areas: agricultural economics, animal sciences, biosystems and agricultural engineering, crop science, entomology, family studies, plant pathology, plant physiology, sociology, soil science, and veterinary science. For more information, students should see The Graduate School Bulletin.

REQUIREMENTS FOR THE B.S. DEGREE IN AGRICULTURE
Students pursuing the Bachelor of Science in Agriculture may pursue an individualized program in agriculture such as Entomology.

Graduation Requirements
To earn a Bachelor of Science in Agriculture, the student must have a minimum of 128 credit hours with at least a 2.0 grade-point standing. A minimum of 48 credit hours must be from upper division courses (300 and above). Remedial courses may not be counted toward the total hours required for the degree.

All students pursuing the Bachelor of Science in Agriculture must complete the following requirements:

1. University Studies Program (USP)
2. College requirements
   Communications: GEN 100 and GEN 200 (6 hours)*
   one course in business or technical writing
3. Agriculture Major (minimum of 24 hours including 3 hours in a 400-level capstone course)
4. Specialty support courses outside major department (minimum of 21 hours)
5. Electives and/or Preprofessional requirements (10-40 hours)
6. Each student is required to develop an acceptable plan of study during the sophomore year that identifies the program of study to be followed in the junior and senior years. The plan is to be approved by the appropriate undergraduate curriculum committee or the Associate Dean for Instruction in situations where there is no undergraduate curriculum committee.

*Students transferring into the college with 30 or more hours take only GEN 200 plus one communications course from the approved sequence in University Studies.

Graduate Requirements
To earn a Bachelor of Science in Agricultural Biotechnology the student must complete:

1. Each student must apply to the Associate Dean for Instruction. The student will receive an explanation of the program and its objectives, and the possible risks involved, including prospective employment and acceptance for advanced graduate degree work.
2. Students who continue their interest in the individualized program develop, with the assistance of an advisor, the plan which they propose to follow.
3. This plan must be submitted to the Associate Dean for consideration and possible approval.
4. Approval of the student’s program by the Associate Dean will admit the student to the individual program option.

For more information, contact:

Office of the Associate Dean for Instruction
N-6 Ag. Science Center
University of Kentucky
Lexington, KY 40546-0091
(859) 257-3469 or (859) 257-3468

BACHELOR OF SCIENCE IN AGRICULTURAL BIOTECHNOLOGY

Agricultural biotechnology encompasses cellular and molecular approaches to the manipulation and improvement of agricultural plants, animals and microorganisms, and the control of agricultural pests and diseases. The primary purpose of the baccalaureate degree program in Agricultural Biotechnology is to train students in modern cellular and molecular biology and genetic engineering. Students will be provided with a firm foundation in the principles of genetics and molecular biology of both prokaryotic and eukaryotic organisms. Each student will then specialize in an area appropriate to his or her interest and career objectives, including: microbial, fungal, plant, insect and mammalian biotechnology.

Graduates will be prepared to assume government, university, and industry positions with research and technology applications to agriculture and food production. Employment opportunities include research scientists, laboratory technicians or managers in university, government, industrial, or clinical laboratories using biotechnological tools for research and production. Examples of research areas include: gene cloning, construction of novel pest and disease resistance genes, development of new immunological and nucleic acid types of diagnostic probes for plant and animal disease, genetic engineering of microorganisms for the production of important pharmaceutical agents, and development of new bioengineered strains of microorganisms for fermentation and food production services. Students will also be prepared to enter graduate programs in agriculture, molecular biology, and the biological sciences.

Graduation Requirements
To earn a Bachelor of Science in Agricultural Biotechnology the student must com-
**College of Agriculture and School of Human Environmental Sciences**

Complete 132 semester hours with at least a 2.0 grade-point standing. A minimum of 48 credit hours must be from upper division courses (300 and above). Remedial courses may not be counted toward the total hours required for the degree. In addition to the University Studies requirements, students must complete college, premajor, major, and specialty support requirements, including an independent research project relevant to the student’s interest in biotechnology.

**Plan of Study**

As an agricultural biotechnology major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Associate Dean for Instruction’s office.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Consult your academic advisor in developing your Plan of Study.

**College Required Hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABB 101</td>
<td>Introduction to Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>ABB 201</td>
<td>Scientific Method in Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>ABB 301</td>
<td>Writing and Presentations in the Life Sciences</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ENG 203 Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ENG 204 Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>GEN 100 Issues in Agriculture: The Development of Modern Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>GEN 200 Issues in Agriculture: Contemporary Problems in Agriculture and Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>*</td>
<td>These courses also satisfy the University Studies Oral Communication requirement.</td>
<td></td>
</tr>
<tr>
<td>Note:</td>
<td>Students transferring into the college with 30 or more hours take only GEN 200 plus one communications course from the approved sequence in University Studies.</td>
<td></td>
</tr>
</tbody>
</table>

**Subtotal: College Required Hours **6-10

**University Studies Requirements Hours**

See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

**Inference-Logic**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 123</td>
<td>Elementary Calculus and Its Applications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>MA 132 Calculus for the Life Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**Natural Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHE 105</td>
<td>General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 107</td>
<td>General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CHE 115 General Chemistry Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

**USP Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 150</td>
<td>Principles of Biology I</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BIO 151 Principles of Biology Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>or</td>
<td>BIO 152 Principles of Biology Laboratory II</td>
<td>2</td>
</tr>
</tbody>
</table>

**Subtotal: Electives **30-35

**Major Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABB 101</td>
<td>Introduction to Biotechnology</td>
<td>1</td>
</tr>
<tr>
<td>ABB 201</td>
<td>Scientific Method in Biotechnology</td>
<td>1</td>
</tr>
<tr>
<td>ABB 301</td>
<td>Writing and Presentations in the Life Sciences</td>
<td>2</td>
</tr>
<tr>
<td>Microbiology</td>
<td>BIO 208 Principles of Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BIO 209 Principles of Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>BCH 401 General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BCH 501 General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BCH 502 General Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Genetics</td>
<td>ABB/ASC/ENT 360 Genetics</td>
<td>1</td>
</tr>
<tr>
<td>or</td>
<td>BIO 304 Principles of Genetics</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>BIO 460 Introduction to Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>BIO 461 Introduction to Population Genetics</td>
<td>3</td>
</tr>
<tr>
<td>Statistics</td>
<td>STA 291 Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>Advanced Practical Skills</td>
<td>ABB 495 Experimental Methods in Biotechnology</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>BIO 510 Recombinant DNA Techniques Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>Independent Study</td>
<td>ABB 395 Independent Study in Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>ABB 399 Experiential Learning in Biotechnology</td>
<td>3</td>
</tr>
</tbody>
</table>

All students are expected to undertake an independent study project in an area of their interest for a minimum of 3 credit hours. This requirement can be met by a research project or an internship that is agreed upon by a student’s advisor and approved by the Biotechnology Coordinating Committee prior to initiation of the project. Both written and oral reports are required when the project is completed.

**Subtotal: Major Hours **31-35

**Specialty Support**

Students must take a minimum of 21 credit hours of specialty support courses including at least one of the courses listed below. A number of the courses listed here may have additional prerequisites. Additional specialty support courses will be selected according to the student’s area of interest with approval of the academic advisor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASC 364</td>
<td>Reproductive Physiology of Farm Animals</td>
<td>3</td>
</tr>
<tr>
<td>BIO 315</td>
<td>Introduction to Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 350</td>
<td>Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 430G</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 476G</td>
<td>General Microbial Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Subtotal: Specialty Support Hours **21

**Electives**

Electives should be selected to complete the 132 hours required for graduation.

**Subtotal: Electives **minimum of 9

**TOTAL HOURS: **132

**BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS**

The Agricultural Economics program enables graduates to pursue careers in agribusiness and food industries, international marketing and trade, farm management and production. Opportunities are also available in public policy for agriculture and rural America and environmental economics. These career opportunities may be found in both the private and public sectors. Economic theory is applied to problems concerning the production, marketing, and distribution of agricultural and food products and also to public policy and natural resource and environmental issues facing rural communities.

Agricultural Economics students choose one of two options – Option A: Agricultural Economics, and Option B: Agribusiness Management and Food Marketing.

**Graduation Requirements**

To earn the Bachelor of Science in Agricultural Economics, the student must have a minimum of 128 credit hours with at least a 2.0 grade-point average in one of the two program options. A student must earn a minimum grade of C in each of the four agricultural economics courses required in the major. A minimum of 48 credit hours must be from upper division courses (300 and above). Remedial courses may not be counted toward the total hours required for the degree. In addition to University Studies requirements, students must complete college, departmental and support requirements.

**Plan of Study**

As an agricultural economics major you are required to develop an acceptable Plan of Study in your chosen area of emphasis for your junior and senior years. Submit the plan for approval to the department’s Undergraduate Program Committee and the Director of Undergraduate Studies during the second semester of your sophomore year.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan for approval during the first semester you are enrolled in the department.
College of Agriculture and School of Human Environmental Sciences

Consult your academic advisor in developing your Plan of Study.

**College Required Hours**

ENG 203 Business Writing or ENG 204 Technical Writing ............................... 3
+GEN 100 Issues in Agriculture: The Development of Modern Agriculture .......... 3
+GEN 200 Issues in Agriculture: Contemporary Problems in Agriculture and Natural Resources 3
+ These courses also satisfy the University Studies Oral Communication requirement.

Note: Students transferring into the college with 30 or more hours take only GEN 200 plus one communications course from the approved sequence in University Studies.

**Subtotal: College Required Hours ........ 6-9**

**University Studies Requirements**

See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

**Math**

MA 109 College Algebra ................................................ 3

**Inference-Logic**

MA 123 Elementary Calculus and Its Applications ..................................... 3

or

MA 113 Calculus I ......................................................... 4

**Social Sciences**

ECO 201 Principles of Economics I ........................................... 3

One course other than economics from University Studies Program list ........................................ 3

**OPTIONS**

**Option A: Agricultural Economics**

This option provides a program of study for students interested in careers in rural public policy analysis, rural economic development, natural resource and environmental economics, cooperative extension, or a more individualized program.

**Premajor Requirements**

*ECO 201 Principles of Economics I ............... 3

ECO 202 Principles of Economics II ......................... 3

*MA 113 Calculus I ..................................................... 4

*MA 123 Elementary Calculus and Its Applications

and

MA 162 Finite Mathematics and Its Applications .... 6

STA 291 Statistical Method ........................................... 3

ECO 391 Economic and Business Statistics .......... 3

**Subtotal: Premajor Hours .................. 16-18**

**Major Requirements**

Note: Students must receive a grade of C or better in each of the following four agricultural economics courses required for graduation:

AEC 302 Agricultural Management Principles ............... 4

AEC 303 Microeconomic Concepts in Agricultural Economics .................................................. 3

AEC 305 Food and Agricultural Marketing Principles ... 3

AEC 480 Senior Seminar .................................................. 3

plus 12 additional hours in the major .................................. 12

**Subtotal: Major Hours ................. 25**

**Major Requirements**

Note: Students must receive a grade of C or better in each of the following four agricultural economics courses required for graduation:

AEC 302 Agricultural Management Principles ............... 4

AEC 303 Microeconomic Concepts in Agricultural Economics .................................................. 3

AEC 305 Food and Agricultural Marketing Principles ... 3

AEC 480 Senior Seminar .................................................. 3

plus 12 additional hours in the major .................................. 12

**Subtotal: Major Hours ................. 25**

**Specialty Support**

ACC 201 Financial Accounting I ........................................ 3

ACC 202 Managerial Uses of Accounting Information .................................................. 3

plus 15 additional hours of courses at the 200 level or higher to fulfill the student’s area of interest and selected with advisor’s approval from the following departments: ACC, AEN, ASC, BAE, COM, CS, DIS, ECO, ENT, FIN, FOR, MA, MGT, MKT, PLS, PS, PSY, SOC, VS ................... 15

**Subtotal: Specialty Support Hours .......... 21**

**Electives**

Electives should be selected by the student to lead to the minimum total of 128 hours required for graduation.

**Subtotal: Electives ............... minimum of 28**

**TOTAL HOURS: .................................................. 128**

**Plan of Study**

As an agricultural education, communications, and leadership major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Associate Dean for Instruction’s office.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Students must complete the following:

**College Required Hours**

ENG 203 Business Writing .................................................. 3

+GEN 100 Issues in Agriculture: The Development of Modern Agriculture .......... 3

+GEN 200 Issues in Agriculture: Contemporary Problems in Agriculture and Natural Resources .... 3

+ These courses also satisfy the University Studies Oral Communication requirement.

Note: Students transferring into the college with 30 or more hours take only GEN 200 plus one communications course from the approved sequence in University Studies.

**Subtotal: College Required Hours .......... 6-9**

**University Studies Requirements**

See “University Studies Program” on pages 70-74 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

**Major Requirements**

Note: Students must receive a grade of C or better in each of the following four agricultural economics courses required for graduation:

AEC 101 The Economics of Food and Agriculture ........... 3

*ACE 102 The Dynamics of Rural Social Life .................. 3

ACE 302 Leadership Studies ........................................... 3

ACE 320 Survey of Agriculture and Consumer Media .................................................. 3

ACE 362 Practicum in Career and Technical Education, Agricultural Communications, and Leadership ........ 3

ACE 501 Principles of Cooperative Extension ............... 3

+GEN 100 Issues in Agriculture: The Development of Modern Agriculture .......... 3

+GEN 200 Issues in Agriculture: Contemporary Problems in Agriculture and Natural Resources .... 3

**Subtotal: Major Hours ................. 24**

In addition to the Major Requirements, students choose one of three options:
Option A: Agricultural Communications
JOU 101 Introduction to Journalism 3
or
ISC 161 Introduction to Integrated Strategic Communication 3
JOU 204 Writing for the Mass Media 3
JOU 301 News Reporting 3
JOU 485 Community Journalism 3
COM/SOC 249 Mass Media and Mass Culture 3
COM/SOC 449 Social Processes and Effects of Mass Communication 3
ACE 400 Agricultural Communications Campaigns 3
ACE 490 Seminar in Agricultural Communications 3
Subtotal: Option A Hours 24

Specialty Support Requirements
It is recommended that this specialty area be drawn from (1) news/editorial, (2) advertising/public relations, or (3) electronic media. Students are to take at least twelve hours in the College of Agriculture. The student’s advisor will make recommendations, but the specific courses the student takes will depend on his or her interests and academic goals.
Subtotal: Option A Specialty Support 24

Option B: Agricultural Education
*CHE 105 General College Chemistry I 3
AED 210 Introduction to Career and Technical Education 3
AED 580 Methods of Teaching Career and Technical Education I 3
AED 586 Methods of Teaching Career and Technical Education II 3
AED 501 Practicum in Career and Technical Education 3
EDP 203 Teaching Exceptional Learners in Regular Classrooms 3

*Satisfies half of the University Studies natural sciences requirement.
Subtotal: Option B Hours 27

Specialty Support Requirements
It is recommended that students complete at least two courses from five different agricultural areas. The student’s advisor will make recommendations, but the specific courses the student takes will depend on his or her interests and academic goals.
Subtotal: Option B Specialty Support minimum of 30

Teacher Certification
Besides receiving the B.S. in Agriculture students completing the requirements can obtain a letter of endorsement to teach agricultural education. Requirements for teacher certification are as follows:

To be certified you must be admitted to the teacher education program (TEP). To be admitted, you must have completed, or complete during the semester in which you apply, 60 semester hours of course work and AED 210 Introduction to Career and Technical Education and have at least a 2.5 grade-point standing (on a 4.0 scale).

Applicants are evaluated on an interview, recommendations, scholastic achievement, demonstrated skills, and professional commitment and goals. In addition, you must have three years of agricultural experience since the age of 14.

You must also complete at least 50 hours in agriculture courses, including six hours in each of the following areas: animal sciences, plant sciences, soils, agricultural engineering, and agricultural economics (including Farm Management or Agribusiness Management). A professional education component is also required.

You must successfully complete assessment items and portfolio items as required. Further, you must successfully complete the three basic sections of the PRAXIS Exam and a technical agriculture exam, scoring above cutoff scores specified by the State Board of Education for each exam.

After completing these exams, students hired by Kentucky schools will complete a one-year paid internship as a first-year teacher and will be evaluated at least three times by a three-person committee before certification is completed.

Other agriculture majors can also qualify to teach agricultural education provided they meet current certification requirements.

Note: Because graduation and teacher certification requirements change frequently, students should obtain more complete information from their advisors.

Option C: Public Service and Leadership
PS 101 American Government 3
PS 487G Introduction to Public Administration 3
PS 489G The Analysis of Public Policy 3
SOC 342 Organizations in Society 3
SOC 542 Human Relations in Administration of Organizations 3
SOC/PSY 344 Social Psychology 3
ACE 490 Seminar in Agricultural Communications 3
AEC 305 Food and Agricultural Marketing Principles 3
AEC 532 Agricultural and Food Policy 3
Subtotal: Option C Hours 24

Specialty Support Requirements
It is recommended that this specialty area be drawn from (1) community and natural resources development, (2) legal and administrative studies, or (3) youth and family studies. Students are to take at least twelve hours in the College of Agriculture. The student’s advisor will make recommendations, but the specific courses the student takes will depend on his or her interests and academic goals.
Subtotal: Option C Specialty Support 24

Electives
Electives should be selected by the student to lead to the minimum total of 128 hours required for graduation.
Subtotal: Electives 6

TOTAL HOURS: 128

BACHELOR OF SCIENCE IN ANIMAL SCIENCES

Animal Sciences involves studying and applying the basic principles of nutrition, reproduction, and genetics to the production and management of horses, dairy and beef cattle, sheep, swine, and poultry. As a major, you will have the opportunity to pursue specific interests by selecting one of three options in animal production, dairy production or equine production.

No one program fits all Animal Sciences students. Animal Sciences students come from varied backgrounds. Interests range from livestock and poultry production and management to marketing and public relations; from public education and extension to graduate training in research and teaching and veterinary medicine. No matter what livestock species you have an interest in, the Animal Sciences major will allow you to combine your interest with your desire for an exciting and rewarding career.

Graduation Requirements
To earn the Bachelor of Science in Animal Sciences, the student must have a minimum of 128 credit hours with at least a 2.0 grade-point standing. A minimum of 48 credit hours must be from upper division courses (300 and above). Remedial courses may not be counted toward the total hours required for the degree.

Plan of Study
As an animal sciences major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your academic advisor and returned to the Associate Dean for Instruction’s office.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Consult your academic advisor in developing your Plan of Study.

Each student must complete the following:

College Required Hours
ENG 203 Business Writing or ENG 204 Technical Writing 3
†GEN 100 Issues in Agriculture: The Development of Modern Agriculture 3
†GEN 200 Issues in Agriculture: Contemporary Problems in Agriculture and Natural Resources 3
†These courses also satisfy the University Studies Oral Communication requirement.

Note: Students transferring into the college with 30 or more hours take only GEN 200 plus one communications course from the approved sequence in University Studies.

Subtotal: College Required Hours 6-9

University Studies Requirements
Hours
See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.
### Premajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 109 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MA 113 Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total: Premajor Hours** 19-21

### Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASC 106 Introductory Animal Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ASC 120 Introductory Animal Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ASC 362 Animal Breeding</td>
<td>3</td>
</tr>
<tr>
<td>ASC 364 Reproductive Physiology of Farm Animals</td>
<td>3</td>
</tr>
<tr>
<td>ASC 378 Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>ASC 380 Feeds and Feeding</td>
<td>3</td>
</tr>
<tr>
<td>ASC 470 Capstone for Animal Agriculture</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total: Major Hours** 19

In addition to the Major Requirements, students choose one of three options:

#### Option A: Animal Production

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASC 300 Meat Science</td>
<td>4</td>
</tr>
<tr>
<td>plus one of the following:</td>
<td></td>
</tr>
<tr>
<td>ASC 404G Sheep Science</td>
<td>4</td>
</tr>
<tr>
<td>ASC 406 Beef Cattle Science</td>
<td>4</td>
</tr>
<tr>
<td>ASC 408G Swine Science</td>
<td>3</td>
</tr>
<tr>
<td>ASC 410G Equine Science</td>
<td>3</td>
</tr>
<tr>
<td>ASC 420G Dairy Cattle Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total: Option A Hours** 7-8

#### Option B: Dairy Production

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASC 420G Dairy Cattle Science</td>
<td>3</td>
</tr>
<tr>
<td>ASC 564 Milk Secretion</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total: Option B Hours** 6

#### Option C: Equine Production

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASC 310 Equine Anatomy and Conformation</td>
<td>2</td>
</tr>
<tr>
<td>ASC 320 Equine Management</td>
<td>3</td>
</tr>
<tr>
<td>ASC 410G Equine Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total: Option C Hours** 8

### Specialty Support

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABT/ASC/ENT 360 Genetics</td>
<td>3-4</td>
</tr>
<tr>
<td>or BIO 304 Principles of Genetics</td>
<td></td>
</tr>
<tr>
<td>CHE 230 Organic Chemistry</td>
<td></td>
</tr>
<tr>
<td>or CHE 236 Survey of Organic Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total: Specialty Support** 21-22

### Electives

Electives should be selected to complete the 128 hours required for graduation.

**Total: Electives** minimum of 23

**TOTAL HOURS:** 128

### BACHELOR OF SCIENCE IN BIOSYSTEMS AND AGRICULTURAL ENGINEERING

The Agricultural Engineering curriculum is administered jointly by the College of Agriculture and the College of Engineering. Agricultural Engineering provides an essential link between the biological sciences and the engineering profession. This linkage is necessary for the development of food and fiber production and processing systems which preserve our natural resource base. Students in the agricultural engineering program can pursue one of four areas of specialization: Bioenvironmental Engineering, Food and Bioprocess Engineering, Machine Systems Automation Engineering, and Thermal Environmental Engineering.

The degree requirements and curriculum are listed in the *College of Engineering* section of this Bulletin.

### BACHELOR OF SCIENCE IN FOOD SCIENCE

Food science is the study of the transformation of biological materials into food products acceptable for human consumption. This requires studying diverse scientific disciplines related to food, including chemistry, engineering, microbiology, biochemistry, toxicology, and management; and effectively applying the industrial and practical aspects to product development, food processing, preservation, and marketing. The program is administered by the Department of Animal Sciences and offers training in the basic sciences and in the fundamentals of food science.

Career opportunities in food industries include: management, research and development of new food products and ingredients, process supervision, quality control, procurement, distribution, sales, and merchandising. Positions include sales and services in allied industries; consulting and trade association activities; and promotional and educational services. Governmental agencies employ food scientists whose work is directed towards research, regulatory control, and the development of food standards.

#### Graduation Requirements

To earn the Bachelor of Science in Food Science, the student must complete a minimum of 128 semester hours with at least 48 hours from courses at the 300 level and above. A 2.0 grade-point standing (on a 4.0 scale) is necessary and remedial courses may not be counted toward the total hours required for the degree.

The Food Science program meets the requirements for accreditation by the Institute of Food Technologists and the National Organization of Food Science Professionals.

### Plan of Study

As a food science major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Associate Dean for Instruction’s office.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Consult your academic advisor in developing your Plan of Study.

Each student must complete the following:

#### College Required Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 203 Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 204 Technical Writing</td>
<td></td>
</tr>
</tbody>
</table>

#### University Studies Requirements Hours

See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

#### Inference-Logic

MA 123 Elementary Calculus and Its Applications.... 3

#### Natural Sciences

CHE 105 General College Chemistry I....................... 3
CHE 107 General College Chemistry II..................... 3

#### Social Sciences

AEC 101 The Economics of Food and Agriculture........ 3

#### University Studies Requirements Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 109 College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MA 113 Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>or BIO 150 Principles of Biology I</td>
<td>3</td>
</tr>
<tr>
<td>or BIO 152 Principles of Biology II</td>
<td>3</td>
</tr>
<tr>
<td>or CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>or CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>or CHE 115 General Chemistry Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total: Premajor Hours** 22

### Major Requirements Hours

Required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEC 101 The Economics of Food and Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>or AEN 340 Principles of Food Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTAL HOURS: 128**

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*Note: Students transferring into the college with 30 or more hours take only GEN 200 plus one communications course from the approved sequence in University Studies.*
NFS 311 Nutritional Biochemistry or
BCH 401G Fundamentals of Biochemistry 3
FSC 306 Introduction to Food Processing 4
FSC 434G Food Chemistry 4
FSC 530 Food Microbiology 5
FSC 535 Food Analysis 4
FSC 536 Advanced Food Technology 4
Subtotal: Major Hours 31

Specialty Support

Students must select 22 credits from the following suggested list of support courses:

AEC 201 Introduction to Farm and Natural Resource Finance 3
AEC 305 Food and Agricultural Marketing Principles 3
ASC/ABT/ENT 360 Genetics 3
CS 101 Introduction to Computing I 3
ECS 201 Principles of Economics I 3
FSC 304 Animal Derived Foods 5
FSC 395 Special Problem in Animal Science/Food Science 2
FSC 399 Experiential Learning in Animal Sciences/Food Science 1-6
FSC 430G Sensory Evaluation of Foods 3
FSC 530 Food Fermentation and Thermal Processing 4
FSC 540 Food Sanitation 3
NFS 304 Experimental Foods 3

Subtotal: Specialty Support 22

Electives

Elective courses should be selected by the student to lead to the minimum total of 128 hours required for graduation.

Subtotal: Electives minimum of 5

TOTAL HOURS: 128

BACHELOR OF SCIENCE IN FORESTRY

Kentucky boasts many forested areas with famous reputations, such as Natural Bridge, Red River Gorge, Daniel Boone National Forest, and Robinson Forest. Robinson Forest is one of the largest research and educational forests in the eastern United States. It is managed by the Department of Forestry, and as a forestry student at the University of Kentucky all of its resources will be available to you as a unique outdoor laboratory. The missions of the Department of Forestry are to identify and address the challenges and opportunities facing sustained management of our renewable natural resources, including forests, soils, water, and wildlife. These missions involve three interconnected functions: research, extension, and education. The research goal of the department is to obtain basic and applied information leading to wise and effective management of our natural resources. Forestry extension seeks to inform landowners and the general public about forest stewardship. Forestry education prepares students for careers as forestry and natural resource professionals. The objectives of the required courses in the forestry curriculum are to educate and train students in the communication, managerial, scientific, processing, and administrative skills and principles related to the stewardship and utilization of renewable natural resources. Accomplishment of these objectives will ensure a continuing supply of entry-level professionals for Kentucky and the nation. The undergraduate (B.S.) program leading to the professional degree in forestry is accredited by the Society of American Foresters (SAF). SAF is the specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation as the accrediting agency for forestry in the United States. Additionally, you may become certified by The Wildlife Society if you choose appropriate elective courses.

Career Opportunities

Forestry graduates are employed as professional foresters in private forest industries and organizations, consulting companies, and public agencies, including the U.S. Forest Service, Soil Conservation Service, and state, county, or urban forestry programs. Graduates are also qualified to be research technicians in government, university, and private laboratories, or may continue their studies in specialized graduate programs. The inclusion in the curriculum of management and processing principles makes UK forestry graduates attractive to the forest products industry; graduates are often employed as technical specialists, managers, and marketing and wood procurement personnel.

Graduation Requirements

The four-year Bachelor of Science program in Forestry consists of 133 semester hours. Eight of these hours are earned while attending a Summer Camp between the third and fourth academic years. This eight-week Summer Camp at Robinson Forest provides practical, in-the-field training and is required of all forestry students. The camp involves overnight travel and takes place at a number of field locations including but not necessarily limited to Robinson Forest.

The curriculum consists of University Studies program, preprofessional, professional, and specialty support components. For 100, Introduction to Forestry, is required of all undergraduates during their first semester. This course provides a broad overview of forestry. Preprofessional, professional, and specialty support courses provide the skills and understanding to manage forest resources. Electives, chosen with the assistance of your advisor, strengthen your knowledge of basic principles in areas of special interest to you. University Studies Requirements See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Inference Logic
MA 123 Elementary Calculus and Its Applications 3

Natural Sciences
CHE 105 General College Chemistry I 3
CHE 107 General College Chemistry II 3

Social Sciences
AEC 101 The Economics of Food and Agriculture 3
ECS 201 Principles of Economics I 3

One other course other than economics from USP list 3

USP Electives
BIO 150 Principles of Biology I 3
BIO 152 Principles of Biology II 3

Premajor Requirements Hours
High school trigonometry or
MA 112 Trigonometry or equivalent 0-2

*MA 123 Elementary Calculus and Its Applications 3
MA 162 Finite Mathematics and Its Applications 3

*ECO 150 Principles of Biology I 3
*BIO 151 Principles of Biology I 3
*BIO 152 Principles of Biology II 3
*BIO 153 Principles of Biology Laboratory II 2
*CHE 105 General College Chemistry I 3
*CHE 107 General College Chemistry II 3
*CHE 115 General Chemistry Laboratory 3

PHY 151 Introduction to Physics or any higher numbered physics course of 3 or more credit hours 3

*AEC 101 The Economics of Food and Agriculture or
*ECO 151 Principles of Economics I 3

*GEO 210 Pollution, Hazards, and Environmental Management or
*SOC 260 Population, Resources and Change or one other departmentally-approved course of 3 or more credit hours 3

STA 291 Statistical Method 3

Subtotal: Premajor Hours 37-39

Major Requirements Hours
FOR 100 Introduction to Forestry 3
FOR 200 Forest and Wildlife Management 3

*FOR 205 Forest and Wildlife Management 3
FOR 219 Soil and Landscapes 3
FOR 220 Soils and Landscapes 4
FOR 221 Silviculture and Tree Identification 3
FOR 300 Forest Measurements 4
FOR 304 Forest Ecology 3
FOR 310 Soil and Landscapes 4
FOR 315 Soil and Landscapes 4
FOR 320 Forest Technology and Utilization 4
FOR 402 Forest Entomology 3
FOR 410 Forest Pathology 3
FOR 425 Timber Management 4
FOR 430 Forest Wildlife Management 3
FOR 440 Forest Resources for Recreation 3
FOR 460G Forest Watershed Management 3
FOR 480 Integrated Forest Resource Management 3

Subtotal: Major Hours 59

Specialty Support Requirement
AEC 201 Introduction to Farm and Natural Resource Finance 3

Subtotal: Specialty Support 3
**Electives**

Elective courses should be selected by the student to lead to the minimum total of 133 hours required for graduation.

<table>
<thead>
<tr>
<th>Subtotal: Electives</th>
<th>minimum of 13</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL HOURS:</td>
<td>133</td>
</tr>
</tbody>
</table>

**BACHELOR OF SCIENCE IN LANDSCAPE ARCHITECTURE**

The profession of landscape architecture has grown out of the tradition of the great garden designers of Italy, France, England, and China to encompass the art and science of design, planning, and management of the land. The science of landscape architecture is concerned with the conservation and management of natural resources. The art of landscape architecture is concerned with the creation of more enjoyable, comfortable, and safe outdoor areas where human use requires adaptation of the natural environment.

This five-year professional program is accredited by the American Society of Landscape Architects and meets all the requirements for licensing of landscape architects in Kentucky and other states. Landscape architecture employment opportunities may be found in the designing of urban communities, plazas, university campuses, institutional grounds, parks and recreational areas, commercial and industrial sites, and residential communities, as well as in the areas of historic preservation, regional planning, and mine reclamation.

**Admission Requirements**

Admission to the University of Kentucky and to the College of Agriculture does not guarantee admission to the Landscape Architecture program. All applicants must be reviewed by the Landscape Architecture Program Chairperson. The number of applicants ultimately admitted is determined by the resources available to provide high quality instruction. Applicants will be reviewed on a comparative basis. Determination of acceptability into the program is based on the following:

- Entering freshmen and transfer students from degree programs other than Landscape Architecture must:
  1. submit a formal application to the Undergraduate Admissions Office indicating Landscape Architecture as your major;
  2. meet the minimum criteria for admission or readmission to the University as specified in this Bulletin (The Landscape Architecture program requires a minimum of a 2.0 grade-point average on a 4.0 scale for eligibility to transfer into the program); and
  3. successfully complete the aptitude testing designated by the Landscape Architecture program.

If a student transferring from another degree program has a background in related design fields, he or she may submit available work, such as a portfolio or other work examples, as an indication of potential success.

Transfer students from degree programs in Landscape Architecture at other accredited institutions must:

1. submit a formal application to the Undergraduate Admissions Office indicating Landscape Architecture as your major;
2. meet the minimum criteria for admission to the University as specified in this Bulletin (The Landscape Architecture program requires a minimum of a 2.0 grade-point average on a 4.0 scale for eligibility to transfer into the program); and
3. submit a portfolio for review which, combined with an evaluation of courses completed, will determine acceptance into the program as well as the level to which the student will be accepted.

**Graduation Requirements**

To earn a Bachelor of Science degree in Landscape Architecture, the student must have 145 semester hours with at least a 2.0 grade-point standing (on a 4.0 scale). Remedial courses may not be counted toward the total hours required for graduation. In addition to satisfying the University Studies Program requirements, each student must complete pre-major, professional, and specialty support requirements. The Landscape Architecture program policy requires a student to achieve a C grade or better in major design studios in order to advance to the next level.

**University Studies Requirements**

See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements. Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

**Math**

- MA 109 College Algebra ..................................... 3

**Natural Sciences**

- GLY 110 Endangered Planet: An Introduction to Environmental Geology ........................................ 3
- GLY 220 Principles of Physical Geology ................. 4
- GLY 101 Physical Geology and                      4
- GLY 111 Laboratory for Physical Geology ............ 4

**Social Sciences**

- ECO 101 Contemporary Economic Issues or           3
- ECO 201 Principles of Economics I ..................... 3

One course other than economics from University Studies Program list ........................................ 3

**Premajor Requirements**

<table>
<thead>
<tr>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Electives should be selected by the student to lead to the minimum total of 145 hours required for graduation.

<table>
<thead>
<tr>
<th>Subtotal: Electives</th>
<th>minimum of 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL HOURS:</td>
<td>145</td>
</tr>
</tbody>
</table>

---

*GLY 101 Physical Geology and
GTY 111 Laboratory for Physical Geology ............ 4
*GLY 220 Principles of Physical Geology ............ 4
*GLY 110 Endangered Planet: An Introduction to
Environmental Geology .................................... 3

<table>
<thead>
<tr>
<th>Subtotal: PreMajor Hours</th>
<th>15</th>
</tr>
</thead>
</table>

**Departmental Professional Requirements**

- LA 205 History of Landscape Architecture ........... 3
- LA 206 Contemporary Landscape Architecture ....... 3
- LA 821 Landscape Architecture Design Studio I ...... 6
- LA 822 Landscape Architecture Design Studio II ...... 6
- LA 833 Landscape Architecture Design Studio III ..... 6
- LA 834 Landscape Architecture Design Studio IV ..... 6
- LA 841 Landscape Architecture Design Studio V ...... 6
- LA 842 Landscape Architecture Design Studio VI ...... 6
- LA 871 Design Implementation I .......................... 4
- LA 872 Design Implementation II ........................ 4
- LA 973 Advanced Design Implementation ............. 6
- LA 975 Advanced Landscape Architecture Studio ..... 6

Students must complete four courses at the 800 level and two courses at the 900 level from the following:

- LA 850 Landscape Architecture Graphics ............... 3
- LA 851 Design with Plants ................................ 3
- LA 853 History and Theory of Urban Form ............. 3
- LA 854 Historic Landscape Preservation ............... 3
- LA 855 Geographic Information Systems and Landscape Analysis ........................................ 3
- LA 857 Design Theories in Landscape Architecture 3
- LA 858 Regional Land Use Planning Systems .......... 3
- LA 895 Independent Work in Landscape Architecture ......................................................... 1-6
- LA 952 Advanced Landscape Architectural Graphic Communication ........................................ 3
- LA 956 Advanced Geographic Information Systems (GIS) and Landscape Analysis .................. 3
- LA 959 Advanced Regional Land Use Planning Applications ..................................................... 3
- LA 971 Senior Project ....................................... 3

<table>
<thead>
<tr>
<th>Subtotal: Major Hours</th>
<th>80</th>
</tr>
</thead>
</table>

**Specialty Support Requirements**

- ARC 850 Professional Practice .......................... 3
- PLS 220 Introduction to Plant Identification ....... 3
- PLS 320 Woody Horticultural Plants .................... 4
- BIO 325 Introductory Ecology ............................ 4
- FOR 340 Forest Ecology .................................... 3
- PLS 566 Fundamentals of Soil Science ................. 4
- FOR 205 Forest and Wildland Soils and Landscapes ... 4

Select one additional 400-500 level course from an area of study related to landscape architecture, such as GEO, HIS, SOC, PSY, PS, etc., with the approval of the student’s advisor.

<table>
<thead>
<tr>
<th>Subtotal: Specialty Support</th>
<th>minimum of 20</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>TOTAL HOURS:</th>
<th>145</th>
</tr>
</thead>
</table>
BACHELOR OF SCIENCE IN
NATURAL RESOURCE
CONSERVATION AND
MANAGEMENT

The program in Natural Resource Conservation and Management is designed to provide students with the knowledge and skills needed for a career in the rapidly growing fields of environmental science and policy. As the world population grows, and as nations are drawn closer together through technology and trade, the conservation and management of natural resources will become increasingly important to the sustained well-being of all societies. The curriculum provides students with exposure to a broad array of key disciplines involved with natural resources. As a result, graduates have the capacity to integrate different perspectives and diverse bodies of knowledge in dealing with real resource management problems.

Students have the opportunity to specialize in either a science or a policy option. Students in either option share a common core of courses and have the opportunity to examine both the technical and socioeconomic dimensions of resource issues. The remaining courses which constitute the Concentration Area are determined by the student and his or her academic advisor. The courses are expected to be interrelated into a coherent area of concentration.

Graduates of the Natural Resource Conservation and Management degree program are employed as professionals in both the public and private sectors. Industries which have an impact upon the environment maintain a staff of environmental scientists and technicians to ensure compliance with the standards of our society. Government agencies employ broadly trained natural resource scientists to serve in regulatory or management functions for the resources in their jurisdiction. Additional employment opportunities exist in environmental journalism and education, and with the many nonprofit organizations which have environmental concerns. In addition, students in either option are well prepared for graduate programs dealing with resource and environmental issues and in traditional academic disciplines.

Graduation Requirements

To earn a Bachelor of Science in Natural Resource Conservation and Management, the student must complete 128 semester hours with at least a 2.0 grade-point standing. A minimum of 48 credit hours must be from upper division courses (300 and above). Remedial courses may not be counted toward the total hours required for the degree. In addition to the University Studies Program requirements, the student must complete college, pre-major, core course, and concentration requirements including an internship. Students will choose an option and a concentration area with the help of the academic advisor.

Plan of Study

As a natural resource conservation and management major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Associate Dean for Instruction’s office.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program. Consult your academic advisor in developing your Plan of Study.

College Required Hours

ENG 203 Business Writing or ENG 204 Technical Writing ................................. 3

*GEN 100 Issues in Agriculture: The Development of Modern Agriculture* 3

*GEN 200 Issues in Agriculture: Contemporary Problems in Agriculture and Natural Resources 3

†These courses also satisfy the University Studies Oral Communication requirement.

Note: Students transferring into the college with 30 or more hours take only GEN 200 plus one communications course from the approved sequence in University Studies.

Subtotal: College Required Hours ............ 6-9

University Studies Requirements Hours

See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Inference-Logic

MA 113 Calculus I .......................................................... 4

or

MA 123 Elementary Calculus and Its Applications 3

Natural Sciences

BIO 150 Principles of Biology I ..................................... 3

BIO 152 Principles of Biology II .................................... 3

Social Sciences

ECO 201 Principles of Economics I ................................. 3

SOC 260 Population, Resources and Change .......................... 3

Option A: Science

Premajor Requirements Hours

*BIO 150 Principles of Biology I .......................... 3

**BIO 151 Principles of Biology Laboratory I .... 2

*BIO 152 Principles of Biology II .......................... 3

**BIO 153 Principles of Biology Laboratory II .... 2

*CHE 105 General College Chemistry I ............... 3

*CHE 107 General College Chemistry II ............... 3

*CHE 115 General Chemistry Laboratory .................. 3

CHE 226 Analytical Chemistry ..................................... 4

or

CHE 236/231 Survey of Organic Chemistry/ Organic Chemistry Laboratory I ......................... 5

or

CHE 230/231 Organic Chemistry I/ Organic Chemistry Laboratory I ............................ 5

*ECO 201 Principles of Economics I .......................... 3

Minor Requirements

NRC 301 Natural Resource Conservation and Management ................................ 3

NRC 320 Data Collection Technique ................................. 3

NRC 330 NEPA Compliance ........................................... 3

NRC 380 Analysis of Natural Resource Systems ........................................ 3

NRC 381 Natural Resource Policy Analysis ........................................ 3

NRC 395 Independent Study in Natural Resources or NRC 390 Experiential Education in Natural Resources ........................................ 3

NRC 450G Biogeochemistry ........................................... 3

NRC 471 Senior Problem in Natural Resources ........................................ 3

AEC 445G Introduction to Resource and Environmental Economics ........................................ 3

FOR 340 Forest Ecology ................................................ 3

PLS 366 Fundamentals of Soil Science ....................... 4

PLS 367 Soil and Water Analysis Laboratory .............. 3

Subtotal: Option A Premajor Hours ............ 39-42

Major Requirements Hours

NRC 301 Natural Resource Conservation and Management ................................ 3

NRC 320 Data Collection Technique ................................. 3

NRC 330 NEPA Compliance ........................................... 3

NRC 380 Analysis of Natural Resource Systems ........................................ 3

NRC 381 Natural Resource Policy Analysis ........................................ 3

NRC 395 Independent Study in Natural Resources or NRC 390 Experiential Education in Natural Resources ........................................ 3

NRC 450G Biogeochemistry ........................................... 3

NRC 471 Senior Problem in Natural Resources ........................................ 3

AEC 445G Introduction to Resource and Environmental Economics ........................................ 3

FOR 340 Forest Ecology ................................................ 3

PLS 366 Fundamentals of Soil Science ....................... 4

PLS 367 Soil and Water Analysis Laboratory .............. 3

Subtotal: Option A Major Hours ............... 37

Concentration Area Hours

In addition to the core courses, each student, in consultation with his or her academic advisor, will select 18 hours of courses that will constitute the student’s Concentration Area. Three of these hours must be from a Steering Committee approved list of applied natural resource courses. The approved list will be revised annually and currently consists of AEC 309, ENT 402, FOR 315, FOR 430, GEO 305, NRC 420G. The remaining courses (15 hours minimum) that constitute the Concentration Area will be determined by the student and his or her academic advisor, but the courses are expected to be interrelated into a coherent area of concentration. Students will be advised that many minors relevant to natural resource conservation and management require 18-21 credit hours. Should a student and his or her advisor decide that the student will pursue a natural resource relevant minor, the minor may become part of the student’s Concentration Area.
During the sophomore year, each student, in consultation with his or her advisor, will identify the Concentration Area and develop a Plan of Study that details the course work to be taken during the junior and senior years.

The Plan of Study must be approved by the student's advisor, the Chair of the Steering Committee, and the Associate Dean for Instruction in the College of Agriculture.

Subtotal: Concentration Area ............................... 18

Option B: Policy

Premajor Requirements

Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*BIO 150 Principles of Biology I ........................................</td>
<td>3</td>
</tr>
<tr>
<td>**BIO 151 Principles of Biology Laboratory I ................................</td>
<td>2</td>
</tr>
<tr>
<td>*BIO 152 Principles of Biology II ..........................................</td>
<td>2</td>
</tr>
<tr>
<td>**BIO 153 Principles of Biology Laboratory II ................................</td>
<td>2</td>
</tr>
<tr>
<td>*CHE 105 General College Chemistry I .......................................</td>
<td>3</td>
</tr>
<tr>
<td>*ECO 201 Principles of Economics I .........................................</td>
<td>3</td>
</tr>
<tr>
<td>ECO 202 Principles of Economics II .........................................</td>
<td>3</td>
</tr>
<tr>
<td>MA 113/193 Calculus I/Supplementary Mathematics Workshop I: (Subtitle required)</td>
<td>5</td>
</tr>
<tr>
<td>or MA 123 Elementary Calculus and Its Applications ..........................</td>
<td>3</td>
</tr>
<tr>
<td>*SOC 260 Population, Resources and Change ..................................</td>
<td>3</td>
</tr>
<tr>
<td>GLY 220 Principles of Physical Geology .......................................</td>
<td>4</td>
</tr>
<tr>
<td>STA 291 Statistical Methods ..................................................</td>
<td>3</td>
</tr>
</tbody>
</table>

**Recommended laboratory courses.

Subtotal: Option B Premajor Hours .......................... 32-34

Major Requirements

Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRC 301 Natural Resource Conservation and Management .......................</td>
<td>3</td>
</tr>
<tr>
<td>NRC 320 Data Collection Technique ...........................................</td>
<td>3</td>
</tr>
<tr>
<td>NRC 330 NEPA Compliance ..................................................................</td>
<td>3</td>
</tr>
<tr>
<td>NRC 380 Analysis of Natural Resource Systems ................................</td>
<td>3</td>
</tr>
<tr>
<td>NRC 381 Natural Resource Policy Analysis .....................................</td>
<td>3</td>
</tr>
<tr>
<td>NRC 395 Independent Study in Natural Resources or NRC 399 Experiential Education in Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>NRC 471 Senior Problem in Natural Resources ...................................</td>
<td>3</td>
</tr>
<tr>
<td>FOR 340 Forest Ecology ....................................................................</td>
<td>3</td>
</tr>
<tr>
<td>AEC 445G Introduction to Resource and Environmental Economics ............</td>
<td>3</td>
</tr>
<tr>
<td>AEC 483 Regional Economics ................................................................</td>
<td>3</td>
</tr>
<tr>
<td>AEC 545 Resource and Environmental Economics ..................................</td>
<td>3</td>
</tr>
<tr>
<td>SOC 420 Community Analysis ................................................................</td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal: Option B Major Hours ................................... 36

Concentration Area

Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>in addition to the core courses, each student, in consultation with his or her academic advisor, will select 18 hours of courses that will constitute the student’s Concentration Area. Three of these hours must be from a Steering-Committee approved list of applied natural resource courses. The approved list will be revised annually and currently consists of AEC 309, EOR 402, FOR 315, FOR 430, GEO 305, NRC 420G. The remaining courses (15 hours minimum) that constitute the Concentration Area will be determined by the student and his or her academic advisor, but the courses are expected to be interrelated into a coherent area of concentration. Students will be advised that many minors relevant to natural resource conservation and management require 18-21 credit hours. Should a student and his or her advisor decide that the student will pursue a natural resource relevant minor, the minor may become part of the student’s Concentration Area.</td>
<td></td>
</tr>
<tr>
<td>during the sophomore year, each student, in consultation with his or her academic advisor, will identify the Concentration Area and develop a Plan of Study that details the course work to be taken during the junior and senior years. The Plan of Study must be approved by the student's advisor, the Chair of the Steering Committee, and the Associate Dean for Instruction in the College of Agriculture.</td>
<td></td>
</tr>
</tbody>
</table>

Subtotal: Concentration Area ........................................ 18

Electives

Elective courses should be selected by the student to lead to the minimum total of 128 hours required for graduation.

Subtotal: Electives ............................................................ 9

TOTAL HOURS: .................................................................... 128

BACHELOR OF SCIENCE IN PLANT AND SOIL SCIENCE

The Plant and Soil Science degree program is designed to provide students with the knowledge and edge skills needed for a career in the production and management of plants and soils for food, fiber, forage, oil, recreation, landscaping and the enhancement of the human environment. Graduates have the technical and scientific skills as well as the communication, computational, leadership, and interpersonal capabilities necessary to function effectively as professionals. Careers are as diverse as they are challenging. Each Area of Emphasis prepares graduates for specific professional opportunities.

Areas of Emphasis

Students pursuing a Plant and Soil Science degree may choose from the following areas:

- Crops and Livestock
- Crops and Soils
- Horticulture Enterprise Management
- Horticultural Science
- Plant Pest Management
- Soil and Water Environmental Science
- Turfgrass Science

Graduation Requirements

Students must complete a minimum of 128 semester credit hours with at least 48 credit hours from courses at the 300 level or above. In addition to the University Studies and college requirements, students must select an Area of Emphasis with the assistance of an advisor and fulfill the area’s program requirements.

Plan of Study

As a plant and soil science major you are required to develop an acceptable Plan of Study during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Associate Dean for Instruction’s office.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Consult your academic advisor in developing your Plan of Study.

College Required Hours

ENG 203 Business Writing or ENG 204 Technical Writing .......................... 3

*GEN 100 Issues in Agriculture: The Development of Modern Agriculture* .......................... 3

University Courses Requirements

See “University Courses Requirements” on page 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Math

MA 123 Elementary Calculus and Its Applications ................................ 3

Natural Sciences

CHE 105 General College Chemistry I .............................................. 3
CHE 107 General College Chemistry II ............................................. 3

In addition, the student must submit a proposed plan of study for the junior and senior years.

Premajor Requirements

*MA 123 Elementary Calculus and Its Applications .......................... 3
*CHE 105 General College Chemistry I ........................................... 3
*CHE 107 General College Chemistry II .......................................... 3
*CHE 115 General Chemistry Laboratory ........................................ 3

Subtotal: Premajor Hours .................................................. 12

Major Requirements

*AEC 101 The Economics of Food and Agriculture ................................ 3
*ACE 102 The Dynamics of Rural Social Life ..................................... 3
*PLS 104 Plants, Soils, and People: A Global Perspective .................... 3
PLS 210 The Life Processes of Plants ............................................. 3
PLS 220 Introduction to Plant Identification ..................................... 3
PLS 366 Fundamentals of Soil Science ............................................ 4
PLS 386 Plant Production Systems ................................................. 4
PLS 490 Topics in Plant and Soil Science ........................................ 3

*Required in Plant and Soil Science curriculum and also satisfies University Studies or College of Agriculture requirements.

Subtotal: Major Hours ..................................................... 26

Area of Emphasis (15-31 hours)

In addition to the 31 PLS and GEN credit hours listed above in Major Requirements, students will select an additional 15-31 credit hours from Plant and Soil Science (PLS) or Plant Pathology (PPA) courses. The total credit hours in the major depends upon the student’s Area of Emphasis.

During the sophomore year each student will identify an Area of Emphasis and develop a Plan of Study that details the course work to be taken during the junior and senior years. Examples of Areas of Emphasis include Horticulture Enterprise Management, Crops and Livestock, Crops and Soils, Turfgrass Science, Soil and Water Environmental Science, Horticultural Science, and Plant Pest Management. The Plan of Study must be approved by the undergraduate curriculum committee in the Area of Emphasis.

Subtotal: Area of Emphasis .................................................. 15-31

Electives

Elective courses should be selected by the student to lead to the minimum total of 128 hours required for graduation.

Subtotal: Electives ............................................................. 11

Specialty Support Requirements (21-39 hours)

To be selected from courses (other than PLS or PPA) offered by animal science, entomology, veterinary science, natural resource conservation, landscape architec-
Minor in Agriculture

(Note: At the time of publication, the minor in agriculture was undergoing revision. Interested students should contact the College of Agriculture for more information.)

Students in this minor must complete 21 credit hours, selected from the following list. Courses must be selected from a minimum of three areas to assure diversity.

General Agriculture

(A maximum of two courses)...

AEC 106 Introduction to Animal Sciences...

AEC 101 The Economics of Food and Agriculture...

AEC 102 The Dynamics of Rural Social Life...

PLS 104 Plants, Soils, and People...

A Global Perspective...

GEN 105 Engineering Applications in Agriculture...

For a Global Perspective.

Agricultural Economics

AEC 302 Agricultural Management Principles...

AEC 303 Microeconomic Concepts in Agricultural Economics...

AEC 305 Food and Agricultural Marketing Principles...

AEC 309 International Agriculture, World Food Needs and U.S. Trade in Agricultural Products...

AEC 321 Agricultural Futures Markets...

AEC 422 Agribusiness Management...

Agricultural Engineering

AEN 320 Agricultural Structures...

AEN 340 Principles of Food Engineering...

AEN 345 Crop Drying and Processing...

Animal Sciences

ASC 300 Meat Science...

ASC 360 Genetics...

ASC 382 Principles of Livestock Nutrition...

FSC 306 Introduction to Food Science...

Entomology

ENT 310 Insect Pests of Field Crops...

ENT 320 Horticultural Entomology...

ENT 340 Livestock Entomology...

ENT 402 Forest Entomology...

Entomology

Preprofessional Requirement...

Eco 201 Principles of Economics I...

Minor Requirements

Two courses selected from:

AEC 302 Agricultural Management Principles...

AEC 303 Microeconomic Concepts in Agricultural Economics...

AEC 305 Food and Agricultural Marketing Principles...

In addition, students should select nine hours from other agricultural economics courses. A maximum of three credit hours from AEC 311, 312, 313, 314, 315, or 341 may be credited to the minor. AEC 399 may not be included.

Minor in Animal Sciences

Minor Requirements

ASC 106 Introduction to Animal Sciences...

ASC 120 Introductory Animal Science Laboratory...

ASC 360 Genetics...

ASC 364 Reproductive Physiology of Farm Animals...

ASC 378 Animal Nutrition...

or

ASC 382 Principles of Livestock Nutrition...

Electives (5 hours)

Electives must be selected from the following list:

ASC 300 Meat Science...

ASC 310 Equine Anatomy and Conformation...

ASC 320 Equine Management...

ASC 362 Animal Breeding...

ASC 380 Feeds and Feeding...

ASC 404G Sheep Science...

ASC 406 Beef Cattle Science...

ASC 408G Swine Science...

ASC 410 Equine Science...

ASC 420G Dairy Cattle Science...

ASC 462G Artificial Insemination and Fertility of Farm Animals...

ASC 564 Milk Secretion...

Minor in Entomology

Preminor Requirement...

Two semesters of introductory biology...

Minor Requirements

Required:...

Select the remaining credits (12 hours) from:

ENT 310 Insect Pests of Field Crops...

ENT 320 Horticultural Entomology...

ENT 340 Livestock Entomology...

ENT 350 Integrated Pest Management...

ENT 540 Forest Entomology...

ENT 550 Forest Pathology...

ENT 560 Independent Work...

ENT 574 Advanced Applied Entomology...

ENT 575 Forest Pest Management...

Entomology

Minor in Food Science

Required Courses...

FSC 355 Food Analysis or...

FSC 434G Food Chemistry...

FSC 530 Food Microbiology...

FSC 536 Advanced Food Technology or...

FSC 538 Food Fermentation and Thermal Processing...

Elective Courses

Two of the following:

FSC 360 Introduction to Food Processing...

AEN 340 Principles of Food Engineering...

FSC 535 Food Analysis or...

FSC 434G Food Chemistry or...

FSC 536 Advanced Food Technology or...

FSC 538 Food Fermentation and Thermal Processing...

*If not taken as one of the required courses.

Minor in Pest Management

Prerequisite...

One course from the following:

ASC 320, 404G, 406, 408G, 420G...

PLS 352, 386, 402, 408, 412, 515, 520, 525, 556...

Minor Requirements

 ENT 300 General Entomology...

PLS 404 Integrated Weed Management...

PPA 400G Principles of Plant Pathology...

Select at least nine hours from the following:

ENT 310 Insect Pests of Field Crops...

ENT 320 Horticultural Entomology...

ENT 340 Livestock Entomology...

ENT 402 Forest Entomology...

ENT 530 Integrated Pest Management...

ENT 540 Forest Entomology...

FSC 538 Food Fermentation and Thermal Processing...

PPA 410 Forest Pathology...

PPA 465 Greenhouses and Controlled Environments...

FSC 434G Food Chemistry...

*AEC 311, 312, 313, 314, 315, or 341 may be credited to the minor. AEC 399 may not be included.

Minor in Plant and Soil Science

Preminor Requirement...

CHE 105 General College Chemistry I...

Minor Requirements

Required:...

PLS 352, 366, 367, 386, 402, 408, 412, 515, 520, 525, 556...

plus nine more hours of plant and soil science courses chosen from the following prefixes: PLS, PPA.

Minor in Rural Sociology

Prerequisites

Students must complete SOC 101 or ACE 102 and one other sociology course at the 100 or 200 level.

Any student wishing to minor in rural sociology should file an application with and be interviewed by the Director of Undergraduate Studies in sociology prior to entering the program.

Minor Requirements

Students must complete 15 hours in sociology, at least 12 of which must be at the 300 level or above, including one of the following six-hour blocks:

SOC 302 and SOC 303 or

SOC 304 and SOC 305 or

SOC 302 and SOC 304

College of Agriculture and School of Human Environmental Sciences
College of Agriculture and School of Human Environmental Sciences

PRE-VETERINARY MEDICINE

Students interested in becoming veterinarians may enroll in the College of Agriculture at the University of Kentucky and complete their requirements for admission to veterinary school.

Although the Commonwealth of Kentucky does not have a school of veterinary medicine, it is a participating member of the Southern Regional Education Board plan, under which legal Kentucky residents may attend the Auburn University School of Veterinary Medicine. Each year 34 students are chosen from Kentucky to enter the Auburn program.

There is also a plan whereby two legal Kentucky residents may be accepted by the Tuskegee University School of Veterinary Medicine each year.

Under both of the above programs the students selected are exempt from the out-of-state tuition that would normally apply to a Kentucky resident. Admission is on a competitive basis with the final selection being made by a committee from each of the veterinary schools.

Pre-veterinary studies is not a degree program, but a pre-professional curriculum. It is strongly recommended that all pre-veterinary students choose a degree goal early in their college career. Although it is possible to complete pre-vet requirements in three years, the majority of students accepted to Auburn have a B.S. or B.A. degree.

A minimum of 72 semester hours with an overall grade-point average of 2.50 (on a 4.0 basis) is required prior to consideration for admission. Due to the high level of competition for admission to any veterinary school, a student should maintain at least a 3.0 academic standing on all college work. The overall GPA for students accepted to veterinary schools is approximately 3.45. The student must have completed all of the required courses or acceptable substitutes by June 15 of the year of possible acceptance.

Courses in certain advanced sciences must be taken within six years of entry to Auburn. All required courses must have a grade of “C” or greater.

Auburn applicants can use the Veterinary Medical College Application Service (VMCAS) application, or an Auburn application obtained from Dr. Dwyer after August 1. The deadline for Auburn applications is October 1. Auburn requires the General Aptitude portion of the Graduate Record Examination (GRE). Tuskegee requires a separate application form and the GRE, taken within three years of application.

The following curriculum is designed to meet the requirements for both Auburn and Tuskegee. However, some changes in the pre-veterinary curriculum may go into effect during the school year. The student has the responsibility to work closely with his or her pre-veterinary advisor in making certain that all requirements are met for consideration for acceptance.

All CLEP and advanced placement credit for required courses must have prior approval by Dr. Dwyer. Auburn does not accept correspondence credit for required courses.

Pre-Veterinary Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101 Writing I*</td>
<td>3</td>
</tr>
<tr>
<td>ENG 102 Writing II*</td>
<td>3</td>
</tr>
<tr>
<td>Literature (e.g. ENG 334)**</td>
<td>3 or 6</td>
</tr>
<tr>
<td>Fine Arts (e.g. MUS 100)**</td>
<td>3</td>
</tr>
<tr>
<td>Humantities/Fine Arts electives**</td>
<td>6</td>
</tr>
<tr>
<td>History (e.g. HIS 108/109)**</td>
<td>3 or 6</td>
</tr>
<tr>
<td>Social sciences electives** (e.g. USP Social Sciences plus anthroplogy [Cross-Cultural])</td>
<td>9</td>
</tr>
<tr>
<td>MA 121 Elementary Calculus and Its Applications</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>MA 113 Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

The above courses are waived for students with a B.S. or B.A. degree.

- BIO 150/152 Principles of Biology I and II | 6 |
- BIO 151/153 Principles of Biology Laboratory I and II | 4 |
- CHE 105 General College Chemistry I | 3 |
- CHE 107 General College Chemistry II | 3 |
- CHE 115 General Chemistry Laboratory | 3 |
- CHE 230 Organic Chemistry I | 3 |
- CHE 231 Organic Chemistry Laboratory I | 2 |
- CHE 232 Organic Chemistry II | 3 |
- CHE 233 Organic Chemistry Laboratory II | 2 |
- PHY 211 General Physics | 5 |
- PHY 213 General Physics | 5 |

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASC 378 Animal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>BCH 401G Fundamentals of Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Science Electives**</td>
<td>6</td>
</tr>
<tr>
<td>Tuskegee requires ASC 378, BCH 401G (Biochemistry) and ASC 106 (Introduction to Animal Sciences). *ENG 105 or HON 101/102 can be used. **Students should contact a UK pre-veterinary advisor regarding alternative courses. ***Science electives can include BIO 308, BIO 315, BIO 340, BIO 350 or other upper level science courses which are approved by a pre-veterinary advisor.</td>
<td></td>
</tr>
</tbody>
</table>

Auburn strongly urges students to take organic chemistry and physics courses at a four-year college or university.

All pre-veterinary students that enter veterinary school without obtaining an Animal Science degree and petition UK for one later must fulfill the departmental requirements for an Animal Science degree. In order to be eligible for the B.S. in Animal Science, students must have completed all University Studies courses and all the course requirements of one of the Animal Science options – animal production, dairy production, or equine production. Of the Animal Science courses required, only ASC 300 and 310 can be replaced by the anatomy taken during the course of study at the veterinary school.

Direct further inquiries to:

** Roberta M. Dwyer, DVM, MS
Department of Veterinary Science
Gluck Equine Research Center
College of Agriculture
University of Kentucky

SCHOOL OF HUMAN ENVIRONMENTAL SCIENCES

Human Environmental Sciences provides science-based programs concerned with the interactions of individuals and families within multiple environmental contexts, including social, cultural, economic, and political. The specialized areas of study prepare graduates for professional roles through academic work, practicum or field experience, and research with a focus on improving quality of life for individuals and families throughout the lifespan.

There are three departments in the School of Human Environmental Sciences – Family Studies; Merchandising, Apparel and Textiles; and Nutrition and Food Science. Each department offers both undergraduate and graduate study.

Undergraduate Programs in Human Environmental Sciences

The University of Kentucky grants the following degrees in the School of Human Environmental Sciences:

- Bachelor of Science in Dietetics
- Bachelor of Science in Family and Consumer Sciences
- Bachelor of Science in Family Studies
- Bachelor of Science in Hospitality Management
- Bachelor of Science in Human Nutrition
- Bachelor of Science in Merchandising, Apparel and Textiles

Students pursuing the Bachelor of Science in Family Studies complete a major in interdisciplinary early childhood education.

Minors Offered

The following minors are available:

- Family Studies
- Merchandising, Apparel, and Textiles
- Nutrition

Accreditations and Approvals

All undergraduate programs in the School of Human Environmental Sciences are accredited by the American Association of Family and Consumer Sciences.

Additionally, all programs and facilities which can be accredited or approved have achieved that recognition:

- American Dietetic Association (Dietetics programs – Coordinated Program is accredited, Didactic program is develop-
mentally accredited)

- National Association for the Education of Young Children (the Early Childhood Laboratory)
- National Council for Accreditation of Teacher Education (Programs in Early Childhood Education and Family and Consumer Sciences Education)

Unique Features of the College Facilities and Services
Research Center for Families and Children; Early Childhood Laboratory; Betty D. Eastin Historic Costume Collection; textiles quality research laboratory; The Family Center (personal and marriage counseling); The Lemon Tree Restaurant; and nutrition research laboratories.

Scholarships
Over fifty scholarships are awarded each year to undergraduate and graduate students enrolled in the School of Human Environmental Sciences. Scholarship applications are available from the Student Services Office, 102 Erikson Hall.

Advising
All students are assigned a faculty advisor during their first semester in a program in the School of Human Environmental Sciences. For more information about programs or advising, contact:

School of Human Environmental Sciences
College of Agriculture
102 Erikson Hall
University of Kentucky
Lexington, KY 40506-0050

DEPARTMENT OF FAMILY STUDIES
The Department of Family Studies is committed to offering quality programs for students preparing to work with individuals and families in various settings including schools, private and public social agencies, and business. The focus is on enhancing the quality of life for families. Undergraduate programming is at an applied level using an interdisciplinary approach from the perspectives of individual and family development, family resource management, and family systems.

The department offers two undergraduate majors: (1) family and consumer sciences with options in a family and consumer sciences (non-teaching) and b family and consumer sciences education (teaching); and, (2) interdisciplinary early childhood education.

Students in the family and consumer sciences major earn the degree Bachelor of Science in Family and Consumer Sciences. Students in the interdisciplinary early childhood education major earn the Bachelor of Science in Family Studies. A minor in family studies is available.

The family and consumer sciences non-teaching option, Option A, prepares students to work with individuals and families in unique ways. Positions include coordinators of community education and outreach, crisis management, residential care, family financial management, research and planning, and social service workers. Students completing the program are eligible to apply to become certified family life educators through the National Council on Family Relations. Contact the Department of Family Studies, 315 Funkhouser Building, (859) 257-7750, for more information about this optional credential.

The family and consumer sciences education option, Option B, prepares students for careers in teaching, extension services, adult education, and related activities which focus on teaching. Professional education courses in teaching methods and supervised teaching in family and consumer sciences classes at the middle and high school levels are included in the option. The option is accredited by the National Council for Accreditation on Teacher Education and approved by the Kentucky Department of Education. Students must perform at C grade level or better for all courses required for certification. To be state-certified, candidates must also successfully complete all state-mandated testing requirements.

Continuous Assessment
1. All students in the family and consumer sciences education program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention and Exit from Teacher Education Programs” on page 155.

2. Assessment at the Point of Entry to the FCSE Program. The admission process provides the first point for formal assessment of the competencies outlined in the Initial Certification Program Folio for the program. Students who apply for admission must (a) meet the requirements for admission to the Teacher Education Program, and (b) be able to articulate their philosophy of teaching and document their experiences with youth in an initial portfolio and an entrance interview.

3. On-going Assessment. Once a student is admitted to the program, he/she meets with an advisor to plan the remainder of the program. Prior to the student teaching semester, the student must present a portfolio that documents his/her progress toward meeting program competencies.

4. Exit Assessment. At the exit assessment, students must document that they have met all program competencies through a final review of their portfolio and the successful completion of student teaching in an appropriate school placement.

Statement on Student Teaching
Student teaching in the family and consumer sciences education program is 16 weeks and consists of eight weeks in a middle school family and consumer sciences program, and eight weeks in a high school family and consumer sciences program. Students enroll in: HEE 501 Practicum in Career and Technical Education .............................................. 12

BACHELOR OF SCIENCE IN FAMILY AND CONSUMER SCIENCES
Each student must complete the following:

1. Complete University Studies requirements.
2. Complete the School requirements listed below.
3. Complete 128 credit hours with a minimum grade-point average of 2.0 for Option A (Non-Teacher Certification); minimum grade-point average of 2.5 for Option B (Teacher Certification).
4. Complete the required curriculum in the major program.
5. All students majoring in Family and Consumer Sciences Education must apply and be admitted to the professional Teacher Education Program in order to complete the program. (See the College of Education section in this Bulletin for additional information regarding admission to the Teacher Education Program.)

School Requirements
HES 100 An Introduction to Professions in Human Environmental Sciences ............................ 1
HES 400 Concepts in Human Environmental Sciences: Integration and Application ................... 2
One course in Human Environmental Sciences, outside the student’s major prefix. ....................... 3

Subtotal: School Required Hours ................................. 6

University Studies Requirements
See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Inference-Logic
STA 200 Statistics: A Force in Human Judgment ........... 3
PHI 120 Introductory Logic ........................................ 3

Oral Communication
COM 181 Basic Public Speaking or COM 252 Introduction to Interpersonal Communication ................................. 3

Natural Sciences
BIO 102 Human Ecology ........................................ 3
BIO 103 Basic Ideas of Biology ................................ 3

Social Sciences
FAM 252 Introduction to Family Science .................... 3
PSY 100 Introduction to Psychology .......................... 4
Subtotal: Major Hours ........... minimum of 36

In addition to the Major Requirements, students choose one of two options:

Option A: Family and Consumer Sciences
(Non-Teacher Certification Program)
SOC 101 Introductory Sociology or
ANT 220 Introduction to Cultural Anthropology 3
ECO 201 Principles of Economics 3
ENG 205 Business Writing or
ENG 205 Intermediate Writing 3
FAM 354 The Family in Cross-Cultural Perspective or
FAM 444 Cultural Diversity in American Children and Families 3
FAM 390 Introduction to Research in Family Studies 3
FAM 401 Normal Family Development and Process 3
FAM 402 Family Economics and Management Issues 3
FAM 486 Field Experiences in Family Resource Management or
FAM 499 Internship in Family Life Education 3
FAM 502 Families and Children Under Stress 3
Additional option support within FAM chosen with advisor approval 3

Subtotal: Option A .................. 33

Option B: Family and Consumer Sciences Education
(Teacher Certification Program)
FAM 256 Guidance Strategies for Working With Young Children 3
EDP 203 Teaching Exceptional Learners in Regular Classrooms 3
HED 210 Introduction to Career and Technical Education 3
NFS 204 Principles of Food Preparation 3
HED 508 Methods of Teaching Career and Technical Education I 3
HED 586 Methods of Teaching Career and Technical Education II 3
MAT 120 Textiles for Consumers or

MAT 232 Apparel Production Studio 3
ID 273 Interior Design Awareness 3
HED 501 Practicum in Career and Technical Education 12

Subtotal: Option B .................. 39

Electives
Electives should be selected by the student to lead to the minimum total of 128 hours required for graduation.

Minimum Elective Hours ........... 7

TOTAL HOURS: .......................... 128

BACHELOR OF SCIENCE IN FAMILY STUDIES

Interdisciplinary Early Childhood Education

Requirements for Program

Early Childhood Education is an interdisciplinary program which will prepare educators to work with children, birth through age five, in public pre-primary classes and non-public institutions including day care, private preschool, and private kindergarten. The program is approved by the Kentucky Education Professional Standards Board to prepare graduates to document their experiences with young children in an initial portfolio and an entrance interview.

Option B: Family and Consumer Sciences Education

(Teacher Certification Program)

FAM 256 Guidance Strategies for Working With Young Children 3
EDP 203 Teaching Exceptional Learners in Regular Classrooms 3
HED 210 Introduction to Career and Technical Education 3
NFS 204 Principles of Food Preparation 3
HED 508 Methods of Teaching Career and Technical Education I 3
HED 586 Methods of Teaching Career and Technical Education II 3
MAT 120 Textiles for Consumers 3

MAT 232 Apparel Production Studio 3
ID 273 Interior Design Awareness 3
HED 501 Practicum in Career and Technical Education 12

Subtotal: Option B .................. 39

Electives
Electives should be selected by the student to lead to the minimum total of 128 hours required for graduation.

Minimum Elective Hours ........... 7

TOTAL HOURS: .......................... 128

Continuous Assessment

1. All students in the interdisciplinary early childhood education program are expected to meet the standards and rules for Admission, Retention, and Exit from Teacher Education Programs as set forth in the section “Admission, Retention, and Exit from Teacher Education Programs” on page 155.

2. Assessment at the Point of Entry to the IECE Program. The admission process provides the first point for formal assessment of the competencies outlined in the Initial Certification Program Folio for the program. Students who apply for admission must (a) meet the requirements for admission to the Teacher Education Program, and (b) be able to articulate their philosophy of teaching and document their experiences with young children in an initial portfolio and an entrance interview.

3. On-going Assessment. Once a student is admitted to the program, he/she meets with an advisor to plan the remainder of the program. Prior to the student teaching semester, the student must present a portfolio that documents his/her progress toward meeting program competencies.

4. Exit Assessment. At the exit assessment, students must document that they have met all program competencies through a final review of their portfolio and the successful completion of student teaching in an appropriate school placement for young children with and without disabilities.

Statement on Student Teaching

Student teaching in the Interdisciplinary Early Childhood Education program is 16 weeks and should consist of eight weeks in an infant/toddler program, and eight weeks in a preschool program, including children with and without disabilities. Students will enroll in:

FAM 411 Student Teaching in Early Childhood Education 6
EDS 459 Student Teaching Special Students 6

Subtotal: Student Teaching Hours ......... 12

Degree Requirements

Students in Interdisciplinary Early Childhood Education must complete the following:

1. Complete University Studies requirements.

2. Complete the School requirements listed below.

3. Complete 128 credit hours with a minimum grade-point average of 2.5 (required for teacher certification).

4. Complete the required curriculum in the major program.

5. All students majoring in Interdisciplinary Early Childhood Education must apply and be admitted to the professional Teacher Education Program in order to complete the
program. (See the College of Education section in this Bulletin for additional information regarding admission to the Teacher Education Program.)

School Requirements
HES 100 An Introduction to Professions in Human Environmental Sciences .................................................. 3
HES 400 Concepts in Human Environmental Sciences: Integration and Application ........................................ 2
One course in Human Environmental Sciences, outside the student’s major prefix ........................................... 3
Subtotal: School Required Hours ........................................ 6

University Studies Requirements Hours
See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

oral Communication
COM 181 Basic Public Speaking .................................. 3

Social Sciences
PSY 100 Introduction to Psychology .......................... 4
FAM 252 Introduction to Family Science ........................ 3

Humanities
HIS 108/109 History of the United States Through 1865/Since 1865 ......................................................... 6
Recommended sequence.

Premajor Requirements Hours
*COM 181 Basic Public Speaking .................................. 3
*PSY 100 Introduction to Psychology .......................... 4
*SOC 101 Introduction to Sociology ............................ 3
FAM 120 Introduction to Early Childhood Education .......................................................... 3
*FAM 252 Introduction to Family Science ........................ 3
*STA 200 Statistics: A Force in Human Judgment .......... 3
Subtotal: Premajor Hours ........................................... 22

All students in Interdisciplinary Early Childhood Education must apply, and be admitted to, and be retained in a Teacher Education Program (TEP), and complete a state approved university teacher training program in Early Childhood Education to be eligible for the certification. Students who are interested in certification in Early Childhood Education need to meet with a certification officer in the College of Education prior to completing 60 semester hours to discuss state certification and TEP requirements. A minimum 2.5 cumulative GPA is required to be eligible for admission to TEP. TEP applications will be reviewed for students who have completed, or will complete during the semester in which they apply, 60 semester hours, including EDP 202, EDS 375, FAM 255, and FAM 256 with a grade of C or better. (See the College of Education section of this Bulletin for additional information regarding state requirements and TEP.)

Major Requirements Hours
FAM 255 Child Development ..................................... 3
FAM 256 Guidance Strategies for Working with Young Children .................................................. 3
FAM 260 Curriculum Planning in Early Childhood Education .................................................. 4
FAM 390 Introduction to Research in Family Studies ....... 3
FAM 407 Assessment of Young Children ...................... 2
FAM 544 Cultural Diversity in American Children and Families or EPE 301 Education in American Culture .......... 3
FAM 552 Administration and Supervision in Early Childhood Education Programs ............................ 3
FAM 554 Working With Parents .................................. 3
FAM 555 Fostering Cognitive Development in Children .......................................................... 3
FAM 557 Infant Development ........................................ 3
EDP 302 Human Development and Learning .......................... 3
EDC 317 Introduction to Instructional Media ................. 1
EDS 375 Introduction to Education of Exceptional Children .......................................................... 3
EDS 510 Early Childhood Special Education ........................ 3
EDS 513 Legal Issues in Special Education .................. 3
EDS 516 Principles of Behavior Management and Instruction .......................................................... 3
EDS 530 Moderate and Severe Disabilities ................. 3
LIS 510 Children’s Literature and Related Materials .......... 3
FAM 411 Student Teaching in Early Childhood Education .......................................................... 6
EDS 459 Student Teaching in Special Education ............ 6
Subtotal: Major Hours ........................................... 64

Free Electives
Electives should be selected by the student to lead to the minimum total of 128 hours required for graduation.

Minimum Elective Hours ........................................ 6
TOTAL HOURS .................................................. 128

Minor in Family Studies
Any student interested in a minor in family studies should file an application with the department prior to entering the program.

Minor Requirements
FAM 251 Personal and Family Finance ........................ 3
FAM 252 Introduction to Family Science ........................ 3
FAM 255 Child Development ..................................... 3

Minor Electives
Twelve additional hours in Family Studies from the following with six hours at the 300-, 400- or 500-level:
FAM 250, 253, 254, 256, 354, 357, 383, 357, 383, 509, 553, 554, 563.

DEPARTMENT OF MERCHANDISING, APPAREL, AND TEXTILES

The Department of Merchandising, Apparel, and Textiles is committed to excellence as it prepares students for merchandising, apparel, and textiles positions in an increasingly diverse and technological world. Teaching, research, and service programs support student development and contribute to the economic and social well-being of the Commonwealth, the nation, and the world. The department offers the Bachelor of Science in Merchandising, Apparel, and Textiles. A minor is also available.

BACHELOR OF SCIENCE IN MERCHANDISING, APPAREL, AND TEXTILES

The Merchandising, Apparel, and Textiles program develops graduates who are consumer and technology focused with a global orientation. Students study concepts and develop skills necessary for understanding consumer and market trends, strategies, and industry structures that facilitate the development, sourcing, marketing, and merchandising of consumer goods and services in the domestic and international marketplace.

The curriculum challenges students to think creatively, to learn research and problem solving techniques, and to interact in team efforts, while gaining knowledge of the merchandising process. Students gain awareness of the interrelationships of people, technology, and materials in the dynamic social, economic, and global environment of the merchandising, apparel and textile industry. Course work includes a strong business component, interaction with professionals and field experience. Internships are a required component of the program, which can lead to permanent professional placement. Faculty encourage student participation in industry-sponsored projects related to merchandising and product development.

Each student must complete the following:

1. Complete University Studies requirements.
2. Complete the School requirements listed below.
3. Complete 128 credit hours with a minimum grade-point average of 2.0.
4. Complete the required curriculum in the major program.

School Requirements
HES 100 An Introduction to Professions in Human Environmental Sciences ................................................. 1
HES 400 Concepts in Human Environmental Sciences: Integration and Application .................................. 2
One course in Human Environmental Sciences, outside the student’s major prefix .................................... 3
Subtotal: School Required Hours ........................................ 6

University Studies Requirements Hours
See “University Studies Program” on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Humanities (recommended sequence):
HIS 104 A History of Europe Through the Middle-Seventeenth Century ..................................... 3
HIS 105 A History of Europe From the Middle-Seventeenth Century to the Present .................. 3

Premajor Requirements Hours
Writing course (200 level or above) ............................. 3
*COM 181 Basic Public Speaking .................................. 3
FAM 250 Consumer Issues ........................................ 3
*SOC 101 Introductory Sociology .................................. 3
*PSY 100 Introduction to Psychology .......................... 4
*ECO 201 Principles of Economics I .......................... 3
ECO 202 Principles of Economics II .......................... 3
*STA 200 Statistics: A Force in Human Judgment or **STA 291 Statistical Method .............................. 3
*These courses may also be used to fulfill University Studies requirements.
**MA 123 is a prerequisite to STA 291.
Subtotal: Premajor Hours ........................................ 25

College of Agriculture and School of Human Environmental Sciences
College of Agriculture and School of Human Environmental Sciences

Major Requirements
- MAT 114 Introduction to Merchandising ........... 3
- MAT 120 Textiles for Consumers ..................... 3
- MAT 237 Aesthetics in Merchandising ............... 3
- MAT 247 Dress and Culture ............................. 3
- MAT 312 Merchandising Promotion .................. 3
- MAT 315 Merchandise Planning and Control ........ 3
- MAT 340 Professional Practice ........................ 1
- MAT 350 Problem Solving in Merchandising ........ 3
- MAT 414 Merchandising Strategy Analysis .......... 3
- MAT 420 Consumer Demand in Merchandising ...... 3
- MAT 425 Economics of Merchandise Sourcing ...... 3
- MAT 470 International Merchandising ............... 3
- MAT 490 Internship ........................................ 6
- MAT 515 Specification and Evaluation of Textiles and Apparel .............................................. 3

Subtotal: Major Hours ................................. 43

Professional Support (21 hours)
- ACC 201 Financial Accounting I ....................... 3
- ACC 202 Managerial Uses of Accounting Information ......................................................... 3
- MKT 300 Marketing Management ..................... 3
- MKT 320 Retail and Distribution Management ...... 3
- MGT 301 Business Management ........................ 3
- plus six hours at the 200 level or above to be chosen with approval of the academic advisor from such areas as business, communication and social sciences or additional MAT courses.

Subtotal: Professional Support ......................... 21

Electives
- Electives should be selected to complete the minimum total of 128 hours required for graduation.

Subtotal: Minimum Elective Hours ...................... 6

TOTAL HOURS ................................................. 128

Minor in Merchandising, Apparel, and Textiles

Students interested in this minor should file an application with the department in 318 Erikson Hall.

Minor Requirements
- MAT 114 Introduction to Merchandising ........... 3
- MAT 120 Textiles for Consumers ..................... 3
- MAT 237 Aesthetics in Merchandising ............... 3
- MAT 312 Merchandising Promotion .................. 3
- MAT 315 Merchandise Planning and Control ........ 3
- MAT 350 Problem Solving in Merchandising ........ 3
- MAT 470 International Merchandising ............... 3
- plus three hours from one of the following:
  - MAT 420 Consumer Demand in Merchandising ...... 3
  - MAT 425 Economics of Merchandise Sourcing ...... 3
  - MAT 515 Specification and Evaluation of Textiles and Apparel .............................................. 3

DEPARTMENT OF NUTRITION AND FOOD SCIENCE

The Department of Nutrition and Food Science provides sound undergraduate and graduate programs in foods and nutrition, and is concerned with research and extension services.

The department offers the Bachelor of Science in Dietetics, the Bachelor of Science in Hospitality Management, and the Bachelor of Science in Human Nutrition. A post-baccalaureate dietetic internship is also offered. A minor in nutrition is also available.

BACHELOR OF SCIENCE IN DIETETICS

Dietetics prepares professionals who are recognized for expertise in food and nutrition. Graduates of the Dietetics program function as entry level professionals with opportunities for practice in clinical and community dietetics, food service management, and business.

Students in dietetics choose either Program Option A or B. Both options lead to the Bachelor of Science in Dietetics and fulfill the foundation knowledge and skills requirements established by the Commission on Dietetics Education (CADE) of the American Dietetic Association (ADA) which approves or accredits the programs.

Option A, designated as the Didactic Program in Dietetics (DPD), provides the Foundation Knowledge and Skills for dietetics education. Completion of the didactic curriculum provides “eligibility” to apply for a supervised practice experience which may be an ADA accredited dietetic internship. Students must consider the highly competitive scenario in acquiring acceptance to a supervised practice program. Successful completion of the supervised practice provides “eligibility” to write the national registry examination of the Commission of Dietetic Registration which grants use of the nationally recognized credential “R.D.,” registered dietitian. Option A is “accredited.” Graduates of Option A may compete for placement in the Dietetic Internship program offered by the Department of Nutrition and Food Science or other dietetic internship programs outside the department.

Option B, the Coordinated Program in Dietetics (CP) provides the academic curriculum and the supervised practice experience. Students who have completed the premajor requirements and are interested in the “coordinated” approach to attaining the didactic and supervised practice at UK may apply for admission to the CP in dietetics which requires two years of study combined with supervised practice. Option B, CP, is an “accredited” program for which admission is selective. Graduates of Option B are “eligible” to write the CDR registry examination at the first available examination date.

Admission to the University of Kentucky does not guarantee admission to the Coordinated Program (CP). A limited number of students who have completed the required preprofessional courses will be admitted on the basis of cumulative grade-point average and other criteria indicating potential for becoming a successful dietitian. Application to CP should be made by February 1 prior to potential fall admission. Program application materials should include an application form, a letter of professional goals and qualifications, three letters of reference, and a personal interview. The CP Admissions committee considers grade-point average, letters of recommendation, letter of application, work experience, honors and extracurricular activities. The personal interview evaluates communication skills, knowledge of the profession, goals, organizational and leadership skills.

Applicants will be notified of provisional acceptance before UK’s priority registration dates for the ensuing fall semester. Final acceptance depends on acceptable completion of the work in progress at the time of the application. Transfer students are urged to contact the Student Services Office, 102 Erikson Hall, for a preliminary evaluation of credits well in advance of the application date.

Dietetics Internship Program (DI), an internship, is offered for students who have completed a Didactic Program in Dietetics at UK or other institutions. Qualified graduates may compete for a limited number of positions in the DI. For information regarding the Dietetics Internship Program, the application and screening procedures, contact:

Director
Dietetics Internship Program
Dept. of Nutrition and Food Science
204 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054

Degree Requirements

Each student must complete the following:

1. Complete University Studies requirements.

2. Complete the School requirements listed below.

3. Complete 128 credit hours with a minimum grade-point average of 2.0.

4. Complete the required curriculum in the major program.

School Requirements

HES 100 An Introduction to Professions in Human Environmental Sciences ................................................. 1
HES 400 Concepts in Human Environmental Sciences: Integration and Application ................................... 2
One course in Human Environmental Sciences, outside the student’s major prefix ........................................... 3

Subtotal: School Required Hours .......................... 6

University Studies Requirements

See “University Studies Program” on pages 70-74 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.

Progression Requirements

Students must attain a grade-point average of 2.4 or above to progress into course work designated as major requirements. In addition, students must achieve a grade of C or better in all course work designated as major requirements.
Students must complete the following requirements:

**Premajor Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 152 Principles of Biology II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 208 Principles of Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 115 General Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>2</td>
</tr>
<tr>
<td>CHE 236 Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>COM 181 Basic Public Speaking</td>
<td>1</td>
</tr>
<tr>
<td>COM 252 Introduction to Interpersonal Communication</td>
<td>1</td>
</tr>
<tr>
<td>ECO 201 Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>NFS 201 Introduction to the Dietetics Profession</td>
<td>1</td>
</tr>
<tr>
<td>NFS 204 Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>*NFS 212 Introductory Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 241 Food Service Sanitation</td>
<td>1</td>
</tr>
<tr>
<td>NFS 301 Dietetics Practice</td>
<td>2</td>
</tr>
<tr>
<td>NFS 302 Experimental Foods</td>
<td>1</td>
</tr>
<tr>
<td>NFS 311 Nutritional Biochemistry</td>
<td>1</td>
</tr>
<tr>
<td>NFS 312 Nutrition and Wellness in the Life Cycle</td>
<td>2</td>
</tr>
<tr>
<td>NFS 314 Dietetics: Counseling and Communication</td>
<td>3</td>
</tr>
<tr>
<td>NFS 340 Institutional Purchasing</td>
<td>3</td>
</tr>
<tr>
<td>NFS 342 Quantity Food Production</td>
<td>3</td>
</tr>
<tr>
<td>ACC 201 Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>NFS 346 Human Resources Management for the Food and Hospitality Industries or MGT 301 Business Management</td>
<td>3</td>
</tr>
<tr>
<td>NFS 408G Seminar in Food and Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>NFS 510 Advanced Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>NFS 511 Therapeutic Nutrition</td>
<td>4</td>
</tr>
<tr>
<td>NFS 513 Advanced Therapeutic Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>Subtotal: Major Hours</td>
<td>40</td>
</tr>
</tbody>
</table>

**Option Requirements**

One option must be completed concurrently with the major requirements stated above.

**Option A – Didactic Program in Dietetics (DPD)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFS 480 Dietetics Pre-Professional Practice</td>
<td>1-6</td>
</tr>
<tr>
<td>Subtotal: Option A</td>
<td>1-6</td>
</tr>
</tbody>
</table>

**Option B – Coordinated Program in Dietetics (CP)**

Option B is a selective admission program. See statement above regarding admission procedures and criteria.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFS 800 Nutrition in the Life Cycle: Practicum*</td>
<td>1</td>
</tr>
<tr>
<td>(co-req: NFS 312)</td>
<td></td>
</tr>
<tr>
<td>NFS 808 Community Nutrition: Practicum*</td>
<td>2</td>
</tr>
<tr>
<td>(co-req: NFS 403)</td>
<td></td>
</tr>
<tr>
<td>NFS 810 Therapeutic Nutrition: Practicum*</td>
<td>5</td>
</tr>
<tr>
<td>NFS 812 Food Service Systems: Practicum*</td>
<td>5</td>
</tr>
<tr>
<td>NFS 814 Advanced Food Systems Practicum*</td>
<td>3</td>
</tr>
<tr>
<td>NFS 818 Evaluation of Dietetic Practices*</td>
<td>3</td>
</tr>
<tr>
<td>*800-level course requires admission to CP.</td>
<td></td>
</tr>
<tr>
<td>Subtotal: Option B</td>
<td>21</td>
</tr>
</tbody>
</table>

**Electives**

Electives should be selected by the student to lead to the minimum total of 128 hours required for graduation.

**Subtotal: Minimum Elective Hours** ....................... 1-15

**TOTAL HOURS** ............................................. 128

Requests for applications or further information may be directed to:

**Director, Coordinated Program Department of Nutrition and Food Science**

**204 Funkhouse Building**

**University of Kentucky**

**Lexington, KY 40506-0054**

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**BACHELOR OF SCIENCE IN HOSPITALITY MANAGEMENT**

In the Hospitality Management and Tourism program option in Nutrition and Food Science, which leads to the B.S. in Hospitality Management, students acquire the specialized knowledge needed for careers in the hospitality industry. They also receive training in the basic functions, objectives, and techniques of management. The student is prepared for managerial positions in hotels, restaurants, non-commercial food service and tourism areas, as well as positions as purchasing agents, food service equipment specialists, food service planning specialists, and other careers.

**Entrance Requirement**

The minimum grade-point average for entrance of all students into the Hospitality Management and Tourism program is 2.30.

**Progression Requirement**

In addition, students must have completed the following premajor courses with a grade of C or better in order to progress to courses which are major requirements: CS 101, ACC 201, ACC 202, ECO 201 (fulfills one-half the University Studies social sciences requirement), ECO 202, HMT 120, HMT 210, HMT 270, HMT 280 or NFS 204, and NFS 241.

**Graduation Requirement**

Students must fulfill all prerequisites and achieve a grade of C or better in all NFS and HMT courses which are major requirements.

Each student must complete the following:

1. Complete University Studies requirements.
2. Complete the School requirements listed below.
3. Complete 128 credit hours with a minimum grade-point average of 2.0.
4. Complete the required curriculum in the major program.

**School Requirements**

- HES 100 An Introduction to Professions in Human Environmental Sciences: Integration and Application ........................................... 1
- HES 400 Concepts in Human Environmental Sciences: Integration and Application .................................................. 2

One course in Human Environmental Sciences, outside the student’s major prefix .............................................. 3

**Subtotal: School Required Hours** .......................... 6

**University Studies Requirements**

See "University Studies Program" on pages 70-74 for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

**Math**

- MA 123 Elementary Calculus and Its Applications .......................... 3

**Social Sciences**

- ECO 201 Principles of Economics I ........................................ 3
- plus one other course from University Studies Program social sciences list ..................................................... 3

**Premajor Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA 123 Elementary Calculus and Its Applications</td>
<td>3</td>
</tr>
<tr>
<td>ECO 201 Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>ECO 202 Principles of Economics II</td>
<td>3</td>
</tr>
<tr>
<td>HMT 120 Introduction to Hospitality Management and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HMT 210 Hotel Rooms Division Management</td>
<td>3</td>
</tr>
<tr>
<td>HMT 270 Principles of Travel and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HMT 208 Introduction to Food and Beverage or NFS 204 Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>MA 123 Elementary Calculus and Its Applications (prerequisite for STA 291)</td>
<td>3</td>
</tr>
<tr>
<td>STA 291 Statistical Method</td>
<td>3</td>
</tr>
<tr>
<td>Advanced writing course (200 level or above)</td>
<td>3</td>
</tr>
<tr>
<td>NFS 241 Food Service Sanitation</td>
<td>1</td>
</tr>
<tr>
<td>Subtotal: Premajor Hours</td>
<td>49-51</td>
</tr>
</tbody>
</table>

**Major Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMT 320 Hospitality and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HMT 330 Meetings and Convention Management</td>
<td>3</td>
</tr>
<tr>
<td>HMT 460 Advanced Seminar in Lodging and Tourism</td>
<td>3</td>
</tr>
<tr>
<td>HMT 470 Hospitality and Tourism Law and Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Plus** at least 15 hours selected from the following courses.

- Only three hours of HMT 395 may count for this requirement.
- NFS 340 Institutional Purchasing ........................................... 3
- NFS 346 Basic Management Principles of Food Service .......................... 3
- HMT 320 Hospitality and Tourism Marketing .................................. 3
- HMT 330 Meetings and Convention Management ................................ 3
- HMT 460 Advanced Seminar in Lodging and Tourism .................................. 3
- HMT 470 Hospitality and Tourism Law and Ethics ................................ 3
BACHELOR OF SCIENCE IN HUMAN NUTRITION
with a major in Human Nutrition

The Bachelor of Science in Human Nutrition offers appropriate preparation for further study in nutritional sciences and health-related sciences, particularly public health, preventive medicine, and nutrition research.

Each student must complete the following:

1. Complete University Studies requirements.
2. Complete the School requirements listed below.
3. Complete 128 credit hours with a minimum grade-point average of 2.0.
4. Complete the required curriculum in the major program.

School Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HES 100 An Introduction to Professions in Human Environmental Sciences</td>
<td>1</td>
</tr>
<tr>
<td>HES 403 Concepts in Human Environmental Sciences: Integration and Application</td>
<td>2</td>
</tr>
</tbody>
</table>

Subtotal: School Required Hours: 6

University Studies Requirements

See "University Studies Program" on pages 70-74 for the complete University Studies requirements. Students should work closely with their advisor to complete the University Studies Program requirements.

Premajor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*PSY 100 Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>*MA 113 Calculus I or MA 125 Elementary Calculus and Its Applications</td>
<td>3-4</td>
</tr>
<tr>
<td>*CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>*CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>*CHE 115 General Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 231 Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>CHE 232 Organic Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 233 Organic Chemistry Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>STA 291 Statistical Method</td>
<td>3</td>
</tr>
<tr>
<td>*BIO 150 Principles of Biology I</td>
<td>3</td>
</tr>
<tr>
<td>*BIO 151 Principles of Biology Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>*BIO 152 Principles of Biology II</td>
<td>3</td>
</tr>
<tr>
<td>*BIO 153 Principles of Biology Laboratory II</td>
<td>2</td>
</tr>
<tr>
<td>*COM 181 Basic Public Speaking or COM 287 Persuasive Speaking</td>
<td>3</td>
</tr>
<tr>
<td>PGY 206 Elementary Physiology (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>ANA 209 Principles of Human Anatomy</td>
<td>3</td>
</tr>
</tbody>
</table>

*These courses may also be used to fulfill University Studies requirements.

Subtotal: Premajor Hours: 48

Major Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFS 204 Principles of Food Preparation</td>
<td>3</td>
</tr>
<tr>
<td>NFS 240 Nutrition and Physical Fitness</td>
<td>3</td>
</tr>
<tr>
<td>NFS 241 Food Service Sanitation</td>
<td>1</td>
</tr>
<tr>
<td>NFS 311 Nutritional Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>NFS 312 Nutrition and Wellness in the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>FSC 434G Food Chemistry</td>
<td>3-4</td>
</tr>
<tr>
<td>NFS 304 Experimental Foods</td>
<td>3-4</td>
</tr>
<tr>
<td>NFS 403 Community Nutrition and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>NFS 408G Seminar in Food and Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>NFS 510 Advanced Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 516 Maternal and Child Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 591 Special Problems in Food and Nutrition*</td>
<td>6</td>
</tr>
</tbody>
</table>

*Human Nutrition majors must complete six hours in NFS 591. Minimum credit hours per enrollment is three per academic session. Students must attain junior classification to qualify for enrollment.

Subtotal: Major Hours: 35

Electives

Electives should be selected by the student to complete the minimum total of 128 hours required for graduation.

Subtotal: Minimum Elective Hours: 14-15

TOTAL HOURS: 128

Preminor Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 152 Principles of Biology II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 236 Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>PGY 206 Elementary Physiology (or equivalent)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor Requirements

A minimum of three hours to be chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFS 212 Introductory Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NFS 311 Nutritional Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>NFS 312 Nutrition and Wellness in the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>NFS 510 Advanced Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor Electives

*May be repeated to a maximum of 3 hours.

NOTE: At the time of publication, the minor in nutrition was undergoing revision. Interested students should contact the Department of Nutrition and Food Science for more information.