College of Agriculture, Food and Environment

The research, teaching, extension, and regulatory functions of the College of Agriculture, Food and Environment 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.

Degrees and preprofessional programs in the college encompass 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 sciences.

The School of Human Environmental Sciences is part of the College of Agriculture, Food and Environment. Degree requirements and information pertaining to these programs are listed beginning on page 120.

Admission

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

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.

Students must apply for the Coordinated Program in Dietetics by February 1 prior to potential admission to year three in the Dietetics Program. For additional information, see page 121.

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 page 120 of this Bulletin.

Undergraduate Programs in Agriculture, Food and Environment

The University of Kentucky grants the following degrees in the College of Agriculture, Food and Environment:

- Bachelor of Science in Agriculture
- Bachelor of Science in Agricultural and Medical Biotechnology
- Bachelor of Science in Agricultural Economics
- Bachelor of Science in Animal Sciences
- Bachelor of Science in Career and Technical Education
- Bachelor of Science in Community and Leadership Development
- Bachelor of Science in Dietetics
- Bachelor of Science in Equine Science and Management
- Bachelor of Science in Family Sciences
- Bachelor of Science in Food Science
- Bachelor of Science in Forestry
- Bachelor of Science in Horticulture, Plant and Soil Sciences
- Bachelor of Science in Hospitality Management and Tourism
- Bachelor of Science in Human Nutrition
- Bachelor of Science in Landscape Architecture
- Bachelor of Science in Merchandising, Apparel and Textiles
- Bachelor of Science in Natural Resources and Environmental Science

Information and degree requirements for each program follow. Students may obtain additional information on programs and recommended plans of study from the Office of Academic Programs Advising Resource Centers.

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:

February 1 For fall entry to Coordinated Program

The college offers minors in agricultural economics, community and leadership development, animal sciences, entomology, family sciences, pest management, plant and soil science, and sustainable agriculture.

The college offers an undergraduate certificate in Distillation, Wine and Brewing Studies.

Students majoring in biosystems engineering are enrolled in the College of Engineering. Degree requirements and curriculum are listed in the College of Engineering section of this Bulletin.

See page 121 of this Bulletin for the list of degree requirements for majors in the School of Human Environmental Sciences.

Undeclared Majors

Students who are interested in the College of Agriculture, Food and Environment but are undecided about a major should work closely with an advisor in the college who will assist them in selecting courses that will fulfill general requirements while exploring the various areas of study in agriculture, food and environment.

Scholarships and Financial Aid

The College of Agriculture, Food and Environment 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 college’s research programs in agriculture. Information about scholarships and work opportunities is available in the Office of Academic Programs.

Freshman scholarship applications are due January 15. Upperclass and transfer scholarship applications are due April 1. For more information go to:

http://academics.ca.uky.edu/scholarships
Academic Advising

Students in the College of Agriculture, Food and Environment are advised by selected faculty or academic coordinators in the department of the student’s major. Each student’s academic record is maintained in the Office of Academic Programs Advising Resource Centers in N8 Ag. Science Center or 112 Erikson Hall. Students needing assistance selecting an advisor or general information about academics may go to either of the Office of Academic Programs Advising Resource Centers.

Inquiries about programs or majors within the College of Agriculture, Food and Environment may be directed to:

College of Agriculture, Food and Environment  
Office of Academic Programs  
N6 Ag. Science Building – North  
University of Kentucky  
Lexington, KY 40546-0091  
(859) 257-3468 or (859) 257-3469

Dean’s List

A student who completes at least 12 credits of “letter” grades with a 3.50 or higher grade-point average with no I grades listed for the fall or spring semester will be named to the Dean’s List in the College of Agriculture, Food and Environment. CLEP, AP, special exam and Independent Study credits are excluded. The student’s cumulative grade-point average is not considered; only the grade-point average for that particular semester is relevant. Exceptional circumstances including fewer than 12 credits will be considered for inclusion on the Dean’s List; students should submit a petition to either Advising Resource Center in 112 Erikson Hall or N8 Ag Science Center.

Graduate Work

The College of Agriculture, Food and Environment offers a Master of Science degree in the following areas: Agricultural Economics, Animal and Food Sciences, Biosystems and Agricultural Engineering, Community and Leadership Development, Entomology, Family Sciences, Forestry, Integrated Plant and Soil Science, Nutrition and Food Systems, Plant Pathology, Retailing and Tourism Management, and Veterinary Science.

Doctor of Philosophy degrees are offered in the following areas: Agricultural Economics, Animal and Food Sciences, Biosystems and Agricultural Engineering, Entomology, Family Sciences, Integrated Plant and Soil Science, Plant Pathology, and Veterinary Science. For more information, visit the Graduate School Web site at: www.research.uky.edu/gs/.

MINIMUM REQUIREMENTS FOR GRADUATION

NOTE: The following graduation requirements do not apply to degree programs in the School of Human Environmental Sciences; those requirements are described in the corresponding section of this Bulletin. Except where noted in specific degree programs, all students pursuing a Bachelor of Science degree in the College of Agriculture, Food and Environment must complete:

1. the UK Core and University graduation requirements;
2. GEN 100: Issues in Agriculture, Food and Environment required for all first semester Freshmen. Students who transfer into the College and have already completed the Freshman US Citizenship requirement are not required to take GEN 100;
3. a minimum of 120 credit hours with at least a 2.0 grade-point average. Some programs may require more than the minimum 120 credit hours and have other grade-point average requirements. Remedial courses may not be counted toward the total hours required for the degree;
4. an Agriculture Major with a minimum of 24 hours including 3 hours in a 400-level capstone course;
5. a core of specialty or professional support courses outside the major department totaling at least 18 hours at the 200 level or above; and
6. a minimum of 45 credit hours from upper division courses (300 and above).

B.S. in Agriculture with a major in INDIVIDUALIZED PROGRAMS

Individualized program opportunities have been developed to assist students with academic goals that cross several disciplines. Students pursuing the Bachelor of Science in Agriculture may pursue an individualized program in agriculture such as Entomology, Modern Agronomic Crop Production, Sustainable Agriculture or Technical Systems Management.

The procedure for entering an individualized program is as follows:

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 individualized program option.

For more information, contact:

College of Agriculture, Food and Environment  
Office of Academic Programs  
N6 Ag. Science Building – North  
University of Kentucky  
Lexington, KY 40546-0091  
(859) 257-3468 or (859) 257-3469

BACHELOR OF SCIENCE IN AGRICULTURAL AND MEDICAL BIOTECHNOLOGY

Agricultural and medical 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 and Medical 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: microbiological, 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 and Medical Biotechnology the student must complete 128 semester hours with at least a 2.0 grade-point standing. A minimum of 45 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 UK Core requirements, students must complete college, premajor, major, and specialty support requirements, including an independent research project relevant to the student’s interest in biotechnology.
College of Agriculture, Food and Environment

UK Core Requirements
See the UK Core section of this Bulletin for the complete
UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list .................3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ..................3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ..................3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
CHE 105 General College Chemistry I ..................4
CHE 111 Laboratory to Accompany General Chemistry I ..........1

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ..........3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ..........3

VII. Quantitative Foundations
MA 123 Elementary Calculus and Its Applications or
MA 113 Calculus I or
MA 137 Calculus I
With Life Science Applications ..........................4

VIII. Statistical Inference Reasoning
STA 296 Statistical Methods and Motivations or
BST 330 Statistical Thinking for Population Health ..........3

IX. Community, Culture and Citizenship in the USA
GEN 100 Issues in Agriculture, Food and Environment ..........3

X. Global Dynamics
Choose one course from approved list ..................3

UK Core hours .................................................33

Graduation Composition and Communication Requirement (GCCR)
ABT 201 Scientific Method in Biotechnology ................1
ABT 301 Writing and Presentations in the Life Sciences ........2

Graduation Composition and Communication Requirement hours (GCCR) ................3

Premajor Requirements Hours
BIO 148 Introductory Biology I ................................3
BIO 152 Principles of Biology II ................................3
BIO 155 Laboratory for Introductory Biology I ...............1
CHE 105 General College Chemistry I .......................4
CHE 107 General College Chemistry II .....................3
CHE 111 Laboratory to Accompany General Chemistry I ..........1
CHE 113 Laboratory to Accompany General Chemistry II ..........2
CHE 230 Organic Chemistry I ....................................3
CHE 231 Organic Chemistry Laboratory I ......................1
CHE 232 Organic Chemistry II ....................................3
CHE 233 Organic Chemistry Laboratory II .....................1
MA 123 Elementary Calculus and Its Applications or
MA 113 Calculus I or
MA 137 Calculus I With Life Science Applications ..........4

PHY 211 General Physics .......................................5
PHY 213 General Physics .......................................5
(or equivalent with laboratory)

Subtotal: Premajor hours .........................39-42

Major Requirements Hours
Biotechnology
ABT 101 Introduction to Biotechnology ..................1
ABT 201 Scientific Method in Biotechnology ...............1
ABT 301 Writing and Presentations in the Life Sciences ..........2

Microbiology
BIO 208 Principles of Microbiology ......................3
BIO 209 Principles of Microbiology Laboratory ................2

Biochemistry
BCH 401G Fundamentals of Biochemistry ................3

Genetics
ABT 120 Genetics and Society ................................3
ABT/ENT 360 Genetics or
BIO 304 Principles of Genetics ..............................3-4

ABT 460 Introduction to Molecular Genetics .................3
ABT 461 Introduction to Population Genetics ................3

Statistics
STA 296 Statistical Methods and Motivations or
BST 330 Statistical Thinking for Population Health ..........3

Advanced Practical Skills
ABT 495 Experimental Methods in Biotechnology or
BIO 510 Recombinant DNA Techniques Laboratory ..........4

Independent Study
ABT 395 Independent Study in Biotechnology or
ABT 399 Experiential Learning in Biotechnology ..........3

All students are expected to undertake an independent study or 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 .........................34-35

Specialty Support Hours
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.

ASC 364 Reproductive Physiology of Farm Animals ..........4
BIO 315 Introduction to Cell Biology ..........................4
BIO 350 Animal Physiology ......................................4
BIO/PGY 502 Principles of Systems, Cellular and Molecular Physiology ..........5

Subtotal: Specialty Support hours ..................21

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

Subtotal: Electives .................................128

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

BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS

The Agricultural Economics program enables graduates to pursue careers in agribusiness and food industries, international marketing and trade, or 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 120 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 45 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 UK Core requirements, students must complete college, departmental and support requirements.

UK Core Requirements
See the UK Core section of this Bulletin for the complete
UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ..................3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ..................3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ..................3

IV. Intellectual Inquiry in the Natural, Physical, or course from approved list ..................3

ECO 101 Contemporary Economic Issues or course from approved list ..................3

IV. Intellectual Inquiry in the Natural, Physical, or course from approved list ..................3

ECO 101 Contemporary Economic Issues or course from approved list ..................3

IV. Intellectual Inquiry in the Natural, Physical, or course from approved list ..................3

ECO 101 Contemporary Economic Issues or course from approved list ..................3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ..........3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ..........3

VII. Quantitative Foundations
MA 123 Elementary Calculus and Its Applications or
MA 113 Calculus I ..................................................4

VIII. Statistical Inference Reasoning
STA 296 Statistical Methods and Motivations ................3
Electives
Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation.

Subtotal: Electives .......................... 16

TOTAL HOURS: .......................... 120

Option B – Agribusiness Management and Food Marketing

A student in this option should be qualified for careers in marketing, sales, and management of farms or firms involved in production, financing, processing, marketing and distribution of food and agricultural products, depending on the electives chosen.

Premajor Requirements

CS 101 Introduction to Computing I ................................ 3
ECO 201 Principles of Economics I .................................. 3
ECO 202 Principles of Economics II ................................. 3
MA 113 Calculus I ............................................................ 4

OR

MA 123 Elementary Calculus and Its Applications and
MA 162 Finite Mathematics and Its Applications ............................ 7
STA 296 Statistical Methods and Motivations .......................... 3
ECO 391 Economic and Business Statistics ............................ 3

Subtotal: Premajor hours .......................... 19-22

Major Requirements

Hours

Notes: Students must have a C or higher in ECO 201 to enroll in the core classes and a C or higher in ECO 201 and MA 123 to enroll in AEC 303. 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 306 Technical Communication in Economics ...................... 2
AEC 409 Quantitative Methods and Price Analysis .......................... 3
plus, after completing AEC 302 or AEC 303 or AEC 305:
AEC 301 Career Readiness for Agricultural Economics .......................... 1

plus one of the following:
AEC 395 Independent Research in Agricultural Economics
AEC 396 International Studies in Agricultural Economics
AEC 399 Experimental Learning in Agricultural Economics .......................... 1-3
plus 12 additional hours in the major
(at least 3 hours at 400+ level) ........................................ 12

Subtotal: Major hours .......................... 31

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, AN, ASC, BAE, COM, CS, 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 120 hours required for graduation.

Subtotal: Electives .......................... 16

TOTAL HOURS: .......................... 120

BACHELOR OF SCIENCE IN ANIMAL SCIENCES

Animals have many important roles in human societies including the provision of food and fiber, draft power, recreational and athletic activities, and companionship. In addition, animals and their interactions with humans have environmental consequences. Processing, preservation, and quality of animal-derived foods significantly affect human health and economics. Animal Sciences involves studying and applying the basic principles of nutrition, reproduction, and genetics to the production and management of animals including horses, dairy and beef cattle, sheep, swine, poultry, and other domesticated species. Additional course work provides information on production and handling of animal-derived foods.

No one program fits all Animal Sciences students. Students come from varied backgrounds and their 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 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.

As an Animal Sciences major, students have the opportunity to pursue specific interests by selecting one of three study options: Animal Industry, Food Industry or Pre-Professional. The Animal Industry option is for those students interested in animal production and management and allows specialization in one of three areas: livestock, equine, or dairy. The Food Industry option is designed to provide an emphasis on aspects of food processing, chemistry, and safety. The Pre-Professional option is a rigorous study program for students with interests in veterinary sciences, human medicine, and graduate research. Students must consult the pre-professional advisor or graduate school advisor of the university to which they intend on applying for additional or specific requirements.

Career Opportunities

To keep pace with the food, fiber, and recreation requirements of a growing world population, Animal Sciences graduates are needed in the livestock industry and closely related fields. The Animal Sciences major offers considerable flexibility in fulfilling specific career objectives, whether you are interested in working directly with livestock or indirectly in closely related areas such as agribusiness, research, government, or education.

Graduation Requirements

To earn the Bachelor of Science in Animal Sciences, the student must have a minimum of 120 credit hours with at least a 2.0 grade-point standing. A minimum of 45 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 UK Core requirements, students must complete college, departmental and specialty support requirements. Each student must complete the following:

**UK Core Requirements**

See the UK Core section of this Bulletin for the complete UK Core requirements. The course listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

**I. Intellectual Inquiry in Arts and Creativity**

Choose one course from approved list .......................... 3

**II. Intellectual Inquiry in the Humanities**

Choose one course from approved list .......................... 3

**III. Intellectual Inquiry in the Social Sciences**

Choose one course from approved list .......................... 3

**IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences**

CHE 105 General College Chemistry I ....................... 4
CHE 111 Laboratory to Accompany General Chemistry I ......................... 1

**V. Composition and Communication I**

CIS/WRD 110 Composition and Communication I ........ 3

**VI. Composition and Communication II**

CIS/WRD 111 Composition and Communication II ........ 3

**VII. Quantitative Foundations**

MA 121 Elementary Calculus and Its Applications or MA 113 Calculus I or MA 137 Calculus I With Life Science Applications .......... 4

**VIII. Statistical Inferential Reasoning**

Recommended: STA 210 Making Sense of Statistical Reasoning: An Introduction to Statistical Reasoning .......................... 3

**IX. Community, Culture and Citizenship in the USA**

GEN 100 Issues in Agriculture, Food and Environment ........................................... 3

**X. Global Dynamics**

Choose one course from approved list .......................... 3

**UK Core hours .......................................................... 33**

**Graduation Composition and Communication Requirement (GCCR)**

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

Graduation Composition and Communication Requirement hours (GCCR) .......................... 3

**Premajor Requirements**

**Hours**

MA 121 Elementary Calculus and Its Applications or MA 113 Calculus I or MA 137 Calculus I With Life Science Applications .......... 4
BIO 148 Introductory Biology I .................................. 3
BIO 152 Principles of Biology II ................................. 3
CHE 105 General College Chemistry I ......................... 4
CHE 107 General College Chemistry II ....................... 3
CHE 111 Laboratory to Accompany General Chemistry I ................................. 1
CHE 113 Laboratory to Accompany General Chemistry II ........................................... 2

**Subtotal: Premajor hours ........................................... 20**

**Major Requirements**

**Hours**

ASC 101 Domestic Animal Biology ......................... 3
ASC 102 Introduction to Livestock and Poultry Production ........................................... 3
ASC 205 Career Development for Animal Sciences .... 1
ASC 325 Animal Physiology ................................ 3
ASC 362 Animal Breeding and Genetics ................. 4
ASC 364 Reproductive Physiology of Farm Animals .... 4
ASC 378 Animal Nutrition and Feeding .................. 4
ASC 470 Capstone for Animal Agriculture .............. 3
ASC 499 Academic Enrichment Experience in Animal Sciences ........................................... 1

plus at least three of the following courses:

ASC 340 Poultry Production .................................. 2
ASC 404G Sheep Science ........................................ 4
ASC 406 Beef Cattle Science .................................. 4
ASC 408G Swine Production .................................. 3
ASC 410G Equine Science ..................................... 3
ASC 420G Dairy Cattle Management ...................... 3

**Subtotal: Major hours ........................................... 34-38**

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

**OPTIONS**

**Option A – Animal Industry**

Students fulfilling the Major Requirements are eligible for the Animal Industry Option by taking certain required Specialty Support Courses (see below). In addition, students with more specific interests may, but are not required to, choose from three specializations available within this Option.

**No Specialization**

(required Specialty Support only; see below) .......... 0

**Livestock Specialization**

ASC 300 Meat Science ........................................ 4

and at least two from:

ASC 340 Poultry Production .................................. 2
ASC 404G Sheep Science ........................................ 4
ASC 406 Beef Cattle Science .................................. 4
ASC 408G Swine Production .................................. 3

**Equine Specialization**

ASC 310 Equine Anatomy ..................................... 2
ASC 320 Equine Management ................................ 3
ASC 410G Equine Science ..................................... 3

**Dairy Specialization**

ASC 420G Dairy Cattle Management ...................... 3
ASC 564 Milk Secretion ........................................ 3

**Subtotal: Option A hours ........................................... 0-5**

**Option B – Food Industry**

Students fulfilling the Major Requirements are eligible for the Food Industry Option by taking certain required Specialty Support Courses (see below) and:

ASC 300 Meat Science ........................................ 4
FSC 107 Introduction to Food Science ..................... 3

**Subtotal: Option B hours ........................................... 7**

**Option C – Pre-Professional**

Students fulfilling the Major Requirements are eligible for the Pre-Professional Option by taking certain Specialty Support Courses (see below). Students must consult the pre-professional advisor or graduate school advisor of the university to which they intend on applying for additional or specific requirements.

**Subtotal: Specialty Support ........................................... 18-22**

**Electives**

Electives should be selected to complete the 120 hours required for graduation.

**Subtotal: Electives ........................................... minimum of 18**

**TOTAL HOURS: ............................................... 120**

**BACHELOR OF SCIENCE IN BIOSYSTEMS ENGINEERING**

Biosystems engineering provides an essential link between the biological sciences and the engineering profession. This linkage is essential for the development of production and processing systems involving biological materials that preserve our natural resource base. Students have the latitude to develop an area of specialization relating to bioenvironmental engineering, food and bioprocessing, machine systems, or controlled environment engineering. The curriculum is also ideal preparation for those students wanting to pursue a graduate or professional degree in biomedical engineering or veterinary medicine through pre-biomedical engineering and pre-veterinary medicine options.

The degree requirements and curriculum are listed in the *College of Engineering* section of this Bulletin.
Students pursuing a degree in Career and Technical Education complete courses in education and agriculture. Graduates with this degree pursue careers in both formal and informal education of agriculture. Formal education opportunities include teaching in the middle school or high school classroom. Informal education opportunities include working in Extension and the public or private sectors of industry. In addition to receiving the degree, graduates attain Rank III teaching certification in Agricultural Education.

**Teacher Certification**

Besides receiving the B.S. in Career and Technical Education, students completing the requirements obtain a letter of endorsement to teach agricultural education.

**Requirements for teacher certification** are as follows:

You must be admitted to the teacher education program (TEP) after you have completed, or complete during the semester in which you apply, 60 semester hours of course work and AED/FCS 110 Introduction to Career and Technical Education and have at least a 2.75 grade-point standing (on a 4.0 scale). See a full description of “Admission, Retention, and Completion from Teacher Education Programs” in the College of Education section of this Bulletin.

Applicants are evaluated on an interview, recommendations, scholastic achievement, demonstrated skills, and professional commitment and goals. A student’s progress is continuously monitored, assessed, and reviewed throughout the teacher education program as described in the Teacher Education Programs section of this Bulletin. You must successfully complete assessment items and portfolio items as required. Further, you must successfully complete the Principles of Learning and Teaching Exam and a professional 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.

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

**Graduation Requirements**

To earn the Bachelor of Science in Career and Technical Education, the student must have a minimum of 120 credit hours with at least a 2.75 grade-point average (required for Teacher Certification). A minimum of 45 credit hours must be from upper division courses (300 level and above). Remedial courses may not be counted toward the total hours required for the degree.

Students must complete the following:

**UK Core Requirements**

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity

Choose one course from approved list ................................ 3

II. Intellectual Inquiry in the Humanities

Choose one course from approved list ................................ 3

III. Intellectual Inquiry in the Social Sciences

CLD 102 The Dynamics of Rural Social Life .......................... 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences

Choose one course from approved list ................................ 3

V. Composition and Communication I

CIS/WRD 110 Composition and Communication I .................. 3

VI. Composition and Communication II

CIS/WRD 111 Composition and Communication II .................. 3

VII. Quantitative Foundations

Choose one course from approved list ................................ 3

VIII. Statistical Inferential Reasoning

STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning ........................................... 3

IX. Community, Culture and Citizenship in the USA

GEN 100 Issues in Agriculture, Food and Environment ............. 3

X. Global Dynamics

Choose one course from approved list ................................ 3

UK Core hours ..................................................................... 30

**Graduation Composition and Communication Requirement (GCCR)**

AED/FCS 583 Designing Curriculum and Assessment in Career and Technical Education ............................................ 3

Graduation Composition and Communication Requirement hours (GCCR) ....................................................... 3

**Major Requirements**

AED/FCS 110 Introduction to Career and Technical Education ................................................................. 3

AED/FCS 362 Field Experiences in Career and Technical Education ............................................................ 3

AED/FCS 371 Advising a Career and Technical Student Organization .......................................................... 3

AED/FCS 580 Foundations of Teaching Career and Technical Education ....................................................... 3

AED/FCS 583 Designing Curriculum and Assessment in Career and Technical Education .......................... 3

AED/FCS 586 Methods of Teaching Career and Technical Education ............................................................ 3

AED/FCS 592 Teaching Experience in Career and Technical Education .......................................................... 3

EDP 203 Teaching Exceptional Learners in Regular Classrooms .......................................................... 12

EDP 357 Adolescent Development ......................................... 3

**Subtotal: Major Required hours .................................. 36

**Agricultural Education Requirements**

* AEC 302 Agricultural Management Principles .................. 4
* AEN 252 Fabrication and Construction for Technical Systems .......................................................... 3
* ASC 101 Domestic Animal Biology .................................. 3
* ASC 102 Introduction to Livestock and Poultry Production .......................................................... 3

CLD 102 The Dynamics of Rural Social Life (or other Social Science elective) ........................................... 3

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

PLS 210 The Life Processes of Plants ......................................... 3

PLS 386 Plant Production Systems ......................................... 3

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

**Subtotal: Agricultural Education hours .......................... 26-27

*AEC 201 is a prerequisite for AEC 302.

**CHE 105 is a prerequisite for PLS 366.

**Specialty Support Requirements**

Students must complete one additional agricultural economics course, one additional animal sciences course, one additional agricultural engineering course, two additional plant and soil sciences courses, and three additional courses in the College of Agriculture, Food and Environment in consultation with your advisor.

**Subtotal: Specialty Support ............................................. 24

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

**Electives**

Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation.

**Subtotal: Electives ........................................... minimum of 7

Total Minimum Hours for Program ................................ 120

**BACHELOR OF SCIENCE IN COMMUNITY AND LEADERSHIP DEVELOPMENT**

Community and Leadership Development is an interdisciplinary social science major. It provides students with the knowledge and skills to integrate communications, sociology, journalism, and community development theories and apply them to real-world situations involving local communities and agricultural organizations.

The major focuses on such skills as written and oral communication; strategic problem solving; critical thinking; understanding of group, organizational, and community dynamics; and ethical decision making.

**Graduation Requirements**

To earn the Bachelor of Science in Community and Leadership Development, the student must have a minimum of 120 credit hours with at least a 2.0 grade-point average. A minimum of 45 credit hours must be from upper division courses (300 level and above). Remedial courses may not be counted toward the total hours required for the degree.

Students must complete the following:

**UK Core Requirements**

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

The UK Core courses listed below are recommended by the College to fulfill each area.

**Other**
I. Intellectual Inquiry in Arts and Creativity
Choose one of the following:
A-S 245 Introduction to Web Design
A-S 280 Introduction to Photographic Literacy
LA 111 Living on the Right Side of the Brain

II. Intellectual Inquiry in the Humanities
Choose one of the following:
ENG 230 Introduction to Literature (Subtitle required)
ENG 264 Introduction to Black Writers
GWS 201 Gender and Popular Culture
HIS 112 The Making of Modern Kentucky
MCL 100 The World of Language

III. Intellectual Inquiry in the Social Sciences
CLD 102 The Dynamics of Rural Social Life

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one of the following:
PLS 104 Plants, Soils, and People: A Science Perspective
ANT 230 Introduction to Biological Anthropology
BIO 102 Human Ecology
GEO 130 Earth’s Physical Environment
GEO 135 Global Climate Change
EES 120 Sustainable Planet: The Geology of Natural Resources

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II

VII. Quantitative Foundations
MA 111 Introduction to Contemporary Mathematics
or
MA 123 Elementary Calculus and Its Applications

VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning
or
PSY 215 Experimental Psychology
and
PSY 216 Applications of Statistics in Psychology

IX. Community, Culture, and Citizenship in the USA
CLD 360 Environmental Sociology
or
GEN 100 Issues in Agriculture, Food and Environment

X. Global Dynamics
CLD 380 Globalization: A Cross-Cultural Perspective

UK Core hours: 30-36

Graduation Composition and Communication Requirement (GCCR)
CLD 305 Research Methods in Community and Leadership Development
CLD 497 Professional Practicum in Community and Leadership Development

Graduation Composition and Communication Requirement hours (GCCR): 6

Premajor Requirements: Hours
CLD 100 Introduction to Community and Leadership Development
CLD 225 Community and Communication: Exploring Their Interactions
CLD 230 Intrapersonal Leadership
CLD 260 Community Portraits

Students must earn at least a C in the above four courses before they will be admitted to any upper-division courses in the program.

Students in Career and Technical Education who are admitted into the Teacher Education Program would also be able to register for upper-division courses in the program.

Subtotal: Premajor Requirements: 10

Major Requirements: Hours
CLD 300 Foundational Theories in Community and Leadership Development
CLD 305 Research Methods in Community and Leadership Development
CLD 362 Field Experience in CLD
CLD 370 Learning in Society
CLD 490 Senior Seminar in Community Communications and Leadership Development
CLD 497 Professional Practicum in Community and Leadership Development

Students must choose 18 hours of additional CLD courses from the following list:
CLD 325 Writing for Community Media
CLD 330 Interpersonal Skills for Tomorrow’s Leaders
CLD 340 Community Interaction
CLD 375 Contemporary Adult Learning
CLD 420 Sociology of Communities
CLD 430 Leading in Communities: Vision, Action, and Change
CLD 440 Community Processes and Communication
CLD 460 Community Development and Change
CLD 465 Topics in Community Communications (Subtitle required)
CLD 470 Topics in Leadership (Subtitle required)
CLD 475 Topics in Non-Formal Education (Subtitle required)
CLD 480 Topics in Community (Subtitle required)
CLD 525 Community Diversity and Media
CLD 530 Fundamentals of Organizational Leadership
CLD 560 Community Inequalities
CLD 575 Schools, Community and Society
plus other CLD courses such as CLD 360, CLD 401, CLD 517, CLD 534.

Subtotal: Major Requirements: 36

Specialty Support Requirements
Depending on the student’s area of interest and subject to his/her academic advisor’s approval, he/she will complete an additional 6 hours of courses in the College of Agriculture, Food and Environment and 12 hours in related areas at the 200 level or higher.

Subtotal: Option Specialty Support: 18

Electives
Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation
Subtotal: Electives: minimum of 23
Total Minimum Hours for Program: 120

BACHELOR OF SCIENCE IN EQUINE SCIENCE AND MANAGEMENT

The horse industry is a dynamic industry that encompasses not only the breeding, raising and training of horses but also the development of activities for the use of the horse in sports and recreation. The industry has a significant economic impact across the U.S. and world-wide.

Equine science and management involves the study and application of science and business concepts to the horse industry. Additional course work supports learning in areas that aid in breeding and raising horses and marketing the industry. Students come from varied equine backgrounds but have a common interest in the horse. Regardless of which breed of horse or activity focus students have, equine science and management majors will have the opportunity to combine their interest in the horse with a desire to become active participants in the horse industry.

Students in equine science and management considering a career in veterinary medicine or graduate research can meet those goals in the degree program as well. Interested students need to consult with an advisor to ensure all specific academic requirements are met.

Career Opportunities
The horse industry is continually changing. Equine science and management graduates are needed in all aspects of the industry including production, business management and other related support industries.

Graduation Requirements
To earn the Bachelor of Science in Equine Science and Management, the student must have a minimum of 120 credit hours with at least a 2.0 grade-point average. A minimum of 45 credit hours must be from upper division courses (300 level and above). Remedial courses may not be counted toward the total hours required for the degree.

Students must complete the following:

UK Core Requirements
See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list

II. Intellectual Inquiry in the Humanities
Choose one course from approved list

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose course(s) from approved list

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I
Community Leadership and Development

Students who are interested in leadership roles in business, breed associations or non-profit equine organizations and cooperative extension should consider this area. They will enhance their communication skills and be required to take courses in community dynamics, leadership development, and agriculture communication.

CLD 100 Introduction to Community and Leadership Development .................................. 1
CLD 102 The Dynamics of Rural Social Life ................................................................. 1
CLD 225 Community and Communication: Exploring Their Intersections ...................... 3
CLD 230 Intrapersonal Leadership .................................................................................. 3
CLD 260 Community Portraits ....................................................................................... 3
CLD 401 Principles of Cooperative Extension .................................................................. 3
EQM 300 Topics in Equine Science and Management .................................................. 1-6

Equine Business

Students will learn skills related to marketing, operations, and management of equine businesses. This will prepare students for careers as farm managers as well as business managers for equine enterprises, breed associations, and sales associations. This area also introduces them to the diversity of the equine industry through courses in equine law, sales, careers, event planning, marketing, and human resources.

* AEC 300 Special Topics in Agricultural Economics (Subtitle required) ........................................... 3
* AEC 305 Food and Agricultural Marketing Principles .......................................................... 3
* AEC 320 Agricultural Product Marketing and Sales or MKT 300 Marketing Management ........ 3

Graduation Composition and Communication Requirement (GCCR) .............................. 3

Graduation Composition and Communication Requirement hours (GCCR) ................. 3

Electives

Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation

Subtotal: Electives .................................................. minimum of 6

Total Minimum Hours for Program .......................................................... 120

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 and Food 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 45 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. Each student must complete the following:

**UK Core Requirements**

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ............................ 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ............................ 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ............................ 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences

- CHE 105 General College Chemistry I ............................ 4
- CHE 111 Laboratory to Accompany General Chemistry I ............................ 1

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ............................ 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ............................ 3

VII. Quantitative Foundations

- MA 113 Calculus I ............................ 4
- MA 123 Elementary Calculus and Its Applications
- MA 137 Calculus I With Life Science Applications
- STA 296 Statistical Methods and Motivations ............................ 3

Subtotal: Premajor hours ............................ 37

Major Requirements

- FSC 107 Introduction to Food Science ............................ 3
- FSC 306 Introduction to Food Processing ............................ 4
- FSC 395 Special Problems in Food Science ............................ 3
- FSC 399 Experiential Learning in Animal Sciences/Food Science ............................ 3
- EXP 396 Experiential Education ............................ 3-6
- FSC 434G Food Chemistry ............................ 4
- FSC 530 Food Microbiology ............................ 5
- FSC 535 Food Analysis ............................ 4
- FSC 536 Advanced Food Technology ............................ 4
- plus at least three of the following courses:
  - FSC 304 Animal Food Products ............................ 4
  - FSC 430 Sensory Evaluation of Foods ............................ 3
  - FSC 538 Food Fermentation and Thermal Processing ............................ 4
  - FSC 540 Food Sanitation ............................ 3

Subtotal: Major hours ............................ 38-41

Specialty Support

- AEN 340 Principles of Food Engineering ............................ 4
- DHN 311 Nutritional Biochemistry
- BCH 401G Fundamentals of Biochemistry ............................ 3
- PHY 211 General Physics ............................ 5
- plus two of the following courses:
  - AEC 305 Food and Agricultural Marketing Principles ............................ 3
  - ASC 300 Meat Science ............................ 4
  - CLD 230 Intrapersonal Leadership
  - CLD 340 Community Interaction ............................ 3

Subtotal: Specialty Support ............................ 18-19

Electives

Elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

Subtotal: Electives ............................ 6

TOTAL HOURS: ............................ 120

**BACHELOR OF SCIENCE IN FORESTRY**

**NOTE:** At the time of publication, the B.S. in Forestry program below had been provisionally approved by the Senate.

Pending approval by the Southern Association of Colleges and Schools Commission on Colleges.

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 interrelated 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 land owners 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**

To earn the Bachelor of Science in Forestry, the student must complete a minimum of 121 semester hours. 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.

Students will complete a field semester in the spring of their junior year. Throughout the spring field semester, students will visit numerous sites to see different ecosystems in the region. Students will periodically return to one site, or sample property, that will be used for in-depth analysis to show integration and application of field semester concepts.
The curriculum consists of UK Core requirements, preprofessional, professional, and specialty support components. 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.

**UK Core Requirements**

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

**I. Intellectual Inquiry in Arts and Creativity**  
Choose one course from approved list ................. 3

**II. Intellectual Inquiry in the Humanities**  
Choose one course from approved list .................... 3

**III. Intellectual Inquiry in the Social Sciences**  
Choose one course from approved list .................... 3

**IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences**  
BIO 103 Basic Ideas of Biology .............................. 3

**V. Composition and Communication I**  
CIS/WRD 110 Composition and Communication I .......... 3

**VI. Composition and Communication II**  
CIS/WRD 111 Composition and Communication II ........... 3

**VII. Quantitative Foundations**  
Any approved Quantitative Foundations course with a Math (MA) prefix ......................................... 3

**VIII. Statistical Inferential Reasoning**  
FOR 250 Statistics and Measurements I ...................... 1

**IX. Community, Culture and Citizenship in the USA**  
GEN 100 Issues in Agriculture, Food and Environment .. 3

**X. Global Dynamics**  
FOR 435 Conservation Biology ................................... 3

**Graduation Composition and Communication Requirement (GCCR)**  
FOR 400 Human Dimensions of Forestry and Natural Resources .................................................. 3

**Premajor Requirements**  
BIO 103 Basic Ideas of Biology ................................. 3
or  
BIO 148 Introductory Biology I ................................. 3
CHE 104 Introductory General Chemistry .................. 3
or  
CHE 105 General College Chemistry I ....................... 3-4

Any approved Quantitative Foundations course with a Math (MA) prefix ......................................... 3

**Total Hours:** 9-10

**Major Requirements**  
BIO 100 Forests and Forestry .................................... 3
FOR 200 Basics of Geospatial Technology .................... 3
FOR 219 Dendrology .................................................. 4
FOR 221 Winter Dendrology ....................................... 1

FOR 240 Forestry and Natural Resource Ethics .............. 2
FOR 250 Statistics and Measurements I ....................... 4
FOR 255 Forest Fire ..................................................... 1
FOR 260 Forest Products and Wood Science .................. 4
FOR 280 Forest Resource Policy and Law ..................... 3
FOR 285 Communication and Professional Development in Forestry and Natural Resources ....... 1
FOR 286 Communication and Professional Development in Forestry and Natural Resources II .... 1
FOR 335 Introduction to Forest Health and Protection .......... 1
FOR 320 Forest Valuation and Economics ..................... 3
FOR 330 GIS and Spatial Analysis .................................. 3
FOR 340 Forest Ecology .................................................. 4
FOR 350 Silviculture ...................................................... 4
FOR 356 Forest Soils and Hydrology ............................. 1
FOR 357 Inventory and Measurements II ....................... 2
FOR 358 Silvicultural Practices ...................................... 3
FOR 359 Forest Operations and Utilization .................... 3
FOR 365 Wildlife Assessment ........................................ 2
FOR 370 Wildlife Biology and Management ..................... 4
FOR 400 Human Dimensions of Forestry and Natural Resources .................................................. 3
FOR 402 Forest Entomology .......................................... 3
FOR 425 Forest Management ......................................... 4
FOR 435 Conservation Biology ..................................... 3
FOR 460 Forest Hydrology and Watershed Management ........ 3
FOR 480 Integrated Forest Resource Management .......... 5

**TOTAL HOURS:** 33

**Graduation Composition and Communication Requirement (GCCR)**  
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning ................. 3

**Graduation Composition and Communication Requirement (GCCR)**  
MA 123 Elementary Calculus and Its Applications .......... 4

**VIII. Statistical Inferential Reasoning**  
STA 296 Statistical Methods and Motivations ............... 3

**IX. Community, Culture and Citizenship in the USA**  
GEN 100 Issues in Agriculture, Food and Environment .. 3

**X. Global Dynamics**  
FOR 435 Conservation Biology ................................... 3

**Total Hours:** 33

**BACHELOR OF SCIENCE IN HORTICULTURE, PLANT AND SOIL SCIENCES**

The Horticulture, Plant and Soil Sciences degree program is designed to provide students with the knowledge and 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 Option prepares graduates for specific professional opportunities.

**Options**  
Students pursuing a Horticulture, Plant and Soil Sciences degree may choose from the following Options:

- Horticulture Enterprise Management
- Turfgrass Science
- Crops and Livestock
- Crop, Soil and Horticulture Science

**Graduation Requirements**

Students must complete a minimum of 120 semester credit hours with at least 45 credit hours from courses at the 300 level or 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. In addition to the UK Core and college requirements, students must select an Option with the assistance of an advisor and fulfill the area’s program requirements.

**UK Core Requirements**

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

**I. Intellectual Inquiry in Arts and Creativity**  
Choose one course from approved list ...................... 3

**II. Intellectual Inquiry in the Humanities**  
Choose one course from approved list ...................... 3

**III. Intellectual Inquiry in the Social Sciences**  
Choose one course from approved list ...................... 3

**IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences**  
BIO 103 Basic Ideas of Biology .............................. 3

**V. Composition and Communication I**  
CIS/WRD 110 Composition and Communication I ......... 3

**VI. Composition and Communication II**  
CIS/WRD 111 Composition and Communication II ........... 3

**VII. Quantitative Foundations**  
Any approved Quantitative Foundations course with a Math (MA) prefix ................. 3

**VIII. Statistical Inferential Reasoning**  
FOR 250 Statistics and Measurements I ...................... 1

**IX. Community, Culture and Citizenship in the USA**  
GEN 100 Issues in Agriculture, Food and Environment .. 3

**X. Global Dynamics**  
FOR 435 Conservation Biology ................................... 3

**Total Hours:** 33

**Graduation Composition and Communication Requirement (GCCR)**  
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning ................. 3

**Graduation Composition and Communication Requirement (GCCR)**  
MA 123 Elementary Calculus and Its Applications .......... 4

**VIII. Statistical Inferential Reasoning**  
STA 296 Statistical Methods and Motivations ............... 3

**IX. Community, Culture and Citizenship in the USA**  
GEN 100 Issues in Agriculture, Food and Environment .. 3

**X. Global Dynamics**  
FOR 435 Conservation Biology ................................... 3

**Total Hours:** 33

**Graduation Composition and Communication Requirement (GCCR)**  
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning ................. 3

**Graduation Composition and Communication Requirement (GCCR)**  
MA 123 Elementary Calculus and Its Applications .......... 4

**VIII. Statistical Inferential Reasoning**  
STA 296 Statistical Methods and Motivations ............... 3

**IX. Community, Culture and Citizenship in the USA**  
GEN 100 Issues in Agriculture, Food and Environment .. 3

**X. Global Dynamics**  
FOR 435 Conservation Biology ................................... 3

**Total Hours:** 33
### Elective courses should be selected by the student to lead to **Specialty Support Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLS 514 Grass Taxonomy and Identification</td>
<td>3</td>
</tr>
<tr>
<td>PLS 515 Turf Management</td>
<td>3</td>
</tr>
<tr>
<td>PPA 400G Principles of Plant Pathology</td>
<td>3</td>
</tr>
<tr>
<td>Select additional 9 credit hours of PLS courses</td>
<td>9</td>
</tr>
<tr>
<td><strong>Subtotal: Option hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

#### Specialty Support Requirements

- **ENT 320 Horticultural Entomology**
- **CHE 226 Analytical Chemistry** or **CHE 236 Survey of Organic Chemistry**

Select additional 15 credit hours of specialty support in consultation with academic advisor

**Subtotal: Specialty Support**

#### Crop, Soil and Horticulture Science Option

Select 18 hours of PLS courses with consent of advisor

**Subtotal: Electives**

#### Specialty Support Requirements

- **CHE 226 Analytical Chemistry** or **CHE 230 Organic Chemistry**
- **CHE 236 Survey of Organic Chemistry**
- **STA 296 Statistical Methods and Motivations**

Additional specialty support classes may be selected in consultation with your academic advisor for a total of 21 hours in specialty support.

**Subtotal: Specialty Support**

#### Electives

Elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

**Subtotal: Electives**

### Total Hours Required

- **TOTAL HOURS:** 120

### OPTIONS

#### Horticulture Enterprise Management Option

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLS 320 Woody Horticultural Plants</td>
<td>4</td>
</tr>
<tr>
<td>PLS 330 Herbaceous Horticultural Plants</td>
<td>2</td>
</tr>
<tr>
<td>PLS 451 Landscape Management and Arboriculture</td>
<td>3</td>
</tr>
<tr>
<td>PLS 515 Turf Management</td>
<td>3</td>
</tr>
<tr>
<td>PLS 520 Fruit and Vegetable Production</td>
<td>4</td>
</tr>
<tr>
<td><strong>Subtotal: Option hours</strong></td>
<td>23</td>
</tr>
</tbody>
</table>

#### Specialty Support Requirements

Select 21 hours of courses with consent of advisor

**Subtotal: Specialty Support**

#### Electives

Elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

**Subtotal: Electives**

### 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 four-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.
Admission Requirements

Admission to the University of Kentucky and to the College of Agriculture, Food and Environment 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 Office of Undergraduate Admissions 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 129 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 UK Core 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.

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
LA 111 Living on the Right Side of the Brain ................. 3
II. Intellectual Inquiry in the Humanities
Choose one course from approved list ........................ 3
III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ........................ 3
IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list ........................ 3
V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ......... 3
VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ......... 3
VII. Quantitative Foundations
Choose one course from approved list ........................ 3
VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning ............. 3
IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ........................ 3
X. Global Dynamics
Choose one course from approved list ........................ 3

UK core hours .................................................. 30

Graduation Composition and Communication Requirement (GCCR)
LA 222 Landscape Architecture Design Studio II .......... 6
LA 223 Landscape Architecture Design Studio III ......... 6
Graduation Composition and Communication Requirement hours (GCCR) ................. 12

Premajor Requirements

Premajor requirements met by UK Core courses:
LA 111 Living on the Right Side of the Brain ................. 3
Subtotal: Premajor hours ...................................... 3

Departmental Professional Requirements

LA 105 Introduction to Landscape Architecture .......... 3
LA 121 Landscape Architecture Design Studio I .......... 6
LA 161 Graphics I ................................................. 3
LA 162 Digital Representation I ............................... 3
LA 205 History of Landscape Architecture ................. 3
LA 222 Landscape Architecture Design Studio II ....... 6
LA 223 Landscape Architecture Design Studio III ...... 6
LA 271 Design Implementation I .............................. 4
LA 324 Landscape Architecture Design Studio IV ...... 6
LA 372 Design Implementation II ............................ 4
LA 373 Design Implementation III ........................... 6
LA 390 International Study .................................... 3
LA 399 Internship in Landscape Architecture .......... 3
LA 425 Landscape Architecture Design Studio V ...... 6
LA 426 Landscape Architecture Design Studio VI ...... 6
LA 490 Capstone and Professional Practice Seminar ... 2

Students must complete 9 hours from the following list of Topical Studies courses:
LA 262 Graphics II .............................................. 3
LA 305 Design Theories in Landscape Architecture .... 3
LA 307 Cultural Landscape Preservation ..................... 3
LA 308 Regional Land Use Planning Systems ............. 3
LA 345 Design with Plants .................................... 3
LA 355 Introductory Geospatial Applications for Land Analysis ........................................ 3
LA 395 Independent Study in Landscape Architecture ............................................. 1-6
LA 397 Special Topics in Landscape Architecture (Subtitle required) ............. 3
LA 457 Contemporary Regional Land Use Planning Applications ............................... 3
LA 462 Digital Representation II ............................... 3
LA 556 Contemporary Geospatial Applications for Land Analysis ................................ 3

Subtotal: Major hours ........................................... 79

Specialty Support Requirements
PLS 230 Intro to Plant Identification ......................... 3
PLS 320 Woody Horticultural Plants .......................... 4
PLS 366 Fundamentals of Soil Science ......................... 4
One course in ecology from the following or other ecology-focused courses approved by Director of Undergraduate Studies:
FOR 340 Forest Ecology ........................................... 4
FOR 435 Conservation Biology .................................. 3
GEO 530 Biogeography and Conservation ................... 3
Select one additional course from the 300-500 series with advisor assistance ................. 3

Subtotal: Specialty Support .... minimum of 17

Electives

Electives should be selected by the student to lead to the minimum total of 129 hours required for graduation. Electives may be chosen from the Landscape Architecture Topical Studies or other university courses at any level.

Subtotal: Electives .... minimum of 3

TOTAL HOURS: .................................................. 129

BACHELOR OF SCIENCE IN NATURAL RESOURCES AND ENVIRONMENTAL SCIENCE

The program in Natural Resources and Environmental Science is designed to provide students with the knowledge and skills needed for a career in the rapidly growing fields of environmental science, natural resource management, and environmental policy. With global climate change and an inter-connected world economy, the conservation and management of our natural resources and sustainability of our natural environment is becoming an issue for all societies. This curriculum provides students with exposure to a broad array of disciplines that are essential in approaching issues of natural resources, environmental quality, and environmental sustainability. Experiential learning is a key component in the curriculum. As a result, graduates have the capacity to integrate perspectives and diverse bodies of knowledge in dealing with environmental resource management problems.
All students in the program take a common core of major requirements which is designed to provide exposure to technical and socioeconomic dimensions of natural resource management and policy. Important components of the core requirements are a required three-week summer camp, a pre-professional internship or research experience, and a senior capstone course that is problem based. In addition to the core requirements, all students must complete nine hours of course work in both an Analytical Skill Development Area (ASD) and an Environmental System Emphasis Area (ESEA). This allows students to match analytical skills to an area of particular interest in conservation biology, natural resource planning, environmental soil science, water resources, forestry, wildlife management, agricultural sustainability, geological processes, or related areas. Courses completed for the ASD and ESEA are selected from a list of choices in each area. Students are required to complete an off-campus internship or a research experience that is related to their ESEA and/or ASD. NRES majors have completed internships in several foreign countries, although most are conducted within the U.S. with organizations such as the National Park Service, the U.S. Forest Service, with local nature preserves, an Alaskan salmon recovery program, a national laboratory, environmental consulting firms, private corporations, and both state and local governments. All seniors apply their course work and experiential learning to the senior capstone course which focuses on a well-defined natural resource issue, requires group collaboration and problem-solving, and involves actual stakeholders.

Graduates of the Natural Resources and Environmental Science degree program move on to graduate work or careers. Many graduates continue their studies in Masters or Ph.D. programs or go on to law school. Most graduates begin careers as aspiring environmental professionals in both the public and private sector. Additional employment opportunities exist in environmental education, journalism, and work with nonprofit organizations which have environmental concerns.

Graduation Requirements

To earn a Bachelor of Science in Natural Resources and Environmental Science, a student must complete at least 120 semester hours of credit with at least a 2.0 cumulative grade-point average. A minimum of 45 credits must be from upper division courses (300-level and above). Remedial courses may not be counted toward the total degree hours. In addition to the UK Core requirements, students must complete College requirements, premajor and major requirements, and complete an internship or research experience. With advisor approval, students select and Analytical Skill Development and an Environmental System Emphasis Area which focuses course work in a student’s area of interest.

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
CHE 105 General College Chemistry I 4
CHE 111 Laboratory to Accompany General Chemistry I 4

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II 3

VII. Quantitative Foundations
MA 123 Elementary Calculus and Its Applications 3
or
MA 113 Calculus I 3
or
MA 137 Calculus I With Life Sciences Applications 4

VIII. Statistical Inferential Reasoning
STA 296 Statistical Methods and Motivations 3

IX. Community, Culture and Citizenship in the USA
GEN 100 Issues in Agriculture, Food and Environment 3

X. Global Dynamics
Choose one course from approved list 3

UK Core hours 33

Graduation Composition and Communication Requirement (GCCR)

NRE 395 Independent Study in Natural Resources and Environmental Science 3
or
NRE 399 Experiential Education in Natural Resources and Environmental Science 3

Graduation Composition and Communication Requirement hours (GCCR) 3

Premajor Requirements

BIO 148 Introductory Biology 3
BIO 152 Principles of Biology II 3
CHE 105 General College Chemistry I 4
CHE 111 Laboratory to Accompany General Chemistry I 4
ECO 201 Principles of Economics I 3
EES 220 Principles of Physical Geology 4
MA 123 Elementary Calculus and Its Applications 3
or
MA 113 Calculus I 3
or
MA 137 Calculus I With Life Sciences Applications 4
STA 296 Statistical Methods and Motivations 3

Subtotal: Premajor hours 25

Major Requirements

AEC 326 Principles of Environmental Law 3
AEC 445G Introduction to Resource and Environmental Economics 3
FOR 435 Conservation Biology 3
FOR 240 Forestry and Natural Resource Ethics 2-3
PHI 336 Environmental Ethics 2-3
FOR 325 Economic Botany: Plants and Human Affairs 3
FOR 340 Forest Ecology 4
FOR 460 Forest Hydrology and Watershed Management 3
EES 385 Hydrology and Water Resources 3
NRE 201 Natural Resources and Environmental Science 3
NRE 320 Natural Resource and Environmental Analysis 3
NRE 381 Natural Resource and Environmental Policy Analysis 3
NRE 395 Independent Study in Natural Resources and Environmental Science 3
NRE 399 Experiential Education in Natural Resources and Environmental Science 3
NRE 471 Senior Problem in Natural Resources and Environmental Science 4
NRE 355 Introductory Geospatial Applications for Land Analysis 3
PLS 366 Fundamentals of Soil Science 4

*NRE 320 is a three-week summer camp field data collection experience. The student will attend this camp after the sophomore or junior year. This camp exposes the student to a wide range of natural resource techniques and concepts, including aquatic ecology, soil and plant sciences, wildlife and forestry, and waste management.

*Requires an approved Learning Contract through the Stuckert Career Center prior to registration.

Subtotal: Major hours 44-45

Analytical Skill Development (ASD) and Environmental System Emphasis Areas (ESEA)

Students must select one area within Analytical Skill Development and one Environmental System Emphasis Area and complete nine hours of course work in each area from the list of courses provided below. Students must select from the courses listed under each ASD and ESEA but may request one (1) substitute course per ASD and ESEA, subject to approval by both their academic advisor and the DUS. For the 18 hours of ASD and ESEA course work, all classes must be 200-level or above and at least twelve (12) credit hours must be in 300-level or above courses. Classes taken to complete the ASD requirement may not count towards the ESEA course requirement and vice versa. Research experiences, internships, or apprenticeships cannot be used to satisfy the ASD and ESEA requirements, including individualized options.

Analytical Skill Development Areas

1. Economic and Policy Analysis

AEC 309 International Agriculture, World Food Needs and U.S. Trade in Agricultural Products 3
AEC 483 Regional Economics 3
AEC 532 Agricultural and Food Policy 3
AEC/NRE 545 Resource and Environmental Economics 3
CLD/SOC 360 Environmental Sociology 3
FOR 320 Forest Valuation and Economics 3
FOR 400 Human Dimensions of Forestry and Natural Resources 3
2. Field and Laboratory Analysis of Ecosystems
BIO/NRE 420G Taxonomy of Vascular Plants 4
ENT 300 General Entomology 3
ENT/FOR 402 Forest Entomology 3
FOR 219 Dendrology 4
FOR 250 Statistics and Measurements I 4
PLS 396 Soil Judging 3
PLS/NRE 455G Wetland Delineation 3
PLS 573 Soil Morphology and Classification 3
PLS 597 Special Topics in Plant and Soil Science (Subtitle required) 3

3. Geospatial Analysis
BAE 538 GIS Applications for Water Resources 3
FOR 200 Basics of Geospatial Technology 3
FOR 330 GIS and Spatial Analysis 3
GEO 309 Introduction to GIS 3
GEO 409 Advanced GIS 3
GEO 415 Map Interpretation 3
LA/NRE 556 Contemporary Geospatial Applications for Land Analysis 3

4. Environmental Education
*NRE 390 Special Topics in Natural Resources and Environmental Science 3
CLD 230 Intrapersonal Leadership 3
CLD/SOC 360 Environmental Sociology 3
AED/FCS 583 Designing Curriculum and Assessment in Career and Technical Education 3
EDP 202 Human Development and Learning 3
*For the environmental education ASD, students must take NRE 390 Special Topics in Natural Resources and Environmental Science.

5. Individualized Analytical Skill Development
With advisor approval, a student may submit a request for an individualized ASD. The written proposal must include a memo explaining the rationale, a list of proposed courses for the ASD, an explanation of how those courses meet the intent of the ASD, and a copy of the student’s Plan of Study which includes the proposed course work. The written proposal must be submitted to the DUS for Steering Committee approval.

Environmental System Emphasis Areas
1. Conservation Biology
BIO/PLS 210 The Life Processes of Plants 3
BIO 325 Ecology 4
BIO 375 Behavior, Ecology, and Sociobiology 3
BIO/NRE 420G Taxonomy of Vascular Plants 4
BIO/GEO 530 Biogeography and Conservation 3

2. Forestry
*FOR 219 Dendrology 4
*FOR 350 Silviculture 4
FOR 320 Forest Valuation and Economics 4
FOR 400 Human Dimensions of Forestry and Natural Resources 3
FOR 402 Forest Entomology 3
FOR 425 Forest Management 4
*For the Forestry ESE, students must take FOR 219 and FOR 350.

3. Human Dimensions and Natural Resource Planning
BIO/GEO 530 Biogeography and Conservation 3
CLD/SOC 340 Community Interaction 3
CLD/SOC 360 Environmental Sociology 3
CLD/SOC 420 Sociology of Communities 3
CLD/SOC 440 Community Processes and Communication 3
FOR 400 Human Dimensions of Forestry and Natural Resources 3
FOR 470 Interdependent Natural Resource Issues 3
GEO 285 Introduction to Planning 3
GEO 485G Urban Planning and Sustainability 3
GEO 490G American Landscapes 3
GEO 531 Landscape Ecology 3
LA 308 Regional Land Use Planning Systems 3
LA 457 Contemporary Regional Land Use Planning Applications 3

4. Environmental Soil Science
PLS 396 Soil Judging 3
PLS/NRE 455G Biogeochemistry 3
PLS/NRE 455G Wetland Delineation 3
PLS 468G Soil Use and Management 3
PLS/NRE 470G Soil Nutrient Management 3
PLS 566 Soil Microbiology 3
PLS 573 Soil Morphology and Classification 3
PLS 575 Soil Physics 3

5. Water Resources
AEN 461G Biometeorology 3
BAE 532/CE 542 Introduction to Stream Restoration 3
BAE 538 GIS Applications for Water Resources 3
BIO/GEO 530 Biogeography and Conservation 3
CHE 565 Environmental Chemistry 3
EES 530 Low Temperature Geochemistry 3
EES 585 Hydrogeology 3
GEO 230 Weather and Climate 3
GEO 451G Fluvial Forms and Processes 3
PLS/NRE 455G Biogeochemistry 3
PLS/NRE 455G Wetland Delineation 3
PLS 573 Soil Morphology and Classification 3
PLS 575 Soil Physics 3

6. Wildlife Management
BIO/ENT 300 General Entomology 3
BIO 304 Principles of Genetics 4
BIO 325 Ecology 4
BIO 350 Animal Physiology 3
ASC 325 Animal Physiology 3
BIO 375 Behavioral Ecology and Sociobiology 3
BIO 559 Ornithology 4
FOR 370 Wildlife Biology and Management 4
PLS/NRE 455G Wetland Delineation 3

7. Global Sustainable Food Systems
AEC 309 International Agriculture, World Food Needs and U.S. Trade in Agricultural Products 3
CLD/SOC 360 Environmental Sociology 3
ECO 410 Current Issues in Economics: (Subtitle required) 3
ENT 310 Insect Pests of Field Crops 3
PLS 404 Integrated Weed Management 4
SAG 201 Cultural Perspectives on Sustainability 3
SAG/PLS 386 Plant Production Systems 4
SAG 390 Agroecology 3

8. Earth Systems Science
EES 230 Fundamentals of Geology I 3
EES 235 Fundamentals of Geology II 3
EES 323 Field Work in Regional Geology 6

9. Individualized System Emphasis Area
With advisor approval, a student may submit a request for an individualized ESEA. The written proposal must include a memo explaining the rationale, a list of proposed courses for the ESEA, an explanation of how those courses meet the intent of the ESEA, and a copy of the student’s Plan of Study which includes the proposed course work. The written proposal must be submitted to the DUS for Steering Committee approval.

Subtotal: Analytical Skill Development and Environmental System Emphasis Areas 18

Electives
Free elective courses should be selected by the student to lead to the minimum total of 120 hours required for graduation.

Subtotal: Electives 7-9
TOTAL HOURS: 120

MINORS IN AGRICULTURE, FOOD AND ENVIRONMENT

Minor in Agricultural Economics

Preprofessional Requirement
ECO 201 Principles of Economics I 3

Minor Requirements
Two courses selected from:
AEC 302 Agricultural Management Principles 4
AEC 303 Microeconomic Concepts in Agricultural Economics 3
AEC 305 Food and Agricultural Marketing Principles 3

In addition, students should select 9 hours from other agricultural economics courses. A maximum of 3 credit hours from AEC 312, 313, 314, 315, or 341 may be credited to the minor. AEC 399 may not be included.

Minor in Animal Sciences

Prerequisites
Note that several classes in both Group A and Group B have prerequisites beyond ASC 101. These are indicated in parenthesis following the courses below. Students taking the minor are responsible for satisfying the prerequisites.

Minor Requirements
ASC 101 Domestic Animal Biology 3
ASC 102 Introduction to Livestock and Poultry Production 3

Additional Course Work
At least 9 credit hours must be selected from the list that follows (Groups A and B). At least one course must be selected from Group A and one course from Group B.
Minor in Community and Leadership Development

The minor in Community and Leadership Development requires 22 hours as follows:

Preminor Requirements Hours  
CLD 100 Introduction to Community and Leadership Development 1  
CLD 225 Community and Communication: Exploring Their Intersections 3  
CLD 230 Intrapersonal Leadership 3  
CLD 260 Community Portraits 3  
Students must earn at least a C in the above four courses before they will be admitted to any upper-division courses in the program.  
Subtotal: Preminor Requirements 10

Minor Requirements Hours  
CLD 300 Foundational Theories in Community and Leadership Development 3  
CLD 370 Learning in Society 3  
Select two additional CLD courses at the 300 level and above, with advisor’s approval.  
Subtotal: Minor Requirements 12

Minor in Food Science

Required Courses Hours  
FSC 535 Food Analysis or 4  
FSC 434G Food Chemistry 4  
FSC 530 Food Microbiology 5  
FSC 536 Advanced Food Technology or 4  
FSC 538 Food Fermentation and Thermal Processing 4  
Elective Courses  
Two of the following:  
FSC 406 Introduction to Food Processing 4  
AEN 340 Principles of Food Engineering 4  
FSC 535 Food Analysis or 4  
FSC 434G Food Chemistry 4  
FSC 536 Advanced Food Technology or 4  
FSC 538 Food Fermentation and Thermal Processing 4  
*If not taken as one of the required courses.

Minor in Pest Management

Prerequisite Hours  
One course from the following:  
ASC 320, 404G, 406, 408G, 420G  
PLS 352, 386, 402, 408, 512, 515, 520, 525, 556 2-4

Minor Requirements  
ENT 300 General Entomology 3  
PAA 400G Principles of Plant Pathology 3  
Select at least 9 hours from the following:  
ENT 310 Insect Pests of Field Crops 3  
ENT 320 Horticultural Entomology 3  
ENT 340 Livestock Entomology 3  
ENT 402 Forest Entomology 3  
ENT 530 Integrated Pest Management 3  
ENT 574 Advanced Applied Entomology 4  
PAA 595 Epidemiology and Control of Plant Diseases 4  
VS 351 Principles of Animal Hygiene and Disease Control 3  
PAA 470G Soil Nutrient Management 3  
ASC 378 Animal Nutrition and Feeding 4

Minor in Plant and Soil Science

Preminor Requirement Hours  
CHE 105 General College Chemistry 4

Minor Requirements  
Required:  
PAA 104 Plants, Soils, and People: A Science Perspective 18  
PAA 210 The Life Processes of Plants or 3  
BIO 152 Principles of Biology II 3  
PAA 366 Fundamentals of Soil Science 4  
plus 9 more hours of plant and soil science courses chosen from the following prefixes: PAA, PLS.

Minor in Sustainable Agriculture

The minor in Sustainable Agriculture requires 21 to 23 hours as follows:

Minor Prerequisite Hours  
ECO 201 Principles of Economics 3

Minor Requirements  
Required:  
SAG 101 Introduction to Sustainable Agriculture 3  
SAG 201 Cultural Perspectives on Sustainability 3  
SAG 397 Apprenticeship in Sustainable Agriculture 3  
Select one from:  
GEO 235 Environmental Management and Policy 3  
PAA 366 Fundamentals of Soil Science 4  
Select one from:  
AEC 302 Agricultural Management Principles 4  
AEC 305 Food and Agricultural Marketing Principles 3  
AEC 445G Introduction to Resource and Environmental Economics 3  
*Prerequisite: CHE 105.  
**Prerequisite: SOC 101.

Undergraduate Certificate in Distilling, Wine and Brewing Studies

The Undergraduate Certificate in Distillation, Wine and Brewing Studies (DWBS) is inclusive of students from all departments and colleges at UK. The Departments of Animal and Food Sciences; Biosystems and Agricultural Engineering; Chemistry; Chemical and Materials Engineering; History; Horticulture; Plant and Soil Sciences; Retailing and Tourism Management; and Writing, Rhetoric and Digital Studies are all engaged in DWBS. Three key student learning outcomes comprise the DWBS and are accomplished through a cluster of courses:

- Students will comprehend the breadth of the career opportunities in the DWBS industry.
- Students will be able to identify key technical methods and analytical skills required in the DWBS industry.
- Students will be capable of outlining the history of DWBS and clearly explain how this relates to human cultures.

UK is offering this program because, (a) this industry represents the science of one of the oldest products linked to human civilization; thus, education opportunities span a breadth of disciplines; and (b) this is a global industry that provides a wide and interdisciplinary range of careers. The curriculum was developed due to an urgent need to train people in this area as identified by the local industries. The Bluegrass is home to nearly 95 percent of the production of bourbon, one of the world’s premier distilled spirits. There are over 70 wineries in the area as well, in addition to numer-
Students must complete a minimum of 12 hours from the list of courses in the chart on the right. A&S 306 and PLS 335 are required. Students will select an additional 6 hours from the list of elective courses to complete the certificate.

The Certificate in Distilling, Wine, and Brewing Studies is designed to attract students from other colleges and units in Engineering. However, the DWBS is designed to also appeal to students in the colleges of Agriculture, Food, and Environment; Arts & Sciences; and Business & Economics; Education; and Engineering. However, the DWBS is designed to also attract students from other colleges and units based on interest.

The certificates are available to students from all colleges and units, as long as they have a major or minor in the college where the certificate is offered. The certificate is also open to students from other colleges and units, as long as they have a major or minor in the college where the certificate is offered.

The certificates are available to students from all colleges and units, as long as they have a major or minor in the college where the certificate is offered. The certificate is also open to students from other colleges and units, as long as they have a major or minor in the college where the certificate is offered.
admission to Auburn; 2.70 is required for Tuskegee. 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 average overall GPA for students accepted to veterinary schools is approximately 3.50. All required courses must have a grade of C or greater.

Most US veterinary schools use the Veterinary Medical College Application Service (VMCAS) application.

The following is a list of courses for Auburn College of Veterinary Medicine requirements. 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 advanced placement credit for required courses must have prior approval by Dr. Dwyer. Auburn does not accept correspondence credit courses without prior approval by Dr. Dwyer.

### Auburn’s Pre-Veterinary Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written Composition*</td>
<td>6</td>
</tr>
<tr>
<td>Literature (e.g. ENG 251)**</td>
<td>3 or 6</td>
</tr>
<tr>
<td>Fine Arts (e.g. MUS 100)**</td>
<td>3</td>
</tr>
<tr>
<td>Humanities/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**</td>
<td></td>
</tr>
<tr>
<td>MA 123 Elementary Calculus and Its Applications or 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 148 (or 150)/152 Principles of Biology I and II                    | 6     |
BIO 151/153 Principles of Biology Laboratory I and II**               |       |
BIO 315 Introduction to Cell Biology                                  | 4     |
CHE 105 General College Chemistry I                                   | 4     |
CHE 107 General College Chemistry II                                  | 3     |
CHE 111 Laboratory to Accompany General Chemistry I                  | 1     |
CHE 113 Laboratory to Accompany General Chemistry II                 | 2     |
CHE 230 Organic Chemistry I                                           | 3     |
CHE 231 Organic Chemistry Laboratory I                               | 1     |
CHE 232 Organic Chemistry II                                          | 3     |
CHE 233 Organic Chemistry Laboratory II                              | 1     |
PHY 211 General Physics                                               | 5     |
BCH 401G Fundamentals of Biochemistry                                | 3     |
ASC 378 Animal Nutrition and Feeding                                 | 4     |
ASC 380 Applied Animal Nutrition                                     | 3     |
Science Electives**                                                   | 6     |

*Consult advisor.

**Students should contact a UK pre-veterinary advisor regarding alternative courses.

***Check with pre-veterinary advisor for alternative courses.

****Science electives must be two of the following courses: BIO 304, BIO 330 or ASC 325, BIO 398, BIO 315, BIO 342, ASC 364, BIO 361 or BIO 363, BIO 359, PHY 211.

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

### Tuskegee’s Pre-Veterinary Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Chemistry w/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>Biochemistry w/ Lab</td>
<td>4</td>
</tr>
<tr>
<td>Physics w/ Lab</td>
<td>8</td>
</tr>
<tr>
<td>Advanced Biology (300 level or above)</td>
<td>9</td>
</tr>
<tr>
<td>ASC 101 Domestic Animal Biology</td>
<td>3</td>
</tr>
<tr>
<td>ASC 378 Animal Nutrition and Feeding</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
</tr>
<tr>
<td>English</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences/Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>6</td>
</tr>
<tr>
<td>Advanced Biology Electives</td>
<td>8</td>
</tr>
</tbody>
</table>

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 pre-veterinary students who enter veterinary school without obtaining an Animal Science degree and petition UK for one last year must fulfill the departmental requirements for an Animal Science degree. In order to be eligible for the B.S. in Animal Sciences, students must have completed all UK Core courses, all college requirements and all of the required core courses and production courses required in the Animal Sciences degree program.

### 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 – Dietetics and Human Nutrition; Family Sciences; and Retailing and Tourism Management. 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 Sciences
- Bachelor of Science in Hospitality Management and Tourism
- Bachelor of Science in Human Nutrition
- Bachelor of Science in Merchandising, Apparel and Textiles

### Minor Offered

The following minor is available:

- Family Sciences

### 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 recognition:

- Didactic and Coordinated Programs in Dietetics are both accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND)
- The Masters Specialization in Couple and Family Therapy (M.S. in Family Sciences) is accredited by the Commission on Accreditation for Couple and Family Therapy Education (COACFTE).

The program includes course work and clinical practicum required for licensure.

### Unique Features of the School

- Facilities and Services

The School oversees the Research Center for Families and Children and the Family Center. The Family Center is a learning laboratory for students who provide services to students, staff, and community members. The Department of Retailing and Tourism Management oversees the Betty D. Eastin Costume Collection and the Textiles Quality Research Laboratory. The Department of Family Sciences includes two research labs. The Family Interaction Research Lab (FIRL) features equipment to measure family interactions, including psychological arousal and electrical brain activity. The Family Social Science Research Center includes equipment to complete random digit dialing research. The Department of Dietetics and Human Nutrition operates the Lemon Tree Restaurant and the Nutritional Assessment Laboratory.

### Scholarships

Over fifty scholarships are awarded each year to undergraduate and graduate students enrolled in the School of Human Environmental Sciences. Information about scholarships is available from the Advising Resource Office, 112 Erikson Hall, and the College of Agriculture, Food and Environment Scholarship Office, N-6 Ag Science Building.

### Advising

All students are assigned an advisor during their first semester in a program in the School of Human Environmental Sciences. For more information about programs or advising, contact:
DEPARTMENT OF DIETETICS AND HUMAN NUTRITION

The Department of Dietetics and Human Nutrition 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 and the Bachelor of Science in Human Nutrition. A post-baccalaureate dietetic internship is also offered. Visit us on the web at: http://dhn-hes.ca.uky.edu/

Admission Policy

Admission to the University is sufficient for lower-division admission to the human nutrition and dietetics majors. However, lower-level admission to the majors or any admission to the University does not guarantee upper-division admission to either of the degree programs in the Department of Dietetics and Human Nutrition. In general, admission depends upon the qualifications and preparation of applicants, as well as the availability of resources for maintaining quality instruction.

Upper-division admission into the human nutrition or dietetics degree programs is necessary in order to be granted a baccalaureate degree from the Department of Dietetics and Human Nutrition. Students who have attained a 2.8 or higher grade-point average in the premajor component required for all students in the Department of Dietetics and Human Nutrition will be assured admission.

To be considered for upper-division admission to either the human nutrition or dietetics undergraduate degree programs, an applicant must fulfill the following requirements:

1. Enrollment in the University of Kentucky. (Students are considered for acceptance by the Department only after acceptance by the University of Kentucky.)
2. Completion of the premajor component (premajor courses include: CHE 105, CHE 107, CHE 111, CHE 113, BIO 148, DHN 212, and DHN 241) required for all students within the Department of Dietetics and Human Nutrition with a minimum premajor course work grade-point average of 2.8.*
3. Submission of an application form to the Department of Dietetics and Human Nutrition Academic Coordinator.

Applications from students outside the University of Kentucky seeking admission to the Human Nutrition or Dietetics degree programs, whether for upper-division or lower-division status, must be received by the University Admissions Office no later than April 15 (first summer session); May 15 (second summer session); August 1 (fall semester); and December 1 (spring semester).

Students enrolled in other UK programs on campus should apply for admission prior to the priority registration period. (The appropriate deadlines are listed in the University calendar for approved times to change major.)

Lower-division students enrolled in the Department of Dietetics and Human Nutrition should apply for upper-division admission to the Human Nutrition Program or Didactic Program in Dietetics during the semester they are completing the premajor course work. The application for upper-division admission should be made before the priority registration period for the upcoming semester.

Appeal Process

Students with a GPA below 2.8 and who have completed all premajor requirements may appeal for admission into the human nutrition or dietetic programs. If the Appeals Committee feels that there is persuasive evidence that personal, academic or professional circumstances have affected a student’s grades and the student shows promise for successful completion of a degree in the Department of Dietetics and Human Nutrition, acceptance may be granted. Materials and information necessary for the appeals process will be available in the School of Human Environmental Science Advising Resource Center. The deadline for submission of the appeals is generally 45 days prior to the beginning of the semester; however, appeals materials are not accepted for the first summer session.

BACHELOR OF SCIENCE IN DIETETICS with a major in Dietetics

Dietetics prepares professionals who are recognized for expertise in food and nutrition. Graduates of the University of Kentucky Dietetics Program are prepared to apply to an accredited Dietetic Internship program to become Registered Dietitians to function as entry level professionals with opportunities for practice in medical nutrition therapy, community dietetics, food systems management, and/or the business of dietetics. Becoming a registered dietitian involves a combination of academic preparation, including a minimum of a baccalaureate degree, and supervised practice component and successfully passing the registration examination for dietitians.

The UK DHN Dietetics Program offers two options to earn a bachelor’s degree in dietetics. Option A is the Didactic Program in Dietetics (DPD) and Option B is the Coordinated Program in Dietetics (CP). Both options lead to the Bachelor of Science in Dietetics and fulfill the foundation knowledge and/or competencies established by the Accreditation Council for Education in Nutrition and Dietetics, ACEND, the accrediting agency for the Academy of Nutrition and Dietetics, AND. The DPD and the CP are both fully accredited by ACEND. Option B, CP, is a selective admission program to which students must apply prior to beginning the major course work in the third year of the dietetics program.

Option A, designated as the Didactic Program in Dietetics, DPD, focuses on the foundation knowledge requirements provided by the academic component of dietitian education. A student must be a declared dietetic major in the Department of Dietetics and Human Nutrition to complete the DPD. Students must attain a cumulative grade-point average of 2.4 or above to progress into course work designated as major requirements.

Successful completion of the DPD curriculum enables graduates to apply to an ACEND-accredited supervised practice program, SPP, in a post-baccalaureate Dietetic Internship.

Upon successful completion of the Dietetic Internship the individual is eligible to sit for the national registry exam administered by the Commission on Dietetic Registration, CDR, the credentialing agency of the AND, which grants use of the nationally recognized credential “RD” Registered Dietitian.

Graduates of the UK DHN Option A may apply for placement in the Dietetic Internship program offered by the Department of Dietetics and Human Nutrition, School of Human Environmental Sciences, or any other ACEND-accredited dietetic internship outside the department. Students must consider the highly competitive scenario in competing for acceptance into a Dietetic Internship.

Option B, designated as the Coordinated Program in Dietetics, CP, provides the foundation knowledge requirements provided by the academic component of dietitian education (see DPD above) and an ACEND-accredited supervised practice component. Students who have completed the premajor requirements and are interested in the Coordinated Program to attain the academic preparation and supervised practice program through the UK DHN Dietetics Program may apply for admission to Option B, the CP. Option B requires three additional semesters of didactic course work in the major requirements prior to beginning the 1,200 hour supervised practice program. Students in the CP must successfully complete the didactic and supervised practice component to receive the B.S. in Dietetics degree.
The ACEND-accredited CP is a selective admission program. Admission to the University of Kentucky DHN Dietetics Program 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, potential qualifications for becoming a successful dietitian, leadership potential and professional involvement and commitment.

The application deadline for the UK DHN CP is February 1, prior to potential fall admission in Year Three of the Dietetics Program. Year Three of the Dietetics Program is the beginning of the Major Requirements for completion of course work. Program application materials should include an application form, a letter of professional goals and qualifications, three letters of reference, and record of academic performance.

The CP Admissions Committee considers grade-point average, letter of application, work experience, honors and extracurricular activities and letters of recommendation. Students who apply to the UK DHN CP will be granted an interview where the applicant’s goals, communication skills, knowledge of the profession, and organizational and leadership skills are evaluated.

Successful CP applicants will be notified of provisional acceptance into the CP before UK’s priority registration dates for the ensuing fall semester. Final acceptance depends on successful completion of the work in progress at the time of the application and throughout the remaining didactic component prior to beginning the supervised practice component of the undergraduate dietetics program.

Transfer students are urged to contact the Advising Resource Office, 112 Erikson Hall, for a preliminary evaluation of credits well in advance of the application date. Year Three of the Dietetics Program is the beginning of the Major Requirements for completion of course work. CP applicants must be a declared major in the UK DHN dietetics program or if a transfer student, indicate intent to declare dietetics as their major. Students accepted into the CP must be majors in the UK DHN dietetics program.

Successful completion of Option B, the UK DHN CP, results in the Bachelor of Science in Dietetics degree. Graduates of Option B are eligible to sit for the national registry exam administered by the Commission on Dietetic Registration, CDR, the credentialing agency of the AND, which grants use of the nationally recognized credential “RD” Registered Dietitian.

The UK DHN ACEND-accredited Dietetic Internship, DI, selects competitive students who have completed a Didactic Program in Dietetics at UK or other ACEND-accredited institutions. Qualified graduates compete for a limited number of positions in the UK DHN DI. For information regarding the UK DHN Dietetic Internship, the application and/or screening procedures, please contact:

**Director, Dietetic Internship Program**

203 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054

**Degree Requirements**

Each student must complete the following:

1. Complete UK Core 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
FAM 352 Issues in Family Sciences ....................... 3

**Subtotal: School Required hours** ............... 4

**UK Core Requirements**

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ....................... 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ....................... 3

III. Intellectual Inquiry in the Social Sciences
PSY 100 Introduction to Psychology
or
SOC 101 Introduction to Sociology ....................... 3-4

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
CHE 105 General College Chemistry I ...................... 4
CHE 111 Laboratory to Accompany General Chemistry I ....................... 1

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ........ 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ........ 3

VII. Quantitative Foundations
MA 111 Introduction to Contemporary Mathematics .......... 3

VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty:
An Introduction to Statistical Reasoning ....................... 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ....................... 3

X. Global Dynamics
Choose one course from approved list ....................... 3

**UK Core hours** ........................................... 32-33

**Graduation Composition and Communication Requirement (GCCR)**

DHN 374 Research and Writing in Dietetics .................. 3

**Graduation Composition and Communication Requirement hours (GCCR)** ............... 3

**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 148 Introductory Biology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 208 Principles of Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>CHE 105 General College Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHE 107 General College Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHE 111 Laboratory to Accompany General Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHE 113 Laboratory to Accompany General Chemistry II</td>
<td>2</td>
</tr>
<tr>
<td>CHE 230 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>CHE 236 Survey of Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CLA 131 Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>from Greek and Latin</td>
<td></td>
</tr>
<tr>
<td>ECO 201 Principles of Economics I</td>
<td>3</td>
</tr>
<tr>
<td>DHN 212 Introductory Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>DHN 241 Food Service Sanitation</td>
<td>1</td>
</tr>
<tr>
<td>PGY 206 Elementary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 100 Introduction to Psychology</td>
<td>4</td>
</tr>
<tr>
<td>SOC 101 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal: Premajors** .................................. 42

**Major Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHN 311 Nutritional Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>DHN 312 Nutrition and Wellness in the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>DHN 340 Institutional Purchasing</td>
<td>3</td>
</tr>
<tr>
<td>DHN 342 Quantity Food Production</td>
<td>4</td>
</tr>
<tr>
<td>DHN 346 Human Resources Management for the Food and Hospitality Industries</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
</tr>
<tr>
<td>MGT 301 Business Management</td>
<td>3</td>
</tr>
<tr>
<td>DHN 374 Research and Writing in Dietetics</td>
<td>3</td>
</tr>
<tr>
<td>DHN 403 Community Nutrition and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>DHN 408G Seminar in Dietetics and Human Nutrition</td>
<td>1</td>
</tr>
<tr>
<td>DHN 510 Advanced Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>DHN 512 Medical Nutrition Therapy I</td>
<td>4</td>
</tr>
<tr>
<td>DHN 514 Dietetics: Counseling and Communication Theories and Applications</td>
<td>3</td>
</tr>
<tr>
<td>DHN 517 Medical Nutrition Therapy II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal: Majors** ..................................... 44

**Option Requirements**

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

Option A – Didactic Program in Dietetics (DPD)

DHN 480 Dietetics Pre-Professional Practice.........................1-6
Subtotal: Option A .........................................................1-6

Option B – Coordinated Program in Dietetics (CP)

Option B requires the student to apply to admission to the 
CP after completion of premajor requirements. See Bulletin for 
details.

DHN 518 Evaluation of Dietetic Issues 
and Leadership ............................................................2
DHN 520 Medical Nutrition Therapy I: 
Supervised Practice .....................................................3
DHN 522 Food Service Systems Management I: 
Supervised Practice .....................................................5
DHN 524 Food Service Systems Management II: 
Supervised Practice .....................................................3
DHN 526 Medical Nutrition Therapy II: 
Supervised Practice .....................................................3
DHN 528 Community Nutrition I: 
Supervised Practice .....................................................1
DHN 530 Community Nutrition II: 
Supervised Practice .....................................................2

Subtotal: Option B .........................................................21

Electives

Professional Support Elective .............................................3

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

Subtotal: Elective hours Option A ..................................1-6
Subtotal: Elective hours Option B ..................................21
TOTAL HOURS: options A & B ..........................................128
TOTAL HOURS: Option B ..................................................137

Requests for applications or further information 
may be directed to:

College of Agriculture, Food 
and Environment
Director, Coordinated Program
Department of Dietetics 
and Human Nutrition
203 Funkhouser Building
University of Kentucky
Lexington, KY 40506-0054

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, pharmacy, medicine, 
dentistry, physical therapy, physician assistant 
school, optometry, and nutrition research.

Each student must complete the following:

1. Complete UK Core requirements.
2. Complete the School requirements listed below.
3. Complete 120 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
FAM 352 Issues in Family Sciences .................3

Subtotal: School Required hours .........................4

UK Core Requirements

See the UK Core section of this Bulletin for the complete 
UK Core requirements. The courses listed below are (a) 
recommended by the college, or (b) required courses that also 
fulfill UK Core areas. Students should work closely with their 
advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity 
Choose one course from approved list .................3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list .................3

III. Intellectual Inquiry in the Social Sciences
PSY 100 Introduction to Psychology .........................4

IV. Intellectual Inquiry in the Natural, Physical, 
and Mathematical Sciences
CHE 105 General College Chemistry I .................4

CHE 111 Laboratory to Accompany 
General Chemistry I .................................................1

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ........3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ....3

VII. Quantitative Foundations
MA 123 Elementary Calculus and its Applications 
or 
MA 113 Calculus I ......................................................4

VIII. Statistical Inferenceal Reasoning
STA 296 Statistical Methods and Motivations .............3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list .................3

X. Global Dynamics
Choose one course from approved list .................3

UK Core hours ..............................................................33-34

Graduation Composition and 
Communication Requirement (GCCR)

DHN 474 Research in Nutrition: Theory .........................3
DHN 475 Research in Nutrition: Application .................3

Graduation Composition and Communication 
Requirement hours (GCCR) ..........................................6

Premajor Requirements

PSY 100 Introduction to Psychology .........................4
MA 113 Calculus I 
or 
MA 123 Elementary Calculus and 
Its Applications .........................................................4

CHE 105 General College Chemistry I .................4

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

CHE 111 Laboratory to Accompany 
General Chemistry I .................................................1

CHE 113 Laboratory to Accompany 
General Chemistry II ..............................................2

CHE 230 Organic Chemistry I .................................3

CHE 231 Organic Chemistry Laboratory I .................1

CHE 232 Organic Chemistry II .................................3

CHE 233 Organic Chemistry Laboratory II .................1

STA 296 Statistical Methods and Motivations .............3

BIO 148 Introductory Biology I .................................3

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

BIO 155 Laboratory for Introductory Biology I .............1

BIO 208 Principles of Microbiology .................3

PGY 206 Elementary Physiology .........................3

ANA 209 Principles of Human Anatomy .................3

Subtotal: Premajor hours ............................................45

Major Requirements

DHN 212 Introductory Nutrition .........................3

DHN 241 Food Service Sanitation .................1

DHN 302 Principles of Food Preparation .................3

DHN 304 Experimental Foods .................3

DHN 311 Nutritional Biochemistry .................3

DHN 312 Nutrition and Wellness 
in the Life Cycle .........................................................3

DHN 315 Nutrition Issues in Physical Activity .............3

DHN 318 Hunger, Food Behavior, 
and the Environment ..................................................3

DHN 403 Community Nutrition and Wellness .........3

DHN 408G Seminar in Dietetics 
and Human Nutrition ..................................................1

DHN 474 Research in Nutrition: Theory .................3

DHN 475 Research in Nutrition: Application .................3

DHN 510 Advanced Nutrition .........................3

PH 305 Health Care Ethics .................................3

At least 45 hours of course credit at the 300-level or above 
is required for graduation.

Subtotal: Major hours .................................................38

Professional Support Electives

Select 18 hours in Professional Support Electives at the 200 
level or above.

Subtotal: Professional Support hours ..........18

Electives

Electives should be selected by the student to complete the 
minimum total of 120 hours required for graduation.

Subtotal: Minimum Elective hours ......................1

TOTAL HOURS: .......................................................120

DEPARTMENT OF 
FAMILY SCIENCES

The Department of Family Sciences 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 a major in family sciences. 
Students in the family sciences major earn 
the degree Bachelor of Science in Family Sciences. 
A minor in family sciences is available.

Family sciences 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 Sciences, 315 Funk-
BACHELOR OF SCIENCE IN FAMILY SCIENCES

Each student must complete the following:

1. Complete UK Core requirements.
2. Complete the School requirements listed below.
3. Complete 120 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
FAM 352 Issues in Family Sciences ................................................................. 3

Subtotal: School Required hours ................................................................. 4

UK Core Requirements

See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ........................................................ 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ........................................................ 3

III. Intellectual Inquiry in the Social Sciences
PSY 100 Introduction to Psychology
or
SOC 101 Introduction to Sociology .............................................................. 3-4

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list ........................................................ 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ........................................ 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ..................................... 3

VII. Quantitative Foundations
PHI 120 Introductory Logic ........................................................................... 3

VIII. Statistical Inferential Reasoning
STA 210 Making Sense of Uncertainty:
An Introduction to Statistical Reasoning .................................................... 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ........................................................ 3

X. Global Dynamics
Choose one course from approved list ........................................................ 3

UK Core hours ......................................................................................... 30-31

Graduation Composition and Communication Requirement (GCCR)

FAM 357 Adolescent Development ............................................................ 3
FAM 360 Introduction to Family Intervention:
Working with Families and Individuals ....................................................... 3
FAM 390 Introduction to Research Methods ................................................ 3
Graduation Composition and Communication Requirement hours (GCCR) ................................................................................................. 9

Premajor Requirements

COM 252 Introduction to Interpersonal Communication ................................ 3
PHI 120 Introductory Logic
or
PHI 332 Professional Ethics ......................................................................... 3
PSY 100 Introduction to Psychology ............................................................. 4
STA 210 Making Sense of Uncertainty:
An Introduction to Statistical Reasoning .................................................... 3
DHN 101 Human Nutrition and Wellness ................................................... 3
SOC 101 Introduction to Sociology ............................................................... 3
ECO 201 Principles of Economics I ............................................................... 3

Subtotal: Premajor hours ................................................................. 22

Major Requirements

FAM 251 Personal and Family Finance ....................................................... 3
FAM 253 Human Sexuality: Development, Behavior and Attitudes ............ 3
FAM 254 Life Course Human Development ................................................ 3
FAM 357 Adolescent Development ............................................................. 3
FAM 360 Introduction to Family Intervention:
Working With Families and Individuals ....................................................... 3
FAM 390 Introduction to Research Methods ................................................ 3
FAM 402 Issues in Family Resource Management ..................................... 3
FAM 499 Internship in Family Sciences ....................................................... 3
FAM 544 Cultural Diversity in American Children and Families
or
FAM 354 The Family in Cross-Cultural Perspective .................................... 3

Subtotal: Major hours ................................................................. 27

Professional Support

In addition to the major requirements, each student in consultation with his or her academic advisor will select a minimum of 18-21 credits in course work in a university-recognized minor. At least 12 of these hours must be at the 300 level or above. A minor is a structured group of courses that leads to considerable knowledge and understanding of a subject. Suggested minors include Psychology, Sociology, Gender and Women’s Studies, Anthropology, Economics, Political Science, Appalachian Studies, Business, Communication, Health Promotion, Human Nutrition, Community and Leadership Development, etc.

Students must contact the department responsible for the minor program for guidance and advising.

Subtotal: Professional Support hours ......................................................... 18-21

Electives

Electives at the 300 level or above to reach 120 credits including sufficient credits to reach 45 hours at the 300 level or above. Work with an advisor to select additional FAM classes if available.

Subtotal: Electives ................................................................................. 6

TOTAL HOURS: .................................................................................. 120

Minor in Family Sciences

Any student interested in a minor in family sciences should file an application with the student’s college prior to entering the program.

Minor Requirements

FAM 251 Personal and Family Finance ....................................................... 3
FAM 254 Life Course Human Development ................................................ 3
FAM 352 Issues in Family Sciences ............................................................... 3
Plus 12 additional hours in family sciences with at least 6 hours at the 300-level or above.

DEPARTMENT OF RETAILING AND TOURISM MANAGEMENT

The Department of Retailing and Tourism Management is committed to excellence in teaching, service and research resulting from innovative interdisciplinary education with a global, product, and consumer focus. Students build competencies for outstanding business and customer service in retail and hospitality organizations in a changing society. Opportunities are provided for experiential education through industry-related work experiences, internships, study tours, and exchange programs. Graduates are prepared for careers in the merchandising, hospitality and tourism industries in the developing experience economy. The department offers the Bachelor of Science in Hospitality Management and the Bachelor of Science in Merchandising, Apparel and Textiles.

Visit us on the Web at: http://rtm-hes.ca.uky.edu/

BACHELOR OF SCIENCE IN HOSPITALITY MANAGEMENT AND TOURISM

The Hospitality Management and Tourism program focuses on the specialized knowledge needed for careers in the hospitality industry. The degree develops graduates who are consumer and technology focused within the service industry. Course work integrates hospitality marketing strategies, communications and financial management through a curriculum focused on management of facilities and operations that provide hospitality services to the public.

The curriculum challenges students to exercise an integration of creativity and business components for various tourism services such as, Food & Beverage, Lodging, Attractions, Convention and Meeting Planning, Non-Profit Management, and Special Event Coordinating. The hospitality and tourism industries are rapidly growing; as the United States’ second largest employer, a degree in Hospitality Management and Tourism provides many career opportunities for graduates.

Internships are a required component of the program, which can lead to permanent professional placement. The internship provides students with first-hand experience in hospitality and tourism related fields, allowing them to exercise classroom knowledge in a real-world setting. Visit us at:

http://rtm-hes.ca.uky.edu/content/bachelor-science-hospitality-management-and-tourism

Entrance Requirement

The minimum grade-point average for entrance of all students into the Hospitality Management and Tourism program is 2.30.
Graduation Requirement
Students must fulfill all prerequisites and achieve a grade of C or better in all DHN and HMT courses which are major requirements. Each student must complete the following:
1. Complete UK Core requirements.
2. Complete the School requirements listed below.
3. Complete 120 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
FAM 352 Issues in Family Sciences ....................... 3

Subtotal: School Required hours ....................... 4

UK Core Requirements
See the UK Core section of this Bulletin for the complete UK core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.
I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ....................... 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ....................... 3

III. Intellectual Inquiry in the Social Sciences
Choose one course from approved list ....................... 3

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list ....................... 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I ....................... 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II ....................... 3

VII. Quantitative Foundations
MA 123 Elementary Calculus and Its Applications ....................... 4

VIII. Statistical Inferential Reasoning
STA 296 Statistical Methods and Motivations ....................... 3

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ....................... 3

X. Global Dynamics
ANT 160 Cultural Diversity in the Modern World ....................... 3
UK Core hours ....................... 31

Graduation Composition and Communication Requirement (GCCR)
RTM 425 Human Resource Management ....................... 3

Graduation Composition and Communication Requirement hours (GCCR) ....................... 3

Premajor Requirements
Two semesters of a single foreign language chosen from: Arabic; Chinese; French; German; Italian; Japanese; Russian; Spanish; and Sign Language (exclude: Latin, Hebrew, Greek) ....................... 8

Diversity Requirements
ANT 160 Cultural Diversity in the Modern World ....................... 3
plus one of the following courses:
AAS 200 Introduction to African-American Studies ....................... 3
AAS 235 Inequalities in Society ....................... 3
AAS 261 African American History 1865-Present ....................... 3
ANT 220 Introduction to Cultural Anthropology ....................... 3
ANT 225 Culture, Environment and Global Issues ....................... 3
ANT 324 Contemporary Latin American Cultures ....................... 3
ANT 327 Culture and Societies of India and South Asia ....................... 3
ANT 340 Development and Change in the Third World ....................... 3
CHI 331 Introduction to Chinese Culture, 1840 to Present ....................... 3
GEO 160 Lands and Peoples of the Non-Western World ....................... 3
GWS 200 Sex and Power ....................... 3
LAS 201 Introduction to Latin America ....................... 3
MAT 247 Dress and Culture ....................... 3
RUS 372 Russian Culture 1900-Present ....................... 3
SOC 380 Globalization: A Cross-Cultural Perspective ....................... 3

Subtotal: Diversity Requirement hours ....................... 6

CS 101 Introduction to Computing I ....................... 3
ACC 201 Financial Accounting I ....................... 3
ACC 202 Managerial Uses of Accounting Information ....................... 3
ECO 201 Principles of Economics ....................... 3
ECO 202 Principles of Economics II ....................... 3
HMT 120 Introduction to Hospitality Management and Tourism ....................... 3
MA 123 Elementary Calculus and Its Applications (prerequisite for STA 291) ....................... 4
STA 296 Statistical Methods and Motivations ....................... 3
DHN 241 Food Service Sanitation ....................... 3

Subtotal: Premajor hours ....................... 40

Major Requirements
Hours
Required:
HMT 210 Hotel Rooms Division Management ....................... 3
HMT 270 Principles of Travel and Tourism ....................... 3
HMT 308 Principles of Food and Beverage or
DHN 302 Principles of Food Preparation ....................... 3
HMT 350 Revenue Management ....................... 3
RTM 340 Professional Practice ....................... 1
RTM 345 Service Management ....................... 3
RTM 425 Human Resource Management ....................... 3
RTM 499 Retailing and Tourism Management Internship ....................... 6
DHN 342 Quantity Food Production ....................... 4
FIN 300 Corporation Finance ....................... 3
MGT 301 Business Management ....................... 3
MKT 300 Marketing Management ....................... 3

Subtotal: Major Core hours ....................... 38

Plus 12 hours from HMT major selections:
DHN 340 Institutional Purchasing ....................... 3
HMT 320 Hospitality and Tourism Marketing ....................... 3
HMT 330 Meetings and Convention Management ....................... 3
HMT 359 Hospitality and Tourism Special Topics (Subtitle required) ....................... 1-3
HMT 360 Tourism Planning and Development ....................... 3
HMT 395 Hospitality and Tourism Independent Study ....................... 1-3
HMT 470 Hospitality and Tourism Law and Ethics ....................... 3

HMT 560 Advanced Seminar in Lodging and Tourism ....................... 3
HMT 580 Trends Analysis for the Hospitality Industry ....................... 3
HMT 588 Strategic Management in the Hospitality and Food Service Industry ....................... 3
MAT 570 Electronic Retailing (E-Tailing) ....................... 3

Subtotal: Major Selection ....................... 12

Plus additional upper-level credits to complete 45 hours of 300-400-500 level classes.

Subtotal: Major Requirements ....................... 44

Electives
Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation.

Subtotal: Minimum Elective hours ....................... 3

TOTAL HOURS: ....................... 120

BACHELOR OF SCIENCE IN MERCHANDISING, APPAREL, AND TEXTILES

The Merchandising, Apparel, and Textiles program blends creativity with business components to develop graduates who are consumer and technology focused. Students study concepts and develop skills necessary for understanding market trends, retail 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 exercise resourceful thinking in business operations, merchandising strategies, and the interrelationships of people, technology, and materials. Course work is designed to match industry expectations and intended to provide students with the knowledge and experience they will need to understand trends and applications in the merchandising, apparel, and textiles industries.

Internships are a required component of the program, which can lead to permanent professional placement. The internship provides students with first-hand experience in merchandising, apparel, and textiles related fields, allowing them to exercise classroom knowledge in a real-world setting. Visit us at:
http://rtm-hes.ca.uky.edu/content/bachelor-science-merchandising-apparel-and-textiles

Each student must complete the following:
1. Complete UK Core requirements.
2. Complete the School requirements listed below.
3. Complete 120 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
FAM 352 Issues in Family Sciences ....................... 3

Subtotal: School Required hours ....................... 4
UK Core Requirements
See the UK Core section of this Bulletin for the complete UK Core requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill UK Core areas. Students should work closely with their advisor to complete the UK Core requirements.

I. Intellectual Inquiry in Arts and Creativity
Choose one course from approved list ........................................ 3

II. Intellectual Inquiry in the Humanities
Choose one course from approved list ........................................ 3

III. Intellectual Inquiry in the Social Sciences
PSY 101 Introduction to Psychology ........................................ 4

IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences
Choose one course from approved list ........................................ 3

V. Composition and Communication I
CIS/WRD 110 Composition and Communication I .......................... 3

VI. Composition and Communication II
CIS/WRD 111 Composition and Communication II .......................... 3

VII. Quantitative Foundations
Recommended: MA 123 Elementary Calculus and its Applications
or MA 113 Calculus I .......................................................... 4

VIII. Statistical Inferential Reasoning
Choose one:
STA 210 Making Sense of Uncertainty:
An Introduction to Statistical Reasoning
or STA 296 Statistical Methods and Motivations ........................................ 3

Subtotal: Premajor hours ........................................ 19

IX. Community, Culture and Citizenship in the USA
Choose one course from approved list ........................................ 3

X. Global Dynamics
Choose one course from approved list ........................................ 3

UK Core hours .............................................................. 32

Graduation Composition and Communication Requirement (GCCCR)
RTM 425 Human Resource Management ...................................... 3
Graduation Composition and Communication Requirement hours (GCCCR) ........................................ 3

Program Entrance Requirements
The minimum grade-point average for entrance of all students into the Merchandising, Apparel and Textiles program is 2.0.

Graduation Requirements
MAT majors and transfer students must obtain or have received a C or better in ALL premajor, professional support and MAT major required courses. No letter grade of a D would be accepted in the premajor, professional support and MAT major required courses.

Premajor Requirements
FAM 350 Consumer Issues .................................................. 3
PSY 101 Introduction to Psychology ........................................ 4
SOC 101 Introduction to Sociology ........................................... 3
ECO 201 Principles of Economics I ........................................... 3
ECO 202 Principles of Economics II .......................................... 3
STA 210 Making Sense of Uncertainty:
An Introduction to Statistical Reasoning
or STA 296 Statistical Methods and Motivations ........................................ 3

Subtotal: Premajor hours ........................................ 19

Major Requirements
MAT 114 Introduction to Merchandising ...................................... 3
MAT 120 Textiles for Consumers ............................................ 3
MAT 237 Aesthetic Experience in Retail ...................................... 3
MAT 247 Dress and Culture .................................................. 3
MAT 315 Merchandise Planning and Control .............................. 3
MAT 414 Merchandising Strategy Analysis .................................. 3
MAT 425 Economics of Merchandise Sourcing .......................... 3
MAT 470 International Merchandising ........................................ 3
RTM 340 Professional Practice ............................................... 1
RTM 345 Service Management ............................................. 3
RTM 499 Retailing and Tourism Management
Internship ............................................................................ 6

Choose 6 credits from:
MAT 359 Special Topic in Merchandising,
Apparel and Textiles (Subtitle required) ........................................ 3
MAT 395 Independent Study in Merchandising,
Apparel and Textiles ........................................................... 3
MAT 400 Merchandising, Apparel and Textiles Study Tour ............ 3
MAT 515 Specification and Evaluation
of Textiles and Apparel ......................................................... 3
MAT 520 Textiles for Interiors .................................................. 3
MAT 522 History of Textiles .................................................... 3
MAT 533 History of Costume .................................................. 3
MAT 547 Social and Psychological Aspects of Apparel .................. 3
MAT 559 Special Topic in Merchandising,
Apparel and Textiles (Subtitle required) ........................................ 3
MAT 570 Electronic Retailing (E-Tailing) .................................... 3
MAT 595 Independent Study in Merchandising,
Apparel and Textiles ........................................................... 3

Subtotal: Major hours ..................................................... 40

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 6 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 120 hours required for graduation.

Subtotal: Minimum Elective hours ........................................ 5

TOTAL HOURS ............................................................ 120