



# DISCOVER

University of Kentucky • College of Agriculture

## Forestry

**UK**

Bachelor of Science in Forestry

Effective: July 1, 1994

Foresters are scientific specialists who manage forests for wood, water, wildlife, and recreation. Students in Forestry study the biological and managerial principles of renewable natural resources and the use of wood, a major forest product.

Kentucky boasts many forested areas with famous reputations, such as Natural Bridge, Red River Gorge, Daniel Boone National Forest, and Robinsom Forest. Robinsom Forest? This 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.

Foresters are scientific specialists who manage forests for wood, water, wildlife, and recreation. Students in Forestry study the biological and managerial principles of renewable natural resources and the use of wood, a major forest product.

The teaching, research, and Extension 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. Educational programs of the Department prepare students for careers as forestry and natural resource professionals. The research mission of the Department is to obtain basic and applied information leading to wise and effective management of our natural resources. Forestry Extension programs seek to educate land owners and the general public about wise and effective stewardship of forest resources.

The program in forestry leading to the professional degree in forestry of the Bachelor of Science 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 emphasis on management and processing principles makes UK forestry graduates attractive to the forest products industry; graduates are often employed as technical specialists, managers, and marketing and wood procurement personnel.

### Graduation Requirements

The 4-year Bachelor of Science program in Forestry consists of 133 semester hours. Eight of these hours are earned while attending a Summer Camp between the third and fourth academic years. This eight-week Summer Camp at the University's Robinsom Forest provides practical, in-the-field training and is required of all forestry students.

The curriculum consists of university, pre-professional, professional, and specialty support components. FOR 100, Introduction to Forestry, is required of all undergraduates during their first semester. This course provides a broad overview of forestry. Pre-professional, professional, and specialty support courses provide the skills and understanding to manage forest resources. Electives, chosen with the assistance of your adviser, strengthen your knowledge of basic principles.

# University Studies Program (USP) Requirements

Courses specifically listed in the University Studies outline may also satisfy Pre-Professional Requirements.

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## I. Basic Skills

### A. Mathematics

Satisfied by the following Pre-Professional requirement:  
MA 123— Elementary Calculus (3 hours)

### B. Foreign Language

Completed by one of the following  
1. Two years of the same foreign language in high school **or**  
2. An approved USP sequence (6-8 hours)

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## II. Inference and Communicative Skills

### A. Inference

Satisfied by the following Pre-Professional requirement:  
MA 123— Elementary Calculus (3 hours)

### B. University Writing

Completed by one of the following:  
1. ENG 101/102 Writing I and II (6 hours) **or**  
2. Students who score  $\geq 29$  on the English section of the ACT and who pass an English proficiency examination may satisfy the University Writing requirement by passing ENG 105 Writing: An Accelerated Course (3 hours). Students in the Honors Program should refer to the University Bulletin for alternatives for fulfilling the University Writing requirement.

### C. Oral Communication

Three hours from the approved list.  
May also be satisfied by GEN 100 and GEN 200.

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## III. Disciplinary Requirements

### A. Natural Sciences

Satisfied by the following Pre-Professional courses:  
CHE 105— General College Chemistry I  
CHE 107— General College Chemistry II  
CHE 115— General Chemistry Laboratory

### B. Social Sciences

Satisfied by one of the following Pre-Professional courses plus one other three-hour course from the approved list:  
ECO 201— Principles of Economics I **or**  
AEC 101— The Economics of Food and Agriculture  
  
(Note that if SOC 260— Population, Resources, and Change is used to fulfill Pre-Professional requirements, then the Pre-Professional requirements completely satisfy the USP Social Sciences requirement).

### C. Humanities

Six hours from the approved list.

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## IV. Cross-Disciplinary Requirement

Satisfied by the following Pre-Professional requirements:

BIO 150— Principles of Biology I and  
BIO 152— Principles of Biology II  
(Together with the chemistry sequence used to satisfy the Natural Sciences requirement).

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## V. Cross-Cultural Requirement

Three hours from the approved list.

## Pre-Professional Requirements: 37-39 hours

MA 112— Trigonometry .....	2
(if not fulfilled by secondary school curriculum or equivalent course work)	
MA 123— Elementary Calculus* .....	3
MA 162— Finite Mathematics and Its Applications .....	3
CHE 105— General College Chemistry I* .....	3
CHE 107— General College Chemistry II* .....	3
CHE 115— General Chemistry Laboratory* .....	3
BIO 150— Principles of Biology I* .....	3
BIO 151— Principles of Biology Laboratory I* .....	2
BIO 152— Principles of Biology II* .....	3
BIO 153— Principles of Biology Laboratory II* .....	2
PHY 151— Introduction to Physics .....	3
<b>or any higher-numbered physics course of at least three credit hours</b>	
AEC 101— The Economics of Food and Agriculture* .....	3
<b>or</b>	
ECO 201— Principles of Economics I*	
GEO 210— Pollution, Hazards, and Environmental Management* .....	3
<b>or</b>	
SOC 260— Population, Resources, and Change*	
<b>or one other departmentally-approved course of at least three credit hours</b>	
STA 291— Statistical Methods .....	3

## Professional Requirements: 59 hours *includes Summer Field Camp*

FOR 100— Introduction to Forestry*	3
FOR 200— Map Reading and Aerial Photogrammetry	2
FOR 205— Forest and Wildland Soils and Landscapes	4
FOR 219— Silvics and Tree Identification	3
FOR 300— Forest Measurements	4
FOR 340— Forest Ecology	3
FOR 350— Silviculture	4
FOR 360— Wood Technology	4
FOR 402— Forest Entomology	3
FOR 410— Forest Pathology	3
FOR 425— Timber Management	4
FOR 430— Forest Wildlife and Range Management	3
FOR 440— Forest Resources for Recreation	3
FOR 460G— Forest Watershed Management	3
FOR 480— Integrated Forest Resource Management	5

## Specialty Support Requirement: 3 hours

AEC 201— Introduction to Farm and Natural Resource Finance	3
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## Summer Field Camp: 8 hours

Attendance at Forestry Field Camp requires completion of the following courses: FOR 200, FOR 205, FOR 219, FOR 300, FOR 340, FOR 350, FOR 360 (grade of C or better required in FOR 200, FOR 205, and FOR 219).

FOR 375— Taxonomy of Forest Vegetation	1
FOR 376— Silvicultural Practices	2
FOR 377— Forest Surveying	1
FOR 378— Forest Mensuration	2
FOR 379— Harvest and Utilization of Wood	2

\* May be used to satisfy University Studies requirements.

## Electives

(12 hours, assuming that students enter UK without deficiencies)

Electives should be selected in consultation with an adviser to complete the 133 hours required for graduation.

## Suggested Schedule

If you enroll at UK during your first semester, you may be able to follow this suggested schedule. **Use this schedule only as a guide**, since schedules will vary if: you have previously attended another college, you have earned credit by examination or via a high school advanced placement course, you are not starting in the fall semester, or UK's course schedules change. Your faculty adviser will assist you in course selection and career planning.

This course schedule is for students who have completed trigonometry and two years of the same foreign language in high school and who enter UK prepared to take calculus. Where choices are available, this schedule includes the courses that give the most efficient schedule. If you must deviate from this schedule in any way, please see a Forestry adviser because **deviations can delay your graduation**.

### First Year

#### Fall Semester (15 hours)

ENG 101— Writing I	3
CHE 105— General College Chem	3
FOR 100— Introduction to Forestry	3
MA 123— Elementary Calculus	3
USP Requirement	3

#### Spring Semester (17 hours)

BIO 150— Principles of Biology I	3
BIO 151— Principles of Biology Laboratory I	2
ENG 102— Writing II	3
CHE 107— General College Chemistry II	3
CHE 115— General Chemistry Laboratory	3
USP Requirement	3

### Second Year

#### Fall Semester (15 hours)

BIO 152— Principles of Biology II	3
BIO 153— Principles of Biology Laboratory II	3
FOR 205— Forest and Wildland Soils and Landscapes	4
FOR 219— Silvics and Tree Identification	3
MA 162— Finite Mathematics and its Applications	3

#### Spring Semester (17 hours)

FOR 200— Map Reading and Aerial Photogrammetry	2
SOC 260 or GEO 210	3
STA 291— Statistical Methods	3
PHY 151— Introduction to Physics	3
AEC 101 or ECO 201	3
USP Requirement	3

## Third Year

### *Fall Semester (16 hours)*

AEC 201— Introduction to Farm and Natural Resource Finance .....	3
FOR 300— Forest Measurements .....	4
FOR 340— Forest Ecology .....	3
FOR 402— Forest Entomology .....	3
Elective .....	3

### *Spring Semester (17 hours)*

FOR 350— Silviculture .....	4
FOR 360— Wood Technology .....	4
FOR 410— Forest Pathology .....	3
Electives .....	6

### *Summer Field Camp (8 hours)*

FOR 375— Taxonomy of Forest Vegetation .....	1
FOR 376— Silvicultural Practices .....	2
FOR 377— Forest Surveying .....	1
FOR 378— Forest Measurements .....	2
FOR 379— Harvest and Utilization of Wood .....	2

## Fourth Year

### *Fall Semester (16 hours)*

FOR 425— Timber Management .....	4
FOR 430— Forest Wildlife and Range Management .....	3
FOR 440— Forest Resources for Recreation .....	3
FOR 460G— Forest Watershed Management .....	3
Elective .....	3

### *Spring Semester (14 hours)*

FOR 480— Integrated Forest Resource Management .....	5
USP Cross-Cultural Requirement .....	3
Electives .....	6

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## For More Information:

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