

## APPLICATION FOR NEW COURSE

1. Submitted by the College of \_\_\_\_\_ Date: \_\_\_\_\_

Department/Division proposing course: \_\_\_\_\_

2. Proposed designation and Bulletin description of this course:

a. Prefix and Number \_\_\_\_\_

b. Title\* \_\_\_\_\_

\*If title is longer than 24 characters, write a sensible title (24 characters or less) for use on transcripts:

\_\_\_\_\_

c. Courses must be described by at least one of the categories below. Include the number of actual contact hours per week for each category, as applicable.

( \_\_\_ ) CLINICAL      ( \_\_\_ ) COLLOQUIUM      ( \_\_\_ ) DISCUSSION      ( \_\_\_ ) LABORATORY      ( \_\_\_ ) LECTURE

( \_\_\_ ) INDEPEND. STUDY      ( \_\_\_ ) PRACTICUM      ( \_\_\_ ) RECITATION      ( \_\_\_ ) RESEARCH      ( \_\_\_ ) RESIDENCY

( \_\_\_ ) SEMINAR      ( \_\_\_ ) STUDIO      ( \_\_\_ ) OTHER – Please explain: \_\_\_\_\_

d. Please choose a grading system:     Letter (A, B, C, etc.)       Pass/Fail

e. Number of credit hours: \_\_\_\_\_

f. Is this course repeatable?    YES     NO       If YES, maximum number of credit hours: \_\_\_\_\_

g. Course description:

\_\_\_\_\_

\_\_\_\_\_

h. Prerequisite(s), if any:

\_\_\_\_\_

\_\_\_\_\_

i. Will this course be offered through Distance Learning?      YES     NO

If YES, please circle one of the methods below that reflects how the majority of the course content will be delivered:

Internet/Web-  
based

Interactive  
video

Extended campus

Kentucky Educational Television  
(KET/teleweb)

Other

Please describe "Other": \_\_\_\_\_

3. Teaching method:     N/A    or     Community-Based Experience     Service Learning Component     Both

4. To be cross-listed as: \_\_\_\_\_  
Prefix and Number      Signature of chair of cross-listing department

5. Requested effective date (term/year): \_\_\_\_\_ / \_\_\_\_\_

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6. Course to be offered (please check all that apply):  Fall  Spring  Summer
7. Will the course be offered every year?  YES  NO  
If NO, please explain: \_\_\_\_\_
8. Why is this course needed?  
\_\_\_\_\_  
\_\_\_\_\_
9. a. By whom will the course be taught? \_\_\_\_\_
- b. Are facilities for teaching the course now available?  YES  NO  
If NO, what plans have been made for providing them?  
\_\_\_\_\_
10. What yearly enrollment may be reasonably anticipated?  
\_\_\_\_\_  
\_\_\_\_\_
11. a. Will this course serve students primarily within the department?  Yes  No
- b. Will it be of interest to a significant number of students outside the department?  YES  NO  
If YES, please explain.  
\_\_\_\_\_  
\_\_\_\_\_
12. Will the course serve as a University Studies Program course<sup>†</sup>?  YES  NO  
If YES, under what Area? \_\_\_\_\_
- <sup>†</sup>AS OF SPRING 2007, THERE IS A HIATUS ON APPROVAL OF NEW COURSES FOR USP.
13. Check the category most applicable to this course:
- traditional – offered in corresponding departments at universities elsewhere
  - relatively new – now being widely established
  - not yet to be found in many (or any) other universities
14. Is this course applicable to the requirements for at least one degree or certificate at UK?  Yes  No
15. Is this course part of a proposed new program?  YES  NO  
If YES, please name: \_\_\_\_\_
16. Will adding this course change the degree requirements for ANY program on campus?  YES  NO  
If YES<sup>‡</sup>, list below the programs that will require this course:  
\_\_\_\_\_  
\_\_\_\_\_

<sup>‡</sup>In order to change the program(s), a program change form(s) must also be submitted.

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17.  The major teaching objectives of the proposed course, syllabus and/or reference list to be used are attached.
18.  Check box if course is 400G or 500. If the course is 400G- or 500-level, *you must include a syllabus showing differentiation* for undergraduate and graduate students by (i) requiring additional assignments by the graduate students; and/or (ii) the establishment of different grading criteria in the course for graduate students. (See *SR 3.1.4*)

19. Within the department, who should be contacted for further information about the proposed new course?

Name: \_\_\_\_\_ Phone: \_\_\_\_\_ Email: \_\_\_\_\_

20. Signatures to report approvals:

DATE of Approval by Department Faculty	/	<div style="display: flex; justify-content: space-between;"> <span>printed name</span> <span>Reported by Department Chair</span> <span>signature</span> </div> <div style="text-align: right; margin-top: 10px;"> </div>
DATE of Approval by College Faculty	/	<div style="display: flex; justify-content: space-between;"> <span>printed name</span> <span>Reported by College Dean</span> <span>signature</span> </div>
* DATE of Approval by Undergraduate Council	/	<div style="display: flex; justify-content: space-between;"> <span>printed name</span> <span>Reported by Undergraduate Council Chair</span> <span>signature</span> </div>
* DATE of Approval by Graduate Council	/	<div style="display: flex; justify-content: space-between;"> <span>printed name</span> <span>Reported by Graduate Council Chair</span> <span>signature</span> </div>
* DATE of Approval by Health Care Colleges Council (HCCC)	/	<div style="display: flex; justify-content: space-between;"> <span>printed name</span> <span>Reported by Health Care Colleges Council Chair</span> <span>signature</span> </div>
* DATE of Approval by Senate Council		Reported by Office of the Senate Council
* DATE of Approval by University Senate		Reported by Office of the Senate Council

\*If applicable, as provided by the *University Senate Rules*

**Course Syllabus**  
**FOR 359**  
**Forest Operations and Utilization**

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**Class Period**

Practicum (Spring Field Semester): 40 hours per week for 3 weeks of Spring Field Semester.

**Instructor**

Dr. Terry Conners  
Room 202 T.P. Cooper Building  
859-257-2463  
[tconners@uky.edu](mailto:tconners@uky.edu)

Dr. Jeff Stringer  
Room 213B T.P. Cooper Building  
859-257-5994  
[stringer@uky.edu](mailto:stringer@uky.edu)

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**COURSE OVERVIEW**

**Course Description**

Students will learn to plan and design timber harvests in line with Best Management Practices, mark a stand for harvest, and describe the effects of harvesting on the landscape. They will learn to use herbicides and pesticides to eradicate invasive species, perform tree planting, conduct thinnings, and participate in prescribed burns. Students will become familiar with major timber utilization technologies and learn to determine value added in converting standing trees into lumber and lumber into finished products. *Prerequisites: FOR 150, FOR 219, FOR 250, FOR 370, FOR 330, FOR 340, FOR 350, PLS 366 or consent of the field semester coordinator.*

**Student Learning Outcomes**

At the end of this course, the student will be able to demonstrate the following skills.

Harvesting

1. Apply best management practices (BMPs) to forestry practices.
2. Explain various harvesting practices and the related costs associated with these practices.
3. Apply harvesting layout and design principles and describe the correct procedures for creating roads, landings, skids, stream crossings, fires lanes, logging roads, and marking a stand to survive a harvest. Apply BMPs to harvesting layout and design.
4. Use your knowledge of harvesting, forests, soils, watersheds, and wildlife to examine the impact of harvesting on the landscape.
5. Use your knowledge of forestry and logging to become certified as a Master Logger, which includes chainsaw training.

## Technical Aspects

1. Explain the costs (economic, social, and environmental) associated with harvesting, site preparations, and prescribed burns.
2. Use your knowledge of proper herbicide and pesticide application techniques to become certified in herbicide and pesticide application.
3. Demonstrate the correct techniques for tree planting.
4. Demonstrate the correct procedures for conducting a thinning operation.
5. Examine prescribed burns and recognize how fire affects wildlife habitat structure and environmental conditions impacting understory plant response.
6. Describe genetic concepts after visiting a breeding program seed orchard.

## Utilization – Primary and Secondary

1. Compare various mill processes and mill facilities such as facility size, process, wood input, tree type, and supply.
2. Calculate value added at secondary processing facilities.

## **Grading Procedures – Assignments, Grading Criteria, Letter Grades**

Field Participation – 10%

Field Exercises – 60%

Quizzes – 30%

### Letter Grades

A:  $\geq 90\%$

B:  $\geq 80\%$  and  $< 90\%$

C:  $\geq 70\%$  and  $< 80\%$

D:  $\geq 60\%$  and  $< 70\%$

E:  $< 60\%$

## **Course Outline**

*{Week 1 is FOR 355 Forest Fire Control and Use}*

*{Week 2-6 is FOR 356 Landscape Assessment}*

*{Week 7-8 is FOR 357 Inventory and Measurements II}*

*{Week 9-11 is FOR 358 Silvicultural Practices}*

Week 12: Harvesting

Week 13: Technical Aspects

Week 14: Utilization – Primary and Secondary

During this module, students will examine harvesting practices, including layout and design. Students will use silvicultural prescriptions learned in the previous module and apply those prescriptions to this module. Students will receive hands-on training in prescribed burns, site preparation, herbicide and pesticide application, and tree planting and learn the costs associated with these activities.

Integration: Students will design harvesting operations on the sample property using geospatial techniques, good business sense, and ethical considerations.

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## **COURSE POLICIES**

### **Attendance and Excused Absences**

Attendance is mandatory. If you foresee an absence, it is essential that you contact the instructor as soon as possible. If a student has excused absences in excess of one fifth of the class contact hours, a student may petition and receive a “W” or an “I” for the class.

### **Academic Integrity, Cheating and Plagiarism**

Cheating of any form, including plagiarism, will not be tolerated. Cheating will be dealt with in accordance with University regulations. (See <http://www.uky.edu/StudentAffairs/Code/>)

### **Professional Preparation**

This course helps prepare you for your professional career. You are expected to attend class, be on time, participate in class discussions, and be respectful of your instructor and fellow classmates.

### **Disability Statement**

Students with a disability that need classroom or exam accommodations should contact the Disability Resource Center, 257-2754, room 2 Alumni Gym, [jkarnes@uky.edu](mailto:jkarnes@uky.edu) .