





## APPLICATION FOR NEW COURSE

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	/	Reported by Department Chair
	printed name	signature
DATE of Approval by College Faculty		Reported by College Dean
	printed name	signature
* DATE of Approval by Undergraduate Council	/	Reported by Undergraduate Council Chair
	printed name	signature
* DATE of Approval by Graduate Council	/	Reported by Graduate Council Chair
	printed name	signature
* DATE of Approval by Health Care Colleges Council (HCCC)	/	Reported by Health Care Colleges Council Chair
	printed name	signature
* 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 356**  
**Landscape Assessment**

---

**Class Period**

Practicum (Spring Field Semester): 40 hours per week for 5 weeks of Spring Field Semester.

**Instructor**

Dr. Paul Kalisz  
Room 102 T.P. Cooper Building  
859-257-7606  
[pkalisz@uky.edu](mailto:pkalisz@uky.edu)

---

**COURSE OVERVIEW**

**Course Description**

Students will learn to assess various landscape types through week-long, in-depth studies of five topic areas, while studying how the topics are interrelated. The topic areas are winter dendrology, wildlife, soils, hydrology, and health and protection. During the module, students will visit sites throughout Kentucky and the region. *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.

Dendrology (Winter)

1. Identify trees in the winter landscape by using tree components such as buds, twigs, and bark.
2. Use your knowledge of site quality characteristics to understand why certain tree species are located on different sites.

Wildlife

1. Apply knowledge of sampling theory in wildlife to practical applications such as taking vegetation measurement samples.
2. Evaluate cover at the ground, mid-story, and canopy level to determine how vegetation impacts wildlife habitat.
3. Apply knowledge of home range and patch size to select appropriate wildlife management principles for a given area.

## Soils

1. Relate how soil properties influence a given landscape.
2. Analyze the difference between soil types and evaluate soil site quality.

## Hydrology

1. Demonstrate proper sampling procedures for measuring flow, water quality, and other hydrologic variables.
2. Use collected data to analyze the variation between different landscapes and watersheds.

## Health and Protection

1. Identify exotic and invasive plants. Explain exotic and invasive plant characteristics and relate how these characteristics impact rural and urban areas.
2. Identify forest health threats (pests, disease, wind, ice, water, drought, fire, wildlife, invasive plants) and use your knowledge of forest practices to describe ways to protect the forest from these threats.
3. Analyze ecosystems and critical habitat areas and the related silvicultural practices that should or should not be conducted in these areas.

## **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: Dendrology (Winter)

Week 3: Wildlife

Week 4: Soils

Week 5: Hydrology

Week 6: Health and Protection

During this module, students will learn to assess landscapes. Students will receive weeklong in-depth knowledge on a main topic area, while incorporating material from other topics. These topics include dendrology, wildlife, soils, hydrology, health and protection, and

inventory and measurements. Students will visit different ecosystems in the region to understand both plant and animal communities that exist and how soils and hydrology help shape the landscape.

Integration: Throughout this module, students will return to the sample property to understand dendrology, wildlife, soils, hydrology, health and protection, inventory and measurements at the sample property. During visits to the sample property, students will gather data on particular topic areas to create GIS map layers for the sites. At the end of the module, students will have assessed the sample property and created a digital map of the site containing GIS layers for trees, wildlife, soils, hydrology, stand inventory data, and forest health.

---

## **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) .