

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	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by Department Chair signature </div> <div style="text-align: right; margin-top: 10px;"> </div>
DATE of Approval by College Faculty	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by College Dean signature </div>
* DATE of Approval by Undergraduate Council	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by Undergraduate Council Chair signature </div>
* DATE of Approval by Graduate Council	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by Graduate Council Chair signature </div>
* DATE of Approval by Health Care Colleges Council (HCCC)	/	<div style="display: flex; justify-content: space-between;"> printed name Reported by Health Care Colleges Council Chair signature </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 310

Introduction to Forest Health and Protection

Class Period

Lecture: 3 hours per week

Instructor

Dr. Paul Kalisz

Room 102 T.P. Cooper Building

859-257-7606

pkalisz@uky.edu

COURSE OVERVIEW

Course Description

A modular course with approximately one-third devoted to forest entomology, one-third to forest pathology, and one-third devoted to other topics such as abiotic agents and invasive species. Students will learn to identify various agents that affect forest health, assess the impacts of these agents on forest health, and learn different methods for addressing these impacts. *Prerequisites: BIO 103 or BIO 150.*

Student Learning Outcomes

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

1. When presented with a forest health problem, you will be able to describe the problem, how it got there, and what can be done about it.
2. Describe the basic concepts and terminology associated with forest health and protection.
3. When given historical forest health issues, you will be able to describe different aspects and consequences of historical forest health issues.
4. When presented with invasive or exotic plants in a rural or urban area, you will be able to identify the plants, describe how they affect the rural and/or urban area, and identify methods of addressing the problem.
5. When presented with a pest or disease, you will be able to identify the pest or disease, describe how it affects forest health and forest products, and identify methods of addressing the problem.
6. Describe forest health issues in urban areas and at the rural-urban interface.

7. Identify the impacts various elements such as fire, wind, water, freeze, and drought have on forest health. Identify the impacts animals, such as deer and elk, have on forest health. Describe different methods of addressing these elements.
8. Describe forest health issues in Kentucky and the region. These issues may include southern pine beetle, gypsy moth, hemlock woolly adelgid, oak decline, emerald ash borer, dogwood anthracnose, and sudden oak death.

Grading Procedures – Assignments, Grading Criteria, Letter Grades

Assignments and in-class quizzes - 25%

Three written exams - 30%

Term Report - 20%

Participation - 5%

Final exam - 20%

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 – Ecological Principles and Concepts of Forest Health

Week 2 – Invasive Exotic Species

Week 3 – Fire

Week 4 – Weather, Climate, and Climate Change

Week 5 – Introduction to Diseases

Week 6 – Animals, Chemical Abnormalities and People-Pressure Diseases

Week 7 – Fungal - Foliage, Vascular Wilt, and Canker Diseases

Week 8 – Fungal – Rust and Root Diseases; Discoloration and Decay

Week 9 – Bacterial and Viral Diseases; Nematodes and Parasitic Seed Plants

Week 10 – Forest Declines; Nursery and Seed Orchard Diseases

Week 11 – Introduction to Forest Entomology

Week 12 – Defoliators

Week 13 – Bark Beetles and Borers

Week 14 – Piercing and Sucking Insects

COURSE POLICIES

Attendance and Excused Absences

Class periods will be used for discussions, lectures, slide shows, writing, and quizzes. You must read the text to effectively and successfully participate in class activities and to do well on tests. Please be prepared and participate. Your preparation and participation will help to make the class interesting and worth-while for all of us. Attendance is mandatory - 1% will be deducted from your final grade for each unexcused absence.

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/Student Affairs/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 .