

# PLANT PATHOLOGY

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Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.

More Info (<https://one.ufl.edu/soc/>)

*Unless otherwise indicated in the course description, all courses at the University of Florida are taught in English, with the exception of specific foreign language courses.*

## Courses

### **PLP 2000 Plants, Plagues, & People 3 Credits**

**Grading Scheme:** Letter Grade

Biology and history of the human species for non-science majors. A chronological presentation from the origin of life to the present with emphasis on the impact that plants, animals and diseases have had and are having on human civilizations.

**Attributes:** General Education - Biological Science

### **PLP 2060 Fungus among Us: Mushrooms, Molds and Civilization 3 Credits**

**Grading Scheme:** Letter Grade

Role of fungi in human affairs, including their historical use as food or medicine or in religious activities. Also includes their current impact on society as pathogens of plants and animals, in the deterioration of food and fabric and in the synthesis of important drugs. (B)

**Attributes:** General Education - Biological Science

### **PLP 2311 What Are Plants Talking About? 3 Credits**

**Grading Scheme:** Letter Grade

Emerging pathogens and pests are threatening our plants. Are plants crying out for help and we can't hear? Do plants talk? Remember? Feel?

These and other intriguing and scientifically pressing questions will be addressed in this multi-disciplinary course and addresses topics about plant physiology, plant pathology, entomology, and microbiology. This course affords students the ability to critically examine and evaluate the principles of the scientific method, model construction, and use the scientific method to explain natural experiences and phenomena.

**Prerequisite:** Quest 1 course with a minimum grade of C.

**Attributes:** Quest 2, General Education - Biological Science

### **PLP 3002C Fundamentals of Plant Pathology 4 Credits**

**Grading Scheme:** Letter Grade

Principles and practices of plant pathology.

**Prerequisite:** BOT 2010C or BSC 2010.

### **PLP 3230 Survey of Plant Pathogens 3 Credits**

**Grading Scheme:** Letter Grade

Introduces the main groups of pathogens that cause plant disease, how they spread and affect plants and how they are identified and managed. Also includes specific examples of how plant pathogens have changed the course of human history and culture.

**Prerequisite:** BOT 2010C or BSC 2010.

### **PLP 4104 Applied Plant Disease Management 3 Credits**

**Grading Scheme:** Letter Grade

Summarizes the methods and strategies used to manage plant disease by targeting vulnerable points in the pathogen life cycle and disease epidemic. Utilize knowledge of organismal biology, epidemiology, management chemistry, and economics to develop strategies for managing plant diseases.

**Prerequisite:** BSC 2010/BSC 2010L or BOT 2010C and BSC 2011/BSC 2011L or BOT 2011C.

### **PLP 4222C Introduction to Plant Virology 3 Credits**

**Grading Scheme:** Letter Grade

Introduces plant virology by covering the principles of plant virology, symptomatology, virus groups, structure, function, spread, detection and control.

**Prerequisite:** PLP 3002C and BCH 3025.

### **PLP 4242C Introduction to Plant Bacteriology 3 Credits**

**Grading Scheme:** Letter Grade

Discusses the main characteristics and properties of bacteria that cause disease in plants with emphasis on problems unique to plant pathology.

Offered every other year.

**Prerequisite:** MCB 3020;

**Corequisite:** PLP 3002C.

### **PLP 4260C Introduction to Plant Pathogenic Fungi 3 Credits**

**Grading Scheme:** Letter Grade

Introduces the groups of fungi that cause disease in plants, including morphology, taxonomy, physiology, genetics and control of these fungi.

**Prerequisite:** PLP 3002C or PLP 4653C.

**PLP 4600 RNA biology 3 Credits**

**Grading Scheme:** Letter Grade

RNA Biology has three one-hour lectures per week, and no laboratory. This advanced RNA biology course is designed for upper-level undergraduate students and focuses on a specialized biology topic, RNA biology, including its structure and related diverse functions. Students will review, discuss and critique both classic and state-of-the-art literature.

**Prerequisite:** BCH 4024 or PCB 4522 with a minimum grade of C or their equivalents at other universities or permission of the instructor.

**PLP 4653C Basic Fungal Biology 4 Credits**

**Grading Scheme:** Letter Grade

Introduces the groups of fungi and fungi-like organisms. Discusses the structure, development, physiology, genetics, ecology and systematics of fungi.

**Prerequisite:** (BSC 2010 and BSC 2011) or PLP 3002C.

**PLP 4900 Supervised Extension Experience in Plant Pathology 0-3 Credits**

**Grading Scheme:** S/U

Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation.

**Prerequisite:** Instructor permission.

**PLP 4905 Problems in Intermediate Plant Pathology 1-4 Credits**

**Grading Scheme:** Letter Grade

Individual study and research in areas of special interest to undergraduates whose major field is plant pathology.

**Prerequisite:** PLP 3002 or the equivalent.

**PLP 4911 Supervised Research in Plant Pathology 0-3 Credits**

**Grading Scheme:** S/U

Provides firsthand, supervised research. Projects may involve inquiry, design, investigation, scholarship, discovery, or application.

**Prerequisite:** Instructor permission.

**PLP 4915 Honors Thesis Research in Plant Pathology 0-3 Credits**

**Grading Scheme:** S/U

Independent research in plant pathology leading to an honors thesis; mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application.

**Prerequisite:** junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file.

**PLP 4931 Seminar in Plant Pathology 1 Credit**

**Grading Scheme:** Letter Grade

Discusses current concepts and procedures related to the practice of plant pathology as a profession.

**Prerequisite:** PLP 3002C.

**PLP 4932 Special Topics in Plant Pathology 1-3 Credits**

**Grading Scheme:** Letter Grade

Special topics in plant pathology.

**Prerequisite:** sophomore standing or higher.

**PLS 4941 Practical Work Experience 1-3 Credits**

**Grading Scheme:** S/U

Practical, hands-on experience in the plant sciences through a paid internship in the industry. This must be a new experience and related to the student's field of study. One month of full-time work is required for each credit.

**Prerequisite:** Plant Science major of junior standing or higher.

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