

PLANT PATHOLOGY

Program Information

A student may pursue studies in one of several basic areas of plant pathology. These areas include fungal plant pathology, plant bacteriology, plant virology, diagnostics, control, and also molecular and biochemical aspects of host-pathogen systems, biological control of pathogens and weeds, epidemiology, etiology, genetics of host-pathogen systems, soil microbiology, and pathogen taxonomy. In Florida, the variety of cultivated plants, coupled with an environment ideal for plant disease development, offers the student opportunities to study diseases of many crops as they develop. First-hand knowledge can be gained of diseases of field, fruit, ornamental, pasture, range, turf, and vegetable crops in temperate, subtropical, and tropical environments. Students who anticipate study in plant pathology at the University of Florida should include in their undergraduate programs training in botany, chemistry (through biochemistry), genetics, and microbiology.

Courses in nematology are offered by the Department of Entomology and Nematology.

Degrees Offered

Degrees Offered with a Major in Plant Pathology

- Doctor of Philosophy
 - without a concentration
 - concentration in Toxicology
- Master of Science

Requirements for these degrees are given in the Graduate Degrees (<http://gradcatalog.ufl.edu/graduate/degrees/>) section of this catalog.

Courses

Plant Pathology Departmental Courses

Code	Title	Credits
ALS 5932	Special Topics	1-4
ALS 6925	Integrated Plant Medicine	4
ALS 6931	Plant Medicine Program Seminar	1
PLP 5005C	General Plant Pathology	4
PLP 5102	Theory and Practice of Plant Disease Control	3
PLP 5115C	Citrus Pathology	3
PLP 6105	Applied Plant Disease Management	3
PLP 6223C	Viral Pathogens of Plants	3
PLP 6241C	Bacterial Plant Pathogens	3
PLP 6262C	Fungal Plant Pathogens	3
PLP 6291	Plant Disease Diagnosis	3
PLP 6303	Host-Parasite Interactions II	3
PLP 6404	Epidemiology of Plant Disease	4
PLP 6502	Host-Parasite Interactions I	3
PLP 6621C	Pop Genetics Microbes	3
PLP 6636	Frontiers in Plant Biotechnology	3
PLP 6656C	Fungal Biology	4
PLP 6701	Impact through Networks	2
PLP 6905	Problems in Plant Pathology	1-4
PLP 6910	Supervised Research	1-5
PLP 6921	Colloquium in Principles of Plant Pathology	1
PLP 6932	Seminar in Plant Pathology	1
PLP 6940	Supervised Teaching	1-5

PLP 6942	Professional Internship in Plant Disease Clinic	3
PLP 6971	Research for Master's Thesis	1-15
PLP 7946	Plant Pathology Internship	1-10
PLP 7979	Advanced Research	1-12
PLP 7980	Research for Doctoral Dissertation	1-15

College of Agricultural and Life Sciences Courses

Code	Title	Credits
ALS 5156	Agricultural Ecology Principles and Applications	3
ALS 5905	Individual Study	1-4
ALS 5932	Special Topics	1-4
ALS 6046	Grant Writing	2
ALS 6166	Exotic Species and Biosecurity Issues	3
ALS 6921	Colloquium on Plant Pests of Regulatory Significance	1
ALS 6925	Integrated Plant Medicine	4
ALS 6931	Plant Medicine Program Seminar	1
ALS 6935	Topics in Biological Invasions	3
ALS 6942	Principles of Plant Pest Risk Assessment and Management	3
ALS 6943	Internship in Plant Pest Risk Assessment and Management	1-10
ANS 6936	Graduate Seminar in Animal Molecular and Cell Biology	1-2
BCH 5045	Graduate Survey of Biochemistry	4
STA 6093	Introduction to Applied Statistics for Agricultural and Life Sciences	3
STA 6329	Matrix Algebra and Statistical Computing	3

Student Learning Outcomes

Plant pathology (PHD)

SLO 1 Knowledge
Describe and explain the literature, theories and ideas of plant pathology

SLO 2 Skills
Utilize the scientific method to conduct experimental research

SLO 3 Skills
Communicate effectively skills in oral and written form

SLO 4 Skills
Develop, organization and deliver instruction

SLO 5 Professional Behavior
Exhibit professional behavior and ethical practices in the conduct of research and scholarship

PLant pathology (MS)

SLO 1 Knowledge
Describe and explain the literature, theories and ideas of plant pathology

SLO 2 Skills
Utilize the scientific method to conduct experimental research

SLO 3 Skills
Communicate effectively in oral and written form

SLO 4 Skills

Develop, organize and deliver instruction

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Exhibit professional behavior and ethical practices in the conduct of research and scholarship