PLANT PATHOLOGY (PLP)

PLP 2143 Global Issues in Agricultural Biosecurity and Forensics
Description: Biosecurity, biosafety, bioterrorism, microbial forensics, emerging organisms, invasive species, quarantine, response, surveillance, detection, diagnostics, and how all system components integrate to science and to agricultural specialties, economics and defense. Same course as ENTO 2143.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Undergraduate
Schedule types: Lecture
Department/School: Entomol & Plant Path

PLP 3343 Principles of Plant Pathology
Prerequisites: BOT 1404 or BOT 3463 or MICR 2125 or PLNT 2013.
Description: Introduction to basic principles and concepts of plant pathology, including the nature, cause and control of biotic and environmentally induced plant diseases, with emphasis on principles and methods of disease management. Offered in combination with PLP 5343. No credit for both PLP 3343 and PLP 5343. Previously offered as PLP 3344.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Entomol & Plant Path

PLP 3553 Fungi: Myths and More
Prerequisites: BIOL 1114 or equivalent.
Description: Fungal biology covering environmental roles and impacts on the health and nutrition of plants, animals and humans. Ethnomycological and industrial uses of fungi in foods, medicines, and intoxicants, and associated folklore and myths. Microscopy, microbiological methods, mushroom cultivation, and identification of microfungi and wild mushrooms. Same course as BOT 3553 or PBIO 3553.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Entomol & Plant Path

PLP 3663 Turfgrass Integrated Pest Management
Prerequisites: PLP 3343, ENTO 2993.
Description: The biology, ecology and identification of fungal, nematode and insect turfgrass pests. Contemporary concepts and applications of integrated control practices available for managing turfgrass pests presented along with decision-making tools for use in turfgrass pest management programs. Same course as ENTO 3663.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Undergraduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Entomol & Plant Path

PLP 4400 Special Topics
Prerequisites: Consent of instructor.
Description: Special topics in Plant Pathology, Entomology or related fields. Same course as ENTO 4400. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.
Credit hours: 1-3
Contact hours: Contact: 1-3 Other: 1-3
Levels: Undergraduate
Schedule types: Independent Study
Department/School: Entomol & Plant Path

PLP 4923 Applications of Biotechnology in Pest Management
Prerequisites: BIOL 1114 and CHEM 1215 or equivalent.
Description: Applications of biotechnology in controlling arthropod pests of plants and animals, plant pathogens, and weeds. Introduction to underlying technology, products being developed and deployed, their effectiveness and associated problems or concerns resulting from their use. Same course as ENTO 4923 and PLNT 4923. Previously offered as PLP 4922.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate, Undergraduate
Schedule types: Lecture
Department/School: Entomol & Plant Path

PLP 5000 Research
Description: Research for the MS degree Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.
Credit hours: 1-6
Contact hours: Contact: 1-6 Other: 1-6
Levels: Graduate
Schedule types: Independent Study
Department/School: Entomol & Plant Path

PLP 5003 Plant Nematology
Prerequisites: PLP 3343 or concurrent enrollment.
Description: General morphology, taxonomy and bionomics of nonparasitic and plant parasitic nematodes. Plant parasitic nematode assay techniques, subfamily identification, symptomology, pathogenicity and control. Previously offered as PLP 5004.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Graduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Entomol & Plant Path

PLP 5014 Plant Virology
Credit hours: 4
Contact hours: Lecture: 3 Lab: 2 Contact: 5
Levels: Graduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Entomol & Plant Path

PLP 5104 Mycology
Prerequisites: Graduate standing.
Description: A systematic study of the fungi, with emphasis on taxonomy, comparative morphology and fungal biology. Same course as BOT 5104 or PBIO 5104.
Credit hours: 4
Contact hours: Lecture: 3 Lab: 2 Contact: 5
Levels: Graduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Entomol & Plant Path
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<th>Course Code</th>
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<td>PLP 5304</td>
<td>Phytophotobiology</td>
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<td>Lab, Lecture, Combined lecture and lab</td>
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<td>PLP 5343</td>
<td>Principles of Plant Pathology</td>
<td>Entomol &amp; Plant Path</td>
<td>Lab, Lecture, Combined lecture and lab</td>
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<td>PLP 5413</td>
<td>Plant Disease Epidemiology</td>
<td>Entomol &amp; Plant Path</td>
<td>Lab, Lecture, Combined lecture and lab</td>
<td>Graduate</td>
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<td>PLP 5524</td>
<td>Integrated Management of Insect Pests and Pathogens</td>
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<td>PLP 5560</td>
<td>Problems in Plant Pathology</td>
<td>Entomol &amp; Plant Path</td>
<td>Lab, Lecture, Combined lecture and lab</td>
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<td>Host Plant Resistance</td>
<td>Entomol &amp; Plant Path</td>
<td>Lab, Lecture, Combined lecture and lab</td>
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<td>PLP 5613</td>
<td>Biotechnology Methods</td>
<td>Entomol &amp; Plant Path</td>
<td>Lab, Lecture, Combined lecture and lab</td>
<td>Graduate</td>
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<td>PLP 5700</td>
<td>Teaching Practicum in Plant Pathology</td>
<td>Entomol &amp; Plant Path</td>
<td>Discussion</td>
<td>Graduate</td>
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<td>PLP 5724</td>
<td>Physiology of Host-Pathogen Interactions</td>
<td>Entomol &amp; Plant Path</td>
<td>Lab, Lecture, Combined lecture and lab</td>
<td>Graduate</td>
<td>4: Lab: 0 Contact: 4</td>
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PLP 5870 Scientific Presentations
Prerequisites: Consent of instructor.
Description: Preparation and delivery of scientific presentations, including 50-minute seminars, 10-minute talks, and posters. Same course as ENTO 5870. Offered for 1 credit, max 5 credit hours.
Credit hours: 1
Contact hours: Contact: 1 Other: 1
Levels: Graduate
Schedule types: Independent Study
Department/School: Entomol & Plant Path

PLP 5992 Career Skills and Professionalism for Scientists
Prerequisites: Graduate standing.
Description: For graduate students majoring in science-based fields, especially those nearing graduation. Skills needed for effective job application and interviewing, career development and advancement, communication with professional colleagues and the public, and personal professional development. Same course as ENTO 5992.
Credit hours: 2
Contact hours: Lecture: 2 Contact: 2
Levels: Graduate
Schedule types: Lecture
Department/School: Entomol & Plant Path

PLP 6000 Research
Description: Research for the PhD degree. Offered for variable credit, 1-12 credit hours, maximum of 36 credit hours.
Credit hours: 1-12
Contact hours: Contact: 1-12 Other: 1-12
Levels: Graduate
Schedule types: Independent Study
Department/School: Entomol & Plant Path

PLP 6303 Soilborne Diseases of Plants
Prerequisites: PLP 3343.
Description: Soilborne diseases, their reception and importance, the pathogens involved, rhizoplane and rhizosphere influences, inoculum potential, specialization of pathogens, suppressive soil effects, and disease management. Lecture and discussion sessions will emphasize in-depth understanding of problems and complexities associated with studies of soilborne pathogens.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Graduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Entomol & Plant Path