### PLANT PATHOLOGY (PLPT)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Crosslisted with</th>
<th>Prerequisites</th>
<th>Description</th>
<th>Credit Hours</th>
<th>Max credits per semester</th>
<th>Max credits per degree</th>
<th>Format</th>
<th>Prerequisite for</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLPT 801</td>
<td>Biology of Plant Pathogens</td>
<td>AGRO 801, HORT 801</td>
<td>PLPT 369 or equivalent</td>
<td>Molecular and cellular approach to the study of plant pathological principles.</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>LEC</td>
<td>PLPT 866, PLPT 965, AGRO 965, HORT 965</td>
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<tr>
<td>PLPT 802</td>
<td>Ecology and Management of Plant Pathogens</td>
<td>AGRO 802, HORT 802</td>
<td>PLPT 369 or equivalent; an introduction to biochemistry course</td>
<td>Principles of plant disease epidemiology and disease control through cultural, biological, chemical and host plant resistance strategies.</td>
<td>3</td>
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<td>3</td>
<td>LEC</td>
<td>PLPT 866, PLPT 965, AGRO 965, HORT 965</td>
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<tr>
<td>PLPT 813</td>
<td>Biological Control of Pests</td>
<td>ENTO 813</td>
<td>12 hrs biological sciences and/or agricultural sciences</td>
<td>Principles and practices of using natural enemies and antagonists to manage the abundance of pests and reduce economic losses.</td>
<td>3</td>
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<td>LEC</td>
<td>PLPT 866, PLPT 965, AGRO 965, HORT 965</td>
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<tr>
<td>PLPT 814</td>
<td>Turfgrass Disease Management</td>
<td>AGRO 414, AGRO 814, HORT 414, HORT 814, PLPT 414, TLMT 414, TLMT 814</td>
<td>BIOS/PLPT 369 or one semester of introductory plant pathology.</td>
<td>Pathogens, epidemiology, and control of diseases specific to turfgrass.</td>
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<td>LEC</td>
<td>BIOS/PLPT 369 or one semester of introductory plant pathology.</td>
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<tr>
<td>PLPT 817</td>
<td>Plant Pathology Principles and Application</td>
<td>AGRO 817, HORT 817</td>
<td>12 hours of prior coursework in the plant sciences</td>
<td>Introduction to the biology of plant pathogenic organisms; pathogen-plant interactions; environmental influences; cultural, resistance, and chemical strategies for plant disease management.</td>
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<tr>
<td>PLPT 866</td>
<td>Phytopathogenic Nematodes</td>
<td>PLPT 801 or 802; and permission</td>
<td>Principles of nematode-induced disease of plants.</td>
<td>Principles of nematode-induced disease of plants.</td>
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<td>LEC</td>
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<tr>
<td>PLPT 867</td>
<td>Plant Associated Microbes</td>
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<td>A course in general microbiology, bacteriology, or mycology. A course in general plant pathology is highly recommended.</td>
<td>Principles of nematode-induced disease of plants.</td>
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<td>LEC</td>
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<td>PLPT 891</td>
<td>Plant Disease Field Tour</td>
<td></td>
<td>Diseases in Nebraska agricultural, urban, and wildland plant ecosystems; field diagnosis and management. One-week tours will be held in the summer prior to semester of enrollment.</td>
<td>Principles of nematode-induced disease of plants.</td>
<td>1-2</td>
<td>1</td>
<td>2</td>
<td>LEC</td>
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<tr>
<td>PLPT 892</td>
<td>Special Topics in Plant Pathology</td>
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<td>12 hrs of microbiology, plant science or related fields</td>
<td>Topics vary.</td>
<td>1-4</td>
<td>1</td>
<td>4</td>
<td>LEC</td>
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<tr>
<td>PLPT 899</td>
<td>Masters Thesis</td>
<td></td>
<td>Admission to masters degree program and permission of major advisor.</td>
<td>Research and writing towards the master's thesis</td>
<td>1-10</td>
<td>1</td>
<td>10</td>
<td>IND</td>
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<tr>
<td>PLPT 963</td>
<td>Genetics of Host-Parasite Interaction</td>
<td>AGRO 963, HORT 963</td>
<td>BIOS 820; and permission</td>
<td>Principles of nematode-induced disease of plants.</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>LEC</td>
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**Notes:**
- Topics vary.
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PLPT 965 Plant Virology
Crosslisted with: AGRO 965, HORT 965
Prerequisites: PLPT 801 or 802; and permission.
Notes: PLPT 865 is offered odd-numbered calendar years.
Description: Virus molecular biology; virosphere; virus-vector relationships; plant resistance to virus infection economic impact and control of plant diseases by viruses.
Credit Hours: 3
Max credits per semester: 3
Max credits per degree: 3
Format: LEC
Offered: SPRING

PLPT 968 Seminar in Plant Pathology
Crosslisted with: AGRO 968, HORT 968
Prerequisites: Permission.
Credit Hours: 1
Max credits per semester: 1
Max credits per degree: 1
Format: LEC
Offered: SPRING

PLPT 999 Doctoral Dissertation
Prerequisites: Admission to doctoral degree program and permission of supervisory committee chair
Description: Research and writing towards the PhD dissertation
Credit Hours: 1-24
Min credits per semester: 1
Max credits per semester: 24
Max credits per degree: 99
Format: IND