## PLANT PATHOLOGY (PLPT)

### PLPT 801 Biology of Plant Pathogens
**Crosslisted with:** AGRO 801, HORT 801  
**Prerequisites:** PLPT 369 or equivalent; an introduction to biochemistry course  
**Description:** Molecular and cellular approach to the study of plant pathological principles.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### PLPT 802 Ecology and Management of Plant Pathogens
**Crosslisted with:** AGRO 802, HORT 802  
**Prerequisites:** PLPT 369 or equivalent; an introduction to biochemistry course  
**Description:** Principles of plant disease epidemiology and disease control through cultural, biological, chemical and host plant resistance strategies.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### PLPT 813 Biological Control of Pests
**Crosslisted with:** ENTO 813  
**Prerequisites:** 12 hrs biological sciences and/or agricultural sciences  
**Description:** Principles and practices of using natural enemies and antagonists to manage the abundance of pests and reduce economic losses.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### PLPT 814 Turfgrass Disease Management
**Crosslisted with:** AGRO 414, AGRO 814, HORT 414, HORT 814, PLPT 414, TLMT 414, TLMT 814  
**Description:** Pathogens, epidemiology, and control of diseases specific to turfgrass. Access to the World Wide Web (WWW) and e-mail required.  
**Credit Hours:** 1  
**Max credits per semester:** 1  
**Max credits per degree:** 1  
**Format:** LEC

### PLPT 817 Plant Pathology Principles and Application
**Crosslisted with:** AGRO 817, HORT 817  
**Prerequisites:** 12 hours of prior coursework in the plant sciences  
**Description:** Introduction to the biology of plant pathogenic organisms; pathogen-plant interactions; environmental influences; cultural, resistance, and chemical strategies for plant disease management.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### PLPT 866 Phytopathogenic Nematodes
**Prerequisites:** PLPT *801 or *802; and permission  
**Description:** Principles of nematode-induced disease of plants.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### PLPT 867 Plant Associated Microbes
**Description:** Biology, ecology, and taxonomy of bacteria and fungi pathogenic or beneficial to plants. Microorganism isolation from plants and soil. Identification and plant inoculation.  
**Credit Hours:** 4  
**Max credits per semester:** 4  
**Max credits per degree:** 4  
**Format:** LEC

### PLPT 891 Plant Disease Field Tour
**Description:** 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.  
**Credit Hours:** 1-2  
**Min credits per semester:** 1  
**Max credits per semester:** 2  
**Max credits per degree:** 2  
**Format:** LEC

### PLPT 892 Special Topics in Plant Pathology
**Prerequisites:** 12 hrs of microbiology, plant science or related fields  
**Description:** Topics vary by semester.  
**Credit Hours:** 1-4  
**Min credits per semester:** 1  
**Max credits per semester:** 4  
**Max credits per degree:** 12  
**Format:** LEC

### PLPT 963 Genetics of Host-Parasite Interaction
**Crosslisted with:** AGRO 963, BIOS 963, HORT 963  
**Prerequisites:** BIOS 820; and permission  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### PLPT 965 Plant Virology
**Crosslisted with:** BIOS 965, AGRO 965, HORT 965  
**Prerequisites:** PLPT *801 or *802; and permission  
**Description:** Virus molecular biology; virosphere; virus-vector relationships; plant resistance to virus infection economic impact and control of plant diseases by viruses. Offered odd-numbered calendar years.  
**Credit Hours:** 3  
**Max credits per semester:** 3  
**Max credits per degree:** 3  
**Format:** LEC

### PLPT 966 Seminar in Plant Pathology
**Crosslisted with:** BIOS 968, AGRO 968, HORT 968  
**Prerequisites:** Permission  
**Credit Hours:** 1  
**Max credits per semester:** 1  
**Max credits per degree:** 1  
**Format:** LEC

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