

# PLANT PATHOLOGY (PLP)

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## PLP 299 (s) Directed Study (1-16 credits)

Credit arranged.

## PLP 404 (s) Special Topics (1-16 credits)

Credit arranged

## PLP 411 Viruses and Virus Diseases of Plants (3 credits)

Joint-listed with PLP 511

Nature of plant viruses, vector-virus relationships and virus diseases of plants. Additional assignments required for graduate credit. Typically Offered: Spring (Odd Years).

**Prereqs:** EPPN 154 and EPPN 155; or BIOL 250 and BIOL 255; and PLSC 102; or Permission. Cooperative: open to WSU degree-seeking students.

## PLP 415 Plant Pathology (3 credits)

Joint-listed with PLP 515

Biology of diseases and disorders of crop, forest, and ornamental plants, with emphasis on plant-microbe interactions and on disease cause, development, diagnosis, and control. Three 1-hour lectures. (Fall only)

**Prereqs:** EPPN 154 and EPPN 155; or BIOL 250; and PLSC 102; or Permission

## PLP 416 Plant Pathology Lab (1 credit)

Joint-listed with PLP 516

As a companion course to PLP 415/515 Plant Pathology, this laboratory course increases student knowledge about plant diseases caused by environmental factors and microorganisms. This laboratory course provides hands#on training in the identification and classification of representative plant diseases, including isolation and culturing techniques for plant pathogenic fungi, bacteria, nematodes and viruses.

**Prereqs:** EPPN 154 and EPPN 155 or BIOL 250 and 255; and PLSC 102; or Permission

**Coreqs:** PLP 415 and PLP 515

## PLP 499 (s) Directed Study (1-16 credits)

Credit arranged.

## PLP 500 Master's Research and Thesis (1-16 credits)

Credit arranged

## PLP 501 (s) Seminar (1-16 credits)

## PLP 502 (s) Directed Study (1-16 credits)

## PLP 504 (s) Special Topic (1-16 credits)

Credit arranged

## PLP 511 Viruses and Virus Diseases of Plants (3 credits)

Joint-listed with PLP 411

Nature of plant viruses, vector-virus relationships and virus diseases of plants. Additional assignments required for graduate credit. Typically Offered: Spring (Odd Years). Cooperative: open to WSU degree-seeking students.

## PLP 512 Viruses and Virus Diseases of Plants Laboratory (1 credit)

1 credit As a companion course to PLP 511 Viruses and Virus Diseases of Plants, this laboratory course increases student knowledge about plant diseases caused by viruses. This laboratory course provides hands#on training in the identification and classification of viruses that infect plants and cause plant disease. One 2-hour 20-minute lab per week. Typically Offered: Spring (Odd Years).

**Prereqs:** PLSC 102; EPPN 154 and 155 or BIOL 250 and 255; or Permission

**Coreqs:** PLP 511

## PLP 515 Plant Pathology (3 credits)

Joint-listed with PLP 415

Biology of diseases and disorders of crop, forest, and ornamental plants, with emphasis on plant-microbe interactions and on disease cause, development, diagnosis, and control. Three 1-hour lectures. (Fall only)

**Prereqs:** EPPN 154 and EPPN 155; or BIOL 250; and PLSC 102; or Permission.

## PLP 516 Plant Pathology Lab (1 credit)

Joint-listed with PLP 416

As a companion course to PLP 415/PLP 515 Plant Pathology, this laboratory course increases student knowledge about plant diseases caused by environmental factors and microorganisms. This laboratory course provides hands#on training in the identification and classification of representative plant diseases, including isolation and culturing techniques for plant pathogenic fungi, bacteria, nematodes and viruses.

**Prereqs:** EPPN 154 and EPPN 155 or BIOL 250 and 255; and PLSC 102, or Permission

**Coreqs:** PLP 415 or PLP 515

## PLP 522 Plant Bacteriology (3 credits)

The purpose of this class is to provide current information on the biology of plant associated bacteria, including plant pathogens and beneficial microbes. Topics addressed will include bacterial morphology, taxonomy, genetics, and ecology. Diagnosis, disease management, and the molecular basis of host-pathogen interactions will be presented.

**Prereqs:** PLP 415 or PLP 515; and EPPN 154 and EPPN 155 or BIOL 250 and BIOL 255; or Permission

## PLP 597 (s) Practicum (1-16 credits)

Credit arranged.

## PLP 598 (s) Internship (1-16 credits)

Credit arranged.

**Prereqs:** Permission.

## PLP 599 (s) Non-thesis Master's Research (1-16 credits)

Credit arranged. Research not directly related to a thesis or dissertation.

**Prereqs:** Permission.

## PLP 600 (s) Doctoral Research and Dissertation (1-45 credits)

Credit arranged