

# PLPA - PLANT PATHOLOGY

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PLPA Class Schedule (<https://courses.illinois.edu/schedule/DEFAULT/DEFAULT/PLPA/>)

## Courses

PLPA 200 Plants, Pathogens, and People credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/PLPA/200/>)

Plant diseases and their impact on food supplies and human history are studied in lectures, demonstrations and discussions. Issues of food production and safety, pesticide use and human health, and the environment are considered. Includes the biology of pathogens that cause plant disease. Designed for non-science and science majors.

Prerequisite: RHET 105 or equivalent.

This course satisfies the General Education Criteria for:

Advanced Composition

Nat Sci Tech - Life Sciences

PLPA 395 Undergrad Research or Thesis credit: 1 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/PLPA/395/>)

Independent research, special problems, thesis, development and/or design work under the supervision of an appropriate member of the faculty. May be repeated. Independent Study courses are limited to 12 hours total applying to a degree in ACES. Prerequisite: Cumulative GPA of 2.5 or above at the time the activity is arranged and consent of instructor.

PLPA 403 Advanced Plant Pathology credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/PLPA/403/>)

Provides students with advanced knowledge of major plant pathogens, including fungi, oomycetes, bacteria, nematodes and viruses as well as major diseases they cause in plants. Lecture topics include taxonomy, etiology, pathogenesis, molecular biology, epidemiology and management. The underlying mechanisms associated with pathogenicity and the complex nature of plants and their pathogens will be presented.

3 undergraduate hours. 3 graduate hours. Prerequisite: CPSC 212 or consent of instructors, or graduate student status. Junior standing required.

PLPA 405 Plant Disease Diagnosis & Mgmt credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/PLPA/405/>)

Field and laboratory techniques in plant disease diagnosis and appraisal; identification of diseases of small grains, turf, corn, soybeans, forage crops, vegetables, fruit, forest and shade trees, and ornamentals, both on field trips and in laboratory exercises. Includes fundamentals of disease management. 3 undergraduate hours. 3 graduate hours. Prerequisite: CPSC 212 or equivalent.

PLPA 509 Mol Bio of Microbe-Plant Inter credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/PLPA/509/>)

Detailed analysis of the microbe-plant interaction at the molecular level. Covers commensal, symbiotic, and pathogenic interactions from viewpoint of both plant and microbe. Emphasizes microbial and plant genes involved in the interactions, their organization, regulation of expression and the nature and function of the encoded gene products. Same as MCB 511. 3 graduate hours. No professional credit. Offered in alternate years. Prerequisite: MCB 421 or CPSC 212 or equivalents.