

# Certificate in Plant Disease

This is one of two 15-credit, post-baccalaureate graduate certificates that provide training to students and working professionals. This certificate and the Certificate in Crop Breeding and Biotechnology may be paired for the pre-existing professional master's in plant science.

## CERTIFICATE IN PLANT DISEASE

### Requirements

15 credits

Students cannot use more than 4 credits of 400-level courses on a Certificate Program of Study.

### Prerequisites

- BS in Crop Science, Plant Sciences, Plant Biotechnology, or related degree or:
- Junior status and coursework including coursework in:

An introductory plant pathology course

Botany or an introductory plant biology course

A soil science course

A statistics course

### Course Work:

- **Pesticides (3 credits)**
  - LRES 507 Environmental Risk Assessment (environmental toxicology)
- **Plant Disease (Take 2; 6 credits)**
  - AGSC 450/5XX Plant Disease Control- spring odd years, 3 credits, prerequisite BIOM 421
  - PSPP 565 / AGSC 455 Plant-Pathogen Interaction – spring even years, 3 credits, prerequisite BIOB 160
  - PSPP 524 Advanced Plant Pathology- fall odd years, 3 credits
- **Mycology (3 credits)**
  - BIOM 523 / BIOM 423 Mycology, fall even years, 3 credits, prerequisite introductory biology course
- **Elective course (3 credits):**
  - PSPP 642 Structural and Functional Genomics, fall odd years
  - BIOM 441 Eukaryotic Pathogens (4 credits, lab), spring, prerequisite BIOM 360; recommend BCH 380
  - BIOM 435 / MB 530 Virology (3 credits) fall, prerequisite BIOM 360 or BIOB 375 or BIOH 320 or BCH 380 or BCH 442 or BCH 444R
  - BIOM 541 Microbial Genetics (3 credits) spring, prerequisite BIOM 360; recommend BCH 380
  - PSPP 516 Research Design and Analysis (3 credits) fall, prerequisite STAT 401

### Professional Development:

- PSPP 594 Seminar (1 credit)
- PSPP 575 Professional Paper (2 credits)