

# PLANT PATHOLOGY, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

## Program Requirements

Requirement	Credits
Requirements for the Minor	22

### Requirements for the Minor

The minor in Plant Pathology requires 22 credits in approved courses in addition to the major requirements of the student's choice.

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (<https://senate.psu.edu/students/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/>). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student's major(s).

Code	Title	Credits
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
BIOL 110	Biology: Basic Concepts and Biodiversity	4
PPEM 496	Independent Studies <sup>1</sup>	3
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
PPEM 300	Horticultural Crop Diseases <sup>2</sup>	3
or PPEM 405	Microbe-Plant Interactions: Plant Disease and Biological Control	
Select a minimum of 12 credits of the following:		12
AGECO 121	Plant Stress: It's Not Easy Being Green	
AGECO/ENT 457	Principles of Integrated Pest Management	
PPEM 120	The Fungal Jungle: A Mycological Safari From Truffles to Slime Molds	
PPEM 300	Horticultural Crop Diseases	
PPEM 318	Diseases of Forest and Shade Trees	
PPEM 405	Microbe-Plant Interactions: Plant Disease and Biological Control	
PPEM 412	Turfgrass Disease Management	
PPEM 416	Plant Virology: Molecules to Populations	
PPEM 417W	Mechanisms of Bacterial Pathogenesis in Plants	
PPEM 425	Biology of Fungi	
PPEM 430	Air Pollution Impacts to Terrestrial Ecosystems	
PPEM 454	Virus Ecology	
PPEM 496	Independent Studies <sup>1</sup>	
PPEM 497	Special Topics	
Course(s) from the departmental list for the Plant Pathology Minor with the approval of the minor adviser		

credits may be applied to the Minor requirements as Additional Courses.

<sup>2</sup> Students may select one of these two courses for the second list of Additional Courses, but the same course cannot be counted toward both lists.

<sup>1</sup> Students must select, in consultation with the Plant Pathology Minor adviser, at least 3 credits of PPEM 496 (Independent Study) working with one or more faculty in the department of Plant Pathology and Environmental Microbiology. An additional three Independent Study