

PLANT PATHOLOGY (PHD)

Graduate School

Program Website (<https://cals.cornell.edu/school-integrative-plant-science/degrees-programs/msphd-graduate-fields/msphd-field-plant-pathology-plant-microbe-biology/>)

CIP: 26.0305 | HEGIS: 0404.00 | NYSED: 13105

Graduate Field

Plant Pathology and Plant-Microbe Biology (<https://catalog.cornell.edu/graduate-school/plant-pathology-plant-microbe-biology/>)

Program Description

For a more complete description of the Field of Plant Pathology and Plant-Microbe Biology, please visit the website (<https://cals.cornell.edu/school-integrative-plant-science/degrees-programs/msphd-graduate-fields/msphd-field-plant-pathology-plant-microbe-biology/>).

Plant Pathology and Plant-Microbe Biology are the study of plant diseases and the biology of plant-microbe interactions at the molecular to ecosystem levels of organization. The Field of Plant Pathology and Plant-Microbe Biology at Cornell offers graduate degree programs in plant pathology and the biology, genetics and evolution of fungi and oomycetes.

In addition to Plant Pathology and Plant-Microbe Biology, Cornell University offers graduate programs that cover the full spectrum of plant sciences. Learn more about graduate studies in related fields of plant sciences on the School of Integrative Plant Science website (<https://cals.cornell.edu/school-integrative-plant-science/school-sections/>).

Concentrations

- Fungal and oomycete biology
- Plant pathology
- Plant-microbe biology

Program Information

- Instruction Mode: In Person
- Location: Ithaca, NY
- Minimum Credits for Degree: 72

Program Requirements

- Minimum Semesters for Degree: 6

Graduate School Milestones

- Responsible Conduct of Research Training: Required
- Open Researcher and Contributor ID (ORCID): Required
- Student Progress Reviews (SPR) begin: Second Year
- Examination for admission to candidacy (A Exam): Spring of third year
- Defense of Dissertation (B Exam): Spring of seventh year

Field Specific Milestones

- One semester of teaching assistantship required

Course Requirements

- Course requirements are determined by the student's Special Committee.
- Enrollment in a GRAD research course or the equivalent field specific research course is expected of all students.

University Graduation Requirements Requirements for All Students

In order to receive a Cornell degree, a student must satisfy academic and non-academic requirements.

Academic Requirements

A student's college determines degree requirements such as residency, number of credits, distribution of credits, and grade averages. It is the student's responsibility to be aware of the specific major, degree, distribution, college, and graduation requirements for completing their chosen program of study. See the individual requirements listed by each college or school or contact the college registrar's office (<https://registrar.cornell.edu/service-resources/college-registrar-directory/>) for more information.

Non-academic Requirements

Conduct Matters. Students must satisfy any outstanding sanctions, penalties or remedies imposed or agreed to under the Student Code of Conduct (Code) or Policy 6.4. Where a formal complaint under the Code or Policy 6.4 is pending, the University will withhold awarding a degree otherwise earned until the adjudication process set forth in those procedures is complete, including the satisfaction of any sanctions, penalties or remedies imposed.

Financial Obligations. Outstanding financial obligations will not impact the awarding of a degree otherwise earned or a student's ability to access their official transcript. However, the University may withhold issuing a diploma until any outstanding financial obligations owing to the University are satisfied.

Learning Outcomes

- Communicate effectively to professional and lay audiences through writing, speaking and graphics.
- Demonstrate a broad knowledge of core concepts in Plant Pathology and Plant-Microbe Biology taught in required courses and knowledge of their specialized area of study as defined by the requirements and expectations of each PPPMB program concentration and chosen minor subject areas.
- Demonstrate awareness of ethics and compliance responsibilities.
- Demonstrate teaching competence through TA, seminar and speaking experiences.
- Conduct original and publishable research in their field and concentration of study.
- Demonstrate an ability to think critically, apply scientific method, and manage resources allowing development of an independent research program
- Show evidence of development as a professional in the discipline.