Department of Plant Sciences and Plant Pathology

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Department Head
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The department offers advanced study leading to a Master of Science degree in plant sciences and plant pathology under either Plan A (thesis) or B (project or professional paper). In addition, a Ph.D. degree is offered in plant sciences with an option in either plant pathology or plant genetics. Supporting minors are also available in each of the degree fields. The department has major research strengths in the following areas: plant breeding and genetics, plant pathology, plant-microbe interactions, mycology, biocontrol, biotechnology, plant physiology, plant systematics, molecular evolution, and biochemistry.

Departmental Facilities
The department is housed in both Leon Johnson Hall and the Plant BioScience Facility located on the Bozeman campus. The research laboratories range in size from 600-720 sq. ft and are assigned to individual researchers. Individual laboratories are well equipped with the instruments and tools necessary to complete each research project. Researchers cooperate to purchase, share and maintain expensive pieces of specialized equipment or facilities such as the Electron Microscope Lab. Laboratories and offices are wired with high-speed computer lines for direct access to the Internet and the World Wide Web. The faculty has access to the Plant Growth Center Facility (a teaching and research facility available to the College of Agriculture staff). The current 60,000 square-foot facility houses 29 glasshouse rooms with 8,300 square feet of bench space – both temperature and lights are micro-computer controlled; 13 walk in growth rooms where all environmental variables are computer controlled; insect quarantine facilities with separate glasshouses and growth chambers; plant pathogen isolation facilities with 4 glasshouse rooms of 320 sq. ft; the Montana Potato Lab which is responsible for providing disease free seed stock to Montana potato producers. Other important accesses to the department are the Horticulture Farm, Post Research Farm, which is a 300 acre site dedicated to plant and soil research activities, and the MSU Herbarium located in Lewis Hall.

Admission
Graduate Record Examination General Test scores are required prior to consideration for admission. Students seeking admission to graduate status must hold a BS degree and have a record of high scholarship in areas closely related to the plant sciences. Academic record is one indicator of such potential. A traditional standard is a B (3.00 on 4.00 scale) average or better for the last two years of undergraduate or graduate work. All applications are reviewed by a departmental committee for final recommendation to The Graduate School. Successful applicants are accepted by both the department and The Graduate School.

Financial Assistance
Assistantships are awarded on a competitive basis. See the Graduate Assistantship’s sections for detailed information on appointment criteria. Assistantships are requested through the student’s home department.

Required Courses
There are no set course requirements for Plant Sciences degree programs. Course requirements are set by the student’s graduate committee, however, all students are required to register for PSPP 594 Seminar (a 1 credit seminar) once a year.

Degrees Offered
- M.S. in Plant Pathology (http://catalog.montana.edu/graduate/agriculture/plant-sciences-plant-pathology/ms-plant-pathology)
- M.S. in Plant Sciences (http://catalog.montana.edu/graduate/agriculture/plant-sciences-plant-pathology/ms-plant-sciences)
- Ph.D. in Plant Sciences (http://catalog.montana.edu/graduate/agriculture/plant-sciences-plant-pathology/phd-plant-sciences)

Admission decisions are individual, not class decisions, applicants may not be acceptable regardless of the institution from which credentials are submitted, if their preparation is not considered, in the judgment of the appropriate faculty and administration of this University, to be both adequate and appropriate. In addition, enrollment may be limited by the availability of faculty, staff and facilities. Therefore, it may not be possible to accommodate and admit all students who are otherwise qualified. Admission is permitted for only one graduate degree program at a time. Concurrent admission is not permitted for graduate degrees. Applicants should review the specific departmental requirements for admission.
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.