# PLANT BREEDING AND PLANT GENETICS, M.S.

# REQUIREMENTS

# MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/ #policiesandrequirementstext), in addition to the program requirements listed below.

# MAJOR REQUIREMENTS

### MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	No	No	No

#### Mode of Instruction Definitions

**Accelerated:** Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

**Evening/Weekend:** Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

**Face-to-Face:** Courses typically meet during weekdays on the UW-Madison Campus.

**Hybrid:** These programs combine face-to-face and online learning formats. Contact the program for more specific information.

**Online:** These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

### CURRICULAR REQUIREMENTS

#### **Requirement**: Detail

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Minimum Credit Requirement	30 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	15 credits must be graduate-level coursework. Details can be found in the Graduate School's Minimum Graduate Coursework (50%) Requirement Policy: https:// policy.wisc.edu/library/UW-1244 (https://policy.wisc.edu/ library/UW-1244/)
Overall Graduate GPA Requirement	3.00 GPA required. This program follows the Graduate School's policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/).

Other Grade Students must earn a B or above in all core curriculum Requirements coursework.

Assessments A formal M.S. thesis is required. and

Examinations

Language No language requirements. Requirements

## **REQUIRED COURSES**

The specific program of study toward a master's degree is developed by the student and their major professor. Considerable flexibility in the selection of courses is permitted to meet the needs and interests of the candidate. Of the 30 credits required, students must complete a minimum of 12 credits of coursework (not research credit) and at least 9 credits must come from the Core Curriculum, including at least 2 credits in Section A, and 2 credits in Section B or C. Students must also complete 2 credits of Plant Breeding seminar (HORT/AGRONOMY/GENETICS 957 Seminar-Plant Breeding).

#### Core Curriculum

Code		Title	Credits
A.	Plant Breeding		
	HORT/ AGRONOMY 501	Principles of Plant Breeding	
	HORT/ AGRONOMY 502	Techniques of Plant Breeding	
	HORT/ AGRONOMY 812	Selection Theory for Quantitative Traits in Plants	
В.	Genetics		
	PL PATH 517	Plant Disease Resistance	
	HORT/ GENETICS 550	Molecular Approaches for Potential Crop Improvement	
	AGRONOMY/ AN SCI/ GENETICS/ HORT 615	Genetic Mapping	
	GENETICS/ BIOCHEM 631	Plant Genetics and Development	
	GENETICS/ BIOCHEM/ BOTANY 840	Regulatory Mechanisms in Plant Development	
C.	Quantitative Gener	tics and Biometry	
	HORT/ F&W ECOL/ STAT 572	Statistical Methods for Bioscience II	
	HORT/ AGRONOMY 811	Biometrical Procedures in Plant Breeding	
	AGRONOMY 771 & AGRONOMY 77	Experimental Designs Zand Applications in ANOVA	
	AN SCI 865	Design and Analysis of Biological Studies	
D.	Additional Core Co	urses	
	BIOCHEM/ BOTANY 621	Plant Biochemistry	
	PL PATH/ BOTANY/ ENTOM 505	Plant-Microbe Interactions: Molecular and Ecological Aspects	

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GENETICS 633Population GeneticsBOTANY 500Plant Physiology