

GENETICS, MS

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirements>) and policies (<https://guide.wisc.edu/graduate/#policies>), 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	
Minimum Credit Requirement	32 credits
Minimum Residence Credit Requirement	16 credits
Minimum Graduate Coursework Requirement	16 credits must be graduate-level coursework. Refer to the Graduate School: 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. Refer to the Graduate School: Grade Point Average (GPA) Requirement policy: https://policy.wisc.edu/library/UW-1203 (https://policy.wisc.edu/library/UW-1203/).
Other Grade Requirements	n/a

Assessments and Examinations	At the end of their coursework, student's complete an oral thesis proposal defense examination (prelim) that judges their broad knowledge in genetics, their knowledge of their chosen research area, and their ability to synthesize knowledge to design rigorous research approaches. This prelim should be completed by August 31 of the student's second year in the program.
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Language Requirements	No language requirement.
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REQUIRED COURSES

Students may earn an MS in Genetics on the way to the PhD in Genetics (<https://guide.wisc.edu/graduate/genetics/genetics-phd/#text>) under certain circumstances. Contact the Genetics graduate coordinator for more information.

Code	Title	Credits
Core		
GENETICS 701	Advanced Genetics	3
GENETICS 702	Advanced Genetics II	3
GENETICS/MD GENET 707	Genetics of Development	3
GENETICS/MD GENET 708	Methods and Logic in Genetic Analysis ¹	3
GENETICS 808	From Genes to Grants: Writing Winning Research Proposals in Genetics	2

Responsible Conduct in Research

Students must complete an approved responsible conduct in research course. Common examples students use to complete this requirement are below. Students may need permission to enroll in courses and should consult with the Graduate Program Manager to ensure they enroll in the correct section of BIOCHEM 729.	1-3
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ONCOLOGY 715 Ethics in Science
or BIOCHEM 729 Advanced Topics
or BMOLCHEM/Responsible Conduct in Bioscience Research
BIOCHEM 701

Elective

Any graduate level GENETICS course including special topics courses may satisfy the elective requirement. Students wishing to take a course outside of Genetics course offerings may petition the Graduate Program Committee.	1-4
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Seminars

Students must complete four seminars and present during each seminar, including two student colloquiums.	4
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GENETICS 993 Seminar in Genetics

Additional Coursework

To meet the 32-credit requirement, students must complete additional coursework from the following.	7-12
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Research

Research (990) credits may be applied towards degree requirements. Students will register for research credits in the home department of their faculty advisor.

GENETICS 990 Research

Specialized Electives

Students may also need to complete specialized elective coursework at the discretion of their thesis committee.

Total Credits**32**

¹ GENETICS/MD GENET 707 Genetics of Development and GENETICS/MD GENET 708 Methods and Logic in Genetic Analysis are taken by the first and second years together; GENETICS/MD GENET 707 is offered one year and GENETICS/MD GENET 708 the next.