

MICROBIOLOGY, MS

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum degree requirements (<https://guide.wisc.edu/graduate/#requirementsstext>) and policies (<https://guide.wisc.edu/graduate/#policiestext>), 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 30 credits

Minimum Residence Credit Requirement 16 credits

Minimum Graduate Coursework Requirement 15 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 n/a

Language Requirements n/a

REQUIRED COURSES

Students can only earn the MS in Microbiology on the path to the PhD.

Code	Title	Credits
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Topics

Students must complete the following courses.

MICROBIO 810	Current Issues in Microbiology	1
MICROBIO 811	Advanced Problems in Microbiology	1

Electives

Students must complete at least 9 credits or three courses from the following list.

GENETICS/ BIOCHEM/ MD GENET 620	Eukaryotic Molecular Biology	
GENETICS 885	Advanced Genomic and Proteomic Analysis	
MICROBIO 526	Physiology of Microorganisms	
GENETICS/ BIOCHEM/ MICROBIO 612	Prokaryotic Molecular Biology	
MICROBIO 626	Microbial and Cellular Metabolomics	
MICROBIO 657	Bioinformatics for Microbiologists	
MICROBIO/ BMOLCHEM 668	Microbiology at Atomic Resolution	
MICROBIO 710	Microbial Symbiosis	
M M & I/PATH- BIO 528	Immunology	
M M & I 740	Mechanisms of Microbial Pathogenesis	
M M & I/PATH- BIO 750	Host-Parasite Relationships in Vertebrate Viral Disease	
M M & I 760	Quantitative Systems Biology and Disease	
ONCOLOGY/ M M & I/ PL PATH 640	General Virology–Multiplication of Viruses	
PL PATH/ BOTANY/ GENETICS/ M M & I 655	Biology and Genetics of Fungi	

Seminar

Students must enroll for the program's seminar during their first three years. Students are expected to present during their third year when enrolled in the seminar as well as in their fourth year of the program, although they may not be enrolled.

MICROBIO 731	Seminar	
or M M & I 901	Seminar	

Breadth

Students take at least 10 credits in either an external or distributed doctoral minor or a graduate/professional certificate. 10

Research

Students must complete enough credits of 990 to meet the total minimum credit requirement. Credits of 990 in subjects outside of MICROBIO and M M & I are acceptable with advisor approval. 5

M M & I 990 Research and Thesis
or MICROBIO 990 Research

Total Credits 30