

The Ohio State University  
College of Arts and Sciences

Microbiology Minor (MICRBIO-MN)

Department of Microbiology  
105 Biological Sciences Building  
484 West 12th Avenue, Columbus, OH 43210-1292  
614-292-2301; <http://microbiology.osu.edu/>

Microbiology, broadly defined as the study of organisms invisible to the naked eye, is a modern science studied in the lab, in the environment and in silico. Our students study microbiology in all its forms: from understanding how the billions of cells in our microbiomes keep us healthy; the role bacteria and phages play in the global carbon cycle and climate change; how genes and their expression are regulated at the molecular level; where antibiotic resistance comes from and how to fight it; to how pathogenic parasites, fungi, viruses and bacteria cause disease and how they can be treated. Microbiology at Ohio State epitomizes a modern interdisciplinary STEM field in every sense.

**Required prerequisite courses**

Biology 1113 or 1113H  
Chemistry 2520 or 2620 or 2920H

*\*Some courses in this minor may have prerequisites. Please consult the course bulletin before enrolling in courses.*

**Required core course**

Microbiology 4100 General Microbiology (5)

**Additional required courses (at least 2 of the following)**

Microbiology 4110 Pathogenesis and Immunobiology (3)  
Microbiology 4120 Microbial Physiology and Diversity (3)  
Microbiology 4130 Microbial Genetics (3)  
Microbiology 4140 Microbial Genetics Lab. (3)

**The required core course, two additional required courses from the list above, and elective courses must total 14 semester hours.**

- Electives may be chosen from the list above or Group 1 Microbiology Electives.

**Microbiology minor program guidelines**

The following guidelines govern this minor:

Required for graduation No

Credit hours required A minimum of 14 credit hrs. 1000 level courses shall not be counted in the minor. At least 6 credits must be upper-level courses.

Transfer and EM credit hours allowed  
A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

Overlap with the GE A student is permitted to overlap up to 6 credit hours between the GE and the minor.

Overlap with the major and additional minor(s)

- The minor must be in a different subject than the major.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

Grades required

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative point-hour ratio required for the minor.
- Course work graded Pass/Non-Pass cannot count on the minor.
- No more than 3 credit hours of coursework graded Satisfactory/Unsatisfactory may count toward the minor.

X193 credits No more than 3 credit hours.

Minor approval The minor program must be approved by the academic unit offering the minor.

Filing the minor program form The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the minor Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.

College of Arts and Sciences  
Curriculum and Assessment Services  
154 Denney Hall, 164 W. 17<sup>th</sup> Ave.  
<http://artsandsciences.osu.edu>

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