

# MICROBIOLOGY MINOR

## Department of Microbiology

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### REQUIRED Prerequisites for the Minor (26 hrs)

Biology 1113 (or honor equivalent)

Chemistry 1210,1220, 2510 and 2520 (or honor equivalents)

### REQUIRED MICROBIOLOGY MINOR Courses (14 hrs)

The Microbiology minor consists of a minimum of 14 credit hours of microbiology courses. This includes the required foundation course MICRBIOL 4100 (5 hrs), at least two additional courses from the 4100 series (6 hrs) and three hours (3 hrs) of electives. The three hours (3 hrs) of electives can be taken from the remaining courses in the 4100 series, or students can choose three hours (3 hrs) from the Microbiology Electives listed below.

#### Required Microbiology Course (5 hrs)

Course	Course Title	Prerequisites	Credit hrs
MICRBIOL 4100	General Microbiology	BIOL 1113*	5

\*or honors equivalent.

#### Choose at least two additional courses (6 hrs) from the MICRBIOL 4100 Series

Course	Course Title	Prerequisites	Credit hrs
MICRBIOL 4110	Pathogenesis and Immunobiology	MICRBIOL 4100	3
MICRBIOL 4120	Microbial Physiology and Diversity	MICRBIOL 4100	3
MICRBIOL 4130	Microbial Genetics	MICRBIOL 4100	3
MICRBIOL 4140	Molecular Microbiology Laboratory	MICRBIOL 4130	3

#### Microbiology Electives: Students not completing the 14 hr requirement with classes from the 4100 series can choose three hours (3 hrs) from the courses listed below.

Course	Course Title	Credit hrs
MICRBIOL 4591S	DNA Finger Printing Workshops in Columbus PS	1
MICRBIOL 5122	Immunology	2
MICRBIOL 5129	Cellular and Molecular Biology of Pathogenic Eukaryotes	3
MICRBIOL 5147	Eukaryotic Pathogens	3
MICRBIOL 5149	Introductory Virology	3
MICRBIOL 5150	Microbial Ecology	3
MICRBIOL 5155	Environmental Microbiology	3
MICRBIOL 5161	Bioinformatics and Molecular Microbiology	3
MICRBIOL 5170	Microbes and Evolution	3

MICRBIOL 5536	Food Microbiology Lecture	3
MICRBIOL 5800	Organelle Biology	2
MICRBIOL 4998/4998H	Undergraduate Research in Microbiology (Au, Sp, Su)	1-5 Graded S/U
MICRBIOL 4999/4999H	Undergraduate Research in Microbiology-Thesis (Au, Sp, Su)	1-5 Graded S/U

\*Permission of instructor required.

### Microbiology Electives (cont.)

Course	Course Title	Credit hrs
MICRBIOL 6020*	Microbial Physiology and Biochemistry	3
MICRBIOL 6080*	Advanced Microbial Genetics	3
MICRBIOL 7010*	Cellular and Molecular Immunology	3
MICRBIOL 7020*	Physiology Meets Pathogenesis	2
MICRBIOL 7050*	Fermentation Biotechnology	3
MICRBIOL 7060*	Advanced Topics in Molecular Microbiology	2
MICRBIOL 7724*	Molecular Pathogenesis	3

\*Permission of instructor required.

*All microbiology minor programs must be approved by the coordinating advisor*

### GENERAL INFORMATION CONCERNING MINOR PROGRAMS

1. Minor programs are not required for graduation.
2. A student may not take a major and a minor in the same subject.
3. No more than two credit hours can overlap with the major.
4. Students need not file their minor programs until they file their graduation applications, that is, two semesters before they plan to graduate.
5. Once a minor is on file in the college office, any changes must be discussed with the coordinating advisor and/or the ASC counselor.
6. No more than six credit hours required on the minor may be applied to any minor as transfer credit.
7. Although a grade of C- will be permitted in courses comprising the minor, the minimum overall CPHR of the minor shall be 2.0.
8. Courses taken on a Pass/Non-pass basis may not be applied to the minor.