

MINOR IN MICROBIOLOGY

¹ Laboratory course.

A minor in Microbiology will be of considerable benefit to students majoring in biological science, natural science, food science, biochemistry, some fields of engineering, and other science-related fields.

The program is a good complement for graduates with an interest in food microbiology, immunology, medical microbiology and diagnostics, microbial genetics, or molecular biology. Additionally, some of the required and elective coursework overlaps with the interdisciplinary programs (IDPs) in molecular biology and food safety, and can be counted for both the minor and the IDP. Minors also complete classroom laboratories (MIP 302, which is required, and one additional elective lab from the approved departmental minor elective list).

Requirements Effective Fall 2020

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Additional coursework may be required due to prerequisites.

Code	Title	Credits
Core Courses		
MIP 300	General Microbiology	3
MIP 302	General Microbiology Laboratory	2
MIP 342	Immunology	4
Selected Courses (select a minimum of 12 credits from the following lists)		
Select at least one from the following:		3-4
MIP 351	Medical Bacteriology	
MIP 420	Medical and Molecular Virology	
Select at least one from the following:		3-4
MIP 443	Microbial Physiology	
MIP 450	Microbial Genetics	
Select 4-6 credits not taken above, including one laboratory course, from the following:		4-6
MIP 250	Eukaryotic Microbiology	
MIP 260	The World of Parasites	
MIP 334	Food Microbiology	
MIP 335	Food Microbiology Laboratory ¹	
MIP 343	Immunology Laboratory ¹	
MIP 351	Medical Bacteriology	
MIP 401	Laboratory Research Methods in Microbiology ¹	
MIP 420	Medical and Molecular Virology	
MIP 425	Virology and Cell Culture Laboratory ¹	
MIP 432/ESS 432	Microbial Ecology	
MIP 443	Microbial Physiology	
MIP 450	Microbial Genetics	
MIP 462/BZ 462/ BSPM 462	Parasitology and Vector Biology ¹	
MIP 498	Research	

Program Total Credits:

21