MINOR IN MICROBIOLOGY

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.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIP 300</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>MIP 302</td>
<td>General Microbiology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>MIP 342</td>
<td>Immunology</td>
<td>4</td>
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</tbody>
</table>

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

¹ Laboratory course.