

Minor in Microbiology - Most students requesting a minor in Microbiology take classes from the following lists to reach a **minimum of 15 credits**. 9 Micro credits must fall into the elective category on your degree audit (i.e. cannot be used for anything other than your credits-to-graduate requirement.) Students must complete at least 1 course and lab from Section 1, and at least 9 credits from Section 2.

1) At least 1 Introductory Course and 1 Introductory Lab

| | | | | | |
|---------------------------|------------------|------------------------|---------------------------------|------------|----------------------|
| Micro 201 or Micro 302 | F/S/ss F/S/ss | 2 credits 3 credits | Micro 201Lab or Micro 302Lab | F/S F/S | 1 credit 1 credit |
|---------------------------|------------------|------------------------|---------------------------------|------------|----------------------|

2) At least 9 additional credits at the 300/400/500 level with no more than 3 additional lab credits

| Lecture based course work | | | Lab based course work | | |
|---|--------------|------|---|--------------|--------|
| Micro 310 – Medical Microbiology | Fall | 3 cr | Micro 310Lab – Medical Microbiology Lab | Fall | 1 cr |
| Micro 353 – Introductory Parasitology | Spring | 3 cr | | | |
| Micro 374 – Insects & Our Health | Spring | 3 cr | Micro 374Lab – Insects & Our Health Lab | Even Springs | 1 cr |
| Micro 402 – Microbial Genetics & Genomics | Even Fall | 3 cr | | | |
| Micro 407 - Microbiological Safety of Foods of Animal Origins | Spring | 3 cr | | | |
| PLP 408 – Principles of Plant Pathology | F/S | 3 cr | | | |
| Micro 408 – Virology | Fall | 3 cr | | | |
| Micro 419 – Foodborne Hazards | Even Springs | 3 cr | | | |
| Micro 420 – Food Microbiology | Fall | 3 cr | Micro 421 – Food Microbiology Lab | Spring | 3 cr |
| Micro 428 – Principles of Epidemiology | Spring | 3 cr | | | |
| Micro 430 – Prokaryotic Diversity & Ecology | Odd Springs | 3 cr | | | |
| Micro 456 – Principles of Mycology | Fall | 3 cr | | | |
| Micro 475 – Immunology | Spring | 3 cr | Micro 475Lab – Immunology Lab | Spring | 2 cr |
| Micro 477 – Bacterial Plant Interactions | Even Springs | 3 cr | | | |
| Micro 487 – Microbial Ecology | Fall | 3 cr | | | |
| Micro 517 – Gut Microbiome | Fall | 3 cr | Micro 490 A Laboratory Research | F/S | 1-3 cr |
| | | | Micro 490 C Learning Assistant | F/S | 1 cr |

See page 2 of this document for categorized electives

3) Additional lecture & lab course options

| | | | | | |
|--|------|------|---------------------------------|--------|------|
| Micro 101 – Microbial World | Fall | 3 cr | Micro 115 – Phage Discovery Lab | Fall | 2 cr |
| Micro 265 – Predicting the next Epidemic | F/S | 2 cr | Micro 116 – Phage Genome Lab | Spring | 2 cr |

Minimum of 15 credits for a minor in Microbiology

_____ Total credits

Introductory Microbiology electives:

- ___ Micro 101 (3/F) Microbial World
- ___ Micro 115 (2/F) Phage Discovery Lab
- ___ Micro 116 (2/S) Phage Genome Annotation Lab
- ___ Micro 265 (2/F/S) Predicting the Next Epidemic
- ___ Micro 302 (3/F/S) Biology of Microorganisms

The Advanced Micro electives are listed by category:

Common Clinical Electives

- ___ MICRO 353 (3/S) Intro Parasitology
- ___ MICRO 374 (3/S) Insects & Our Health
- ___ MICRO 374L (1/S/even) Insects/Health Lab
- ___ MICRO 408 (3/F) Virology
- ___ MICRO 428 (3/S) Principles of Epidemiology
- ___ MICRO 475 (3/S) Immunology
- ___ MICRO 475L (2/S) Immunology Lab
- ___ MICRO 517 (3/F) Gut Microbiome
- ___ MICRO 586 (4/F) Medical Bacteriology

Common Environmental Electives

- ___ PLP 408 (3/F) Principles of Plant Pathology
- ___ MICRO 430 (3/S/odd) Micro Diversity & Ecology
- ___ MICRO 456 (3/F) Mycology
- ___ MICRO 477 (3/S/even) Bacteria-Plant interactions
- ___ MICRO 487 (3/F) Microbial Ecology

Common Physiology/Genetics Electives

- ___ MICRO 320 (4/S) Molecular and Cellular Bacteriology
- ___ MICRO 402 (3/F/even) Microbial Genetics
- ___ MICRO 408 (3/F) Virology
- ___ MICRO 430 (3/S/odd) Micro Diversity & Ecology

Common Food Microbiology Electives

- ___ MICRO 407 (3/S) Micro Food Safety
- ___ MICRO 419X (3/S) Foodborne Hazards
- ___ MICRO 420 (3/F) Food Microbiology
- ___ MICRO 421 (3/S) Food Microbiology Lab

Maximum 490 credits applied toward Micro electives = 3

- ___ Micro 490A Research (1-3 credits)
- ___ Micro 490B Literature review (1-3 credits)
- ___ Micro 490C Lab Teaching Assistant (1 credit)

Updated 11/29/2021