

## 2024 Microbiology Minor

*The Microbiology Minor requires a minimum of 18 credits and a minimum GPA in the minor of 2.000.  
Up to 9 units maximum of the minor coursework may double dip with another major or minor.*

**Minor Core Coursework** Complete one of the following sequences:

1. MIC 205A – General Microbiology 3 OR 2. MIC 285R – Principles of Microbiology (Spring only) 4 \_\_\_  
MIC 205L – General Microbiology Lab 1 MIC 285L - Principles of Microbiology Lab (Spring only) 1

**AND** MIC 419 – Immunology (Fall only, some Summers) 4

**Minor Electives** Complete at least 10 remaining units from the following courses:

### Fall Semester

ACBS 380R- Food Safety & Microbiology (3)  
ACBS 380L- Food Safety & Microbiology (1)  
ACBS 423- Mechanisms of Disease (3)  
ACBS 438- Ecology of Infectious Disease (3)  
BIOC 385- Metabolic Biochemistry (3)  
ECOL 320- Genetics (4)  
ECOL 326- Genomics (3)  
ECOL 409- Evolution of Infectious Diseases (3)  
ENVS 408- Scientific Writing for Env., Ag., & Life Sciences (3)  
ENVS 425- Environmental Microbiology (3)  
ENVS 426- Environmental Microbiology Lab (2)  
MCB 410- Cell Biology (3)  
MCB 422- Problem Solving with Genetic Tools (3)  
MIC 329A- Microbial Diversity (3)  
MIC 340- Introduction to Biotechnology (3)  
MIC 420- Pathogenic Bacteriology (3)  
MIC 450- Veterinary Microbiology (3)  
MIC 452- Antibiotics: A Biological Perspective (3)  
PLP 305- Introductory Plant Pathology (3)  
PLP 427R- General Mycology (3)  
PLS 434- Industrial Biotechnology (3)

### Summer Semester

ACBS 313- Principles of Animal Genetic Systems (3)  
ACBS 380R- Food Safety and Microbiology (3)  
ACBS 405- Principles of Livestock Health Management (3)  
BIOC 385- Metabolic Biochemistry (3)  
ECOL 320- Genetics (4)  
ECOL 326- Genomics (3)  
ECOL 409- Evolution of Infectious Diseases (3)  
ENVS 408- Scientific Writing for Env., Ag. & Life Sciences (3)  
ENVS 425- Environmental Microbiology (3)  
MCB 410- Cell Biology (3)  
MCB 422- Problem Solving with Genetic Tools (3)  
MIC 329A- Microbial Diversity (3)

### Spring Semester

ACBS 313- Principles of Animal Genetic Systems (3)  
ACBS 317- One Health: A Microbial Perspective (3)  
ACBS 377- Food Toxicology (3)  
ACBS 403R- Biology of Animal Parasites (3)  
ACBS 405- Principles of Livestock Health Management (3)  
ACBS 409- Environmental Physiology of Domestic Animals (3)  
ACBS 443- Research Animal Methods (3)  
BIOC 385- Metabolic Biochemistry (3)  
ECOL 320- Genetics (4)  
ECOL 409- Evolution of Infectious Diseases (3)  
ENVS 408- Scientific Writing for Env., Ag., & Life Sciences (3)  
ENVS 425- Environmental Microbiology (3)  
ENVS 426- Environmental Microbiology Lab (2)  
ENVS 475- Freshwater and Marine Algae (4)  
MIC 340- Introduction to Biotechnology (3)  
MIC 430- Food Microbiology and Biotechnology (3)  
MIC 430L- Food Microbiology and Biotechnology Lab (2)  
MIC 433- Medical and Molecular Virology (4)  
MCB 411- Molecular Biology (3)  
MCB 473- Recombinant DNA Methods and Applications (4)  
PLS 333- General Virology (3)

**The following electives have not been offered recently, but are approved if available on the Schedule of Classes:**

ACBS 310- Living in Symbiosis (3)  
ACBS 395A- An ACBS Guide (1) - *This course has been offered recently, but priority enrollment is limited to ANS/VSC majors.*  
ACBS 403L- Parasitology Laboratory (1)  
ACBS 466- Principles of Disease (3)  
ACBS 467- Computation in Biomedicine (3)  
ECOL 320H- Genetics, honors section (3)  
MIC 320- Microbiomes (3)  
PLP 427L- General Mycology Lab (2)  
PLS 456- Topics in Biotechnology (3)

Notes

Revised 4/2024