

## Microbiology

### Group I Requirements

- ❑ **BIOL 411**, Principles of Biology I
- ❑ **BIOL 412**, Principles of Biology II
- ❑ **BCHM 658/659**, General Biochemistry/Lab
- OR**
- BCHM 751/752**, Principles of Biochemistry, with BCHM 755 - lab
- ❑ **CHEM 403**, General Chemistry I
- ❑ **CHEM 404**, General Chemistry II
- ❑ **CHEM 651/653**, Organic Chemistry/Lab
- OR**
- CHEM 545/546**, Organic Chemistry/Lab
- ❑ **PHYS 401**, Introduction to Physics I
- ❑ **PHYS 402**, Introduction to Physics II
- ❑ **MATH 424B**, Calculus for Life Science
- and*
- BIOL 528**, Applied Biostatistics I (or equivalent statistics)
- OR**
- MATH 425**, Calculus I
- and*
- MATH 426**, Calculus II
- ❑ **BIOL 604**, Principles of Genetics
- ❑ **MICR 503**, General Microbiology
- ❑ **MICR 602**, Pathogenic Microbiology
- ❑ **MICR 704**, Genetics of Prokaryotic Microbes
- ❑ **MICR 717**, Microbial Physiology
- ❑ A microbial ecology course (this requirement may be fulfilled by taking either **MICR 707**, **MICR 713**, or **MICR 719**)

### Group II Requirements

(One microbiology course from each of three categories: general, medical, and ecological.)

- ❑ **General**
  - MICR 603**, Bacteriology of Food (UNHM)
  - MICR 710**, Electron Microscopy and Microbial Cytology (and 712, Laboratory)
  - MICR 711**, Genomics and Bioinformatics
  - MICR 718**, Ethics and Issues in Microbiology
  - MICR 751**, Cell Culture
- ❑ **Medical**
  - MICR 702**, Infectious Disease and Health
  - MICR 706**, Virology (and 708, Laboratory)
  - MICR 714**, Water Pollution Microbiology
  - MICR 705**, Immunology
- ❑ **Ecological**
  - MICR 707**, Marine Microbiology
  - MICR 713**, Microbes and the Environment
  - MICR 719**, Prokaryote Biodiversity
  - MICR 766**, Plant-Microbe Interactions
  - NR 706**, Soil Microbiology

Electives (These cannot be taken to fulfill the microbiology major requirement.)

- MICR 504**, Brewing and Industrial Microbiology Applications (UNHM)
- MICR 600**, Field Experience
- MLS 720**, Clinical Mycology-Parasitology
- PBIO 721**, The Microscopic Algae
- PBIO 752**, Mycology
- MICR 790**, Laboratory Teaching Experiences
- MICR 795**, Problems in Microbiology