

## Michigan Technological University

### Minor in Biological Sciences

Program Code SBLM, Academic Year 2026-2027

Department of Biological Sciences

Minimum Credits Required: 18

#### Required Courses: 12 to 13 credits

- BL 1400 Principles of Biology (3) and BL 1410 Principles of Biology Laboratory (1) *Prereqs: none*
- BL 2200 Genetics (3) *Prereqs: BE2400 or (BL1200 and BL1210) or (BL1400 and BL1410)*  
**and** BL 2210 Genetics Laboratory (1) *Prereqs: BL2200(C)*
- BL 2160 Botany (4) *Prereqs: none*
  - **or** BL 2170 Zoology (4) *Prereqs: none*
  - **or** BL 3210 General Microbiology (4) *Prereqs: (BL1200 and BL1210) or (BL1400 and BL1410)*

#### Elective Courses: 6 credits

- BL 3001 Emergency Medical Technician 1 (5) *Permission of instructor required*
- BL 3002 Emergency Medical Technician 2 (5) *Prereqs: BL3001*
- BL 3012 Essential Cell Biology (3) *Prereqs: BL1020 or BL1040 or (BL1200 and BL1210) or (BL1400 and BL1410)*
- BL 3020 Biochemistry I (3) *Prereqs: (BL1020 or BL1040 or BE2400) or (BL1200 and BL1210) or (BL1400 and BL1410) and (CH2410 or CH2420)*
- BL 3025 Biochemistry for Health Professionals (3) *Prereqs: (BL1200 or BL1400) and (CH2410 or CH2430)*
- BL 3034 Evolutionary Biology (3) *Prereqs: BL1100 or BL1400*
- BL 3044 Advanced Human Physiology (3) *Prereqs: BL2020*
- BL 3220 Medical Mycology and Virology (3) *Junior or higher*
- BL 3230 Medical Bacteriology (4) *Prereqs: BL3210*
- BL 3300 Introduction to Genomics (3) *Prereqs: BL2200 or FW3320*
- BL 3490 Principles of Ecology and Evolution (4) *Prereqs: BL1010 or BL1040 or (BL1100 and BL1110) or (BL1400 and BL1410)*
- BL 3640 General Immunology (3) *Prereqs: BL1020 or BL1040 or BL2020 or BE2400 or (BL1200 and BL1210) or (BL1400 and BL1410)*
- BL 4000 Research in Biology (1-9) *Permission of instructor required*
- BL 4020 Biochemistry II (3) *Prereqs: BL3020*
- BL 4030 Molecular Biology (3) *Prereqs: BL3020 or BL3025 or CH4710*
- BL 4038 Epigenetics (3) *Prereqs: BL3300 or BL4030*
- BL 4044 Human Pathophysiology (3) *Prereqs: BL2010 and BL2020*
- BL 4070 Environmental Toxicology (3) *Prereqs: BL1020 or (BL1200 and BL1210) or BL1040 or (BL1400 and BL1410) and CH1150 and CH1160*
- BL 4090 Tropical Island Biology (2) *Permission of instructor required*
- BL 4120 Environmental Remediation (3) *Prereqs: BL1020 or BL1040 or (BL1200 and BL1210) or (BL1400 and BL1410)*
- BL 4142 Biological Electron Microscopy (3) *Sophomore or higher*
- BL 4145 Plant-Microbe Interactions (3) *Prereqs: BL2200*
- BL 4153 Applied Genome Editing (3) *Prereqs: BL2200 or FW3230*
- BL 4200 Microbial Physiology (3) *Prereqs: BL3210 or BL3310*
- BL 4300 Applied Genomics (3) *Prereqs: BL3300*
- BL 4310 Applied Eukaryotic Genomics (3) *Prereqs: BL2200 and BL2210*
- BL 4370 Advanced Cell Biology (3) *Prereqs: BL2200 and CH2420*
- BL 4380 Cardiopulmonary Physiology (3) *Prereqs: BL2020*
- BL 4400 Microbial Ecology (3) *Prereqs: BL3210 or BL3310 or BL3490*
- BL 4410 Developmental Biology (3) *Prereqs: BL2200 and (BL3012(C) or BL4370(C))*
- BL 4421 Lake Superior Exploration (3) *Junior or higher*
- BL 4440 Fish Biology (4) *Prereqs: BL1020 or BL1040 or (BL1200 and BL1210) or (BL1400 and BL1410)*
- BL 4447 Stream Ecology (3) *Prereqs: BL1010 or BL1040 or (BL1100 and BL1110) or (BL1400 and BL1410)*
- BL 4450 Limnology (3) *Junior or higher*
- BL 4465 Biological Oceanography (3) *Prereqs: BL1010 or (BL1100 and BL1110) or BL1040 or (BL1400 and BL1410) or BL3080*
- BL 4752 Cancer Biology (3) *Prereqs: BL3012 or BL4370 or BE2400*