

Michigan Technological University

Interdisciplinary Minor in Ecology

Program Code IMEC, Academic Year 2024-25

Department of Biological Sciences, and College of Forest Resources and Environmental Science

Total Credits Required: 18

Required Course: Select one course from Group A and Group B

Group A

- BL 1100 General Biology I (3) *and* BL 1110 General Biology I Lab (1) *Prereqs: none*
- BL 1400 Principles of Biology (3) *and* BL 1410 Principles of Biology Lab (1) *Prereqs: none*
- BL 2160 Botany (4) *Prereqs: none*
- BL 2170 Zoology (4) *Prereqs: none*

Group B

- BL 3490 Principles of Ecology and Evolution (4) *Prereqs: BL1010 or BL1040 or (BL1100 and BL1110) or (BL1400 and BL1410)*
- FW 3020 Forest Ecology (3) *Coreq: FW2051*

Elective Courses: Must select at least 10 credits not already taken

- BL 3490 Principles of Ecology & Evolution (4) *Prereqs: (BL1100 and BL1110) or (BL1400 and BL1410)*
- BL 4034 Advanced Evolutionary Ecology (3) *Prereqs: BL3490*
- BL 4036 Plant-Species Interactions (3) *Prereqs: (BL3400 or BL3490 or BL3190)*
- 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) *Prereqs: None*
- BL 4400 Microbial Ecology (3) *Prereqs: BL3210 or BL3310 or BL3490*
- BL 4421 Lake Superior Exploration (3) *Prereqs: None*
- BL 4447 Stream Ecology (3) *Prereqs: (BL1100 and BL1110) or (BL1400 and BL1410) or BL3400 or BL3490*
- BL 4450 Limnology (3) *Prereqs: (CH1122 or (CH1160 and CH1161))*
- BL 4461 Ecosystems Ecology (3) *Prereqs: BL 3490*
- BL 4465 Biological Oceanography (3) *Prereqs: BL1010 or (BL1100 and BL1110) or BL1040 or (BL1400 or BL1410) or BL3080*
- FW 3020 Forest Ecology (3) *Coreq: FW2051*
- FW 3330 Soil Science (4) *Prereqs: (CH1112(c) or (CH1150(c) and CH1151(c))*
- FW 3540 Introduction to GIS for Natural Resource Management (4) *Prereqs: (MA3710(c) or MA2720(c) or MA2710(c))*
- FW 4220 Wetlands (4) *Prereqs: None*
- FW 4260 Population Ecology (3) *Prereqs: BL 1100 or BL 1400 or BL 2160 or BL 3080*
- FW 4300 Introduction to Wildland Fire (3) *Prereqs: (FW3020 and (FW3010 or FW3012))*
- FW 4370 Forest and Landscape Hydrology (3) *Prereqs: None*
- FW 4380 Landscape Ecology (3) *Prereqs: MA2720 or CEE3502*
- FW 4610 Wildlife Ecology (3) *Prereqs: (BL3490(c) or FW3020(c))*

Remaining Elective: Choose from the previous elective course list or from the following:

- BL 4440 Fish Biology (4) *Prereqs: (BL1200 and BL1210) or (BL1400 and BL1410)*
- FW 2010 Vegetation of North America (4) *Prereqs: None*
- FW 3610 Ornithology (4) *Prereqs: (BL1200 and BL1210) or (BL1400 and BL1410)*
- FW 3620 Field Ornithology (1) *Prereqs: None*
- FW 4240 Mammalogy (4) *Prereqs: (BL1200 and BL1210) or (BL1400 and BL1410)*
- FW 4620 Herpetology (3) *Prereqs: (BL1100 and BL1110) or (BL1400 and BL1410)*

Recommended cognate courses that are not part of the minor include CH1150, CH1151, CH1160 and CH1161.