Michigan Technological University
Minor in Ecological Engineering
Program Code EECM, Academic Year 2026-2027
Department of Civil, Environmental, and Geospatial Engineering
Minimum Credits Required: 18

Required Courses: 11 credits

- BL 1400 Principles of Biology (3) *Prereqs: none*
- CEE 3620 Water Resources Engineering (4) *Prereqs: (ENG3200 or CEE3200) and (MA3710(C) or MA2710(C) or MA2720(C) or CEE3502(C) or CEE3710(C))*
- FW 4220 Wetlands (4) *Prereqs: BL1100 or BL1400 or BL2160 or BL3080*

Electives Group A: choose 3 to 4 credits

- BL 4120 Environmental Remediation (3) *Prereqs: BL1020 or BL1040 or (BL1200 and BL1210) or (BL1400 and BL1410)*
- CEE 4505 Surface Water Quality Engineering (3) *Prereqs: CEE3501 or CEE3503*
- CEE 4518 Aquatic Biogeochemistry (3) *Prereqs: CEE4501(C) and CEE4505(C)*
- CEE 4521 Bioremediation Engineering (3) *Prereqs: (CEE3501 or CEE3503) and BL3310*
- CEE 4620 River and Floodplain Hydraulics (3) *Prereqs: CEE3620*
- CEE 4640 Stormwater Management and Low Impact Development (3) *Prereqs: CEE3620*
- CEE 4665 Stream Restoration (3) *Prereqs: CEE3620*
- CEE 4993 Engineering with Developing Communities (3) *Prereqs: BE3350 or CM3110 or ENG3200 or ME3201 or CEE3200*
- ENG 4515 Introduction to Sustainability and Resilience (3) *Prereqs: none*
- FW 2051 Field Techniques (2) *Prereqs: none*
- FW 3540 An Introduction to Geographic Information Systems for Natural Resource Management (4) *Prereqs: MA2710(C) or MA2720(C) or MA3710(C) or ENVE3502 or CEE3502(C)*
- GE 2100 Environmental Geology (3) *Prereqs: none*
- GE 3850 Geohydrology (3) *Prereqs: GE2000 and MA2160*

Electives Group B: choose 3 to 4 credits

- BL 2001 Valuing the Great Lakes (3) *Prereqs: none*
- BL 3490 Principles of Ecology and Evolution (4) *Prereqs: BL1010 or BL1040 or (BL1100 and BL1110) or (BL1400 and BL1410)*
- BL 4070 Environmental Toxicology (3) *Prereqs: BL1020 or (BL1200 and BL1210) or BL1040 or (BL1400 and BL1410) and CH1150 and CH1160*
- BL 4447 Stream Ecology (3) *Prereqs: BL1010 or (BL1100 and BL1110) or BL1040 or (BL1400 and BL1410) or BL3400*
- BL 4450 Limnology (3) *Prereqs: none*
- BL 4461 Ecosystem Ecology (3) *(On-demand) Prereqs: BL3490 and CH1122 or (CH1160 and CH1161)*
- FW 3020 Forest Ecology (3) *Prereqs: FW2051(C)*
- FW 4370 Forest and Landscape Hydrology (3) *Prereqs: none*
- FW 4380 Landscape Ecology and Planning (3) *Prereqs: MA2720 or CEE3502*