Michigan Technological University Bachelor of Science Degree Audit
Major Program: Ecological Engineering
Program Code: IECO, Academic Year 2025-2026
Minimum credits required for the degree: 124

Engineering: 45 credits

- ECEN 1000 (1)
- ECEN 3500 (3)
- ECEN 4000 (3)
- ENG 1101 (3)
- ENG 1102 (3)
- ENG 2120 (4)
- CEE 3200 (4)
- CEE 3331 (2)
- CEE 3502 (3)
- CEE 3620 (4)
- CEE 4505 (3)
- CEE 4506 (3)
- CEE 4620 (3)
- CEE 4665 (3)
- CEE 4905 (3)

Math and Science: 52-56 credits

- BL 1400 (3)
- BL 4447 (3)
- CH 1150 (3)
- CH 1151 (1)
- CH 1160 (3)
- CH 1161 (1)
- FW 3020 (3) and FW 2051 (2)
  - or BL 3490 (4)
- FW 3330 (4)
- FW 3540 (4)
- FW 4220 (4) or FW 4370 (3)
- GE 2000 (3)
- MA 1160 (4) or MA 1161 (5)
- MA 2160 (4)
- MA 3160 (4)
- MA 2320 (3) or MA 2321 (2)
- MA 3520 (2) or MA 3521 (2)
- PH 1100 (1)
- PH 2100 (3)

Other Required: 3 credits

- EC 3400 (3)

Engineering Electives: 3 credits

- CEE 4502
- CEE 4503
- CEE 4507
- CEE 4640
- CEE 4650
- CEE 4993
- CM 2110
- GE 3850

Essential Education requirements

- Students must complete three main components of Essential Education (First-Year Experience, Distribution or Minor Pathway, and Activities for Well-being and Success) with the credit distributions as shown below. A minimum of 37 credits is required to complete these requirements.
- Up to five Essential Education requirements and the Michigan Tech Seminar may be shared (double-counted) with major requirements. Work with your advisor to determine which major requirements may satisfy Essential Education requirements.
- Some courses are on more than one list, but each course can satisfy only one Essential Education requirement.
- Students may choose between an Essential Education minor or the Distribution Pathway. The list of Essential Education minors can be found here.
- Lists of courses for each requirement can be found on the Essential Education page.

First-Year Experience (16 credits)

- Michigan Tech Seminar (1)
- Math (3)
- Natural and Physical Science (3)
- STEM (3)
- Composition (3)
- Foundations of the Human World (3)

Distribution Pathway (18 credits)

- Communication Intensive (3)
- Intercultural Competency (3)
- Arts and Culture (3)
- STEM (3)
- SHAPE (3)
- Essential Education Experience (3)

Activities for Well-being and Success (3 credits)

Free Electives

- Any coursework is allowable, excluding coursework below the 1000-level.
- The number of free elective credits required is dependent on how many additional credits are required beyond Major requirements and Essential Education requirements to reach the total credits required for the degree as indicated on the audit.

Additional Graduation Requirements

- Satisfy the 2.0 departmental and cumulative Grade Point Average
- Earn 30 upper-level credits at Michigan Tech
- Apply for Graduation