

Michigan Technological University Bachelor of Science Degree Audit

Major Program: Civil Engineering

Program Code: ECE, Academic Year 2025-2026

Minimum credits required for the degree: 128

Core Requirements: 45 credits

- CEE 1000 (1)
- CEE 1001 (1)
- CEE 3101 (3)
- CEE 3200 (4)
- CEE 3202 (3) or CEE 3401 (3) or CEE 3503 (3)
- CEE 3331 (2)
- CEE 3332 (3)
- CEE 3620 (4)
- CEE 3810 (4)
- CEE 4020 (3) or CEE 4030 (3)
- EC 3400 (3)
- ENG 1101 (3)
 - or ENG 1101T (3) and
(UN 1013 or UN 2013 (1))
- ENG 1102 (3)
- ME 2110 (3)
- ME 2150 (3)
- SU 2000 (2)

Math and Science: 34-35 credits

- CH 1150 (3)
- CH 1151 (1)
- CEE 3710 (3) or MA 3710 (3)
- GE 2000 (3)
- MA 1160 (4) or MA 1161 (5)
- MA 2160 (4)
- MA 2320 (2) or MA 2321 (2)
- MA 3160 (4)
- MA 3520 (2) or MA 3521 (2)
- PH 1100 (1)
- PH 1200 (1)
- PH 2100 (3)
- PH 2200 (3)

Required Design Courses: 3-4 credits

- CEE 4213 (4)
- CEE 4223 (4)
- CEE 4401 (3)
- CEE 4407 (3)
- CEE 4620 (3)
- CEE 4665 (3)
- CEE 4820 (3)

Technical Electives: 9 credits

- Any 3000+ level CEE course
- Any 2000+ level CMG course
- Any 2000+ level SU course
- GE 3850 (3)
- GE 4800 (3)

Senior Design: 6 credits, choose one option

Option 1:

- CEE 4900 (3)
- CEE 4910 (3)

Option 2:

- CEE 4905 (3)
- Professional Elective (3)

Option 3:

- CEE 4915 (3)
- CEE 4916 (3)

Option 4:

- ENT 3950 (1)
- ENT 3960 (1)
- ENT 4950 (2)
- ENT 4960 (2)

Professional Electives: 3 credits

See your academic advisor for a list of eligible courses

Engineering Science Electives: 3 credits

- BE 2700 (3)
- CM 2110 (3)
- CM 2200 (3)
- EE 3010 (3)
- ME 2201 (3)
- ME 2700 (3)
- MSE 2100 (3)

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](#)