

Michigan Technological University Bachelor of Science Degree Audit

Major Program: Electrical Engineering, Concentration: Environmental Applications

Program Code: EEEV, Academic Year 2025-2026

Minimum credits required for the degree: 128

Core Requirements: 39 to 40 credits

- CS 1121 (3)
- EE 2112 (4)
- EE 2174 (4)
- EE 3120 (3)
- EE 3131 (4)
- EE 3140 (3)
- EE 3160 (3)
- EE 3174 (4)
- EE 3180 (3)
- EE 3901 (2)
- ENG 1101 (3)
 - or ENG 1101T (3) *and* (UN 1013 or UN 2013 (1))
 - or ENG 1001 (2) *and* ENG 1100 (2)
- ENG 1102 (3)

Math and Science: 28 credits

- CH 1150 (3)
- CH 1151 (1)
- MA 1121 (4) or MA 1160 (4) or MA 1161 (5)
- MA 2160 (4)
- MA 2321 (2) or MA 2320 (2)
- MA 3160 (4)
- MA 3521 (2) or MA 3520 (2)
- PH 1100 (1)
- PH 1200 (1)
- PH 2100 (3)
- PH 2200 (3)

EE Technical Electives: 12 credits

Any EE course except CS1000, EE3010, EE4000, EE4805, EE4901, EE4910, and those in major requirements. No more than zero credits of EE2000 – EE2999 are allowed. Department approval is required for EEnXXe.

Choose one Option: 4 to 6 credits

Option 1: Senior Design Path: 4 credits

- EE 4901 (2) and EE 4910 (2), *or*
- ME 4901 (2) and ME 4911 (2)

Option 2: Enterprise Design Path: 6 credits

- ENT3950, ENT3960, ENT4950 and ENT4960, *or*
- ENT 3960, ENT4950, ENT4960 and ENT Module from the following: ENT2961, ENT2962, ENT3959, ENT3963, ENT3966, ENT3967, ENT3971, ENT4951

Concentration Requirements: 18 credits

- CEE 3502 (3)
- CEE 3503 (3)

Remote Sensing Area Elective

Choose one set of courses:

- GE 4250 (3) and EE 4252 (4)
- EE 2190 (3) and EE 3190 (3)

Environmental Quality Engineering Area Elective

Choose two courses:

- CEE 4502 (3)
- CEE 4503 (3)
- CEE 4504 (3)
- CEE 4505 (3)
- CEE 4507 (3)
- CEE 4511 (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](#)