

## Michigan Technological University Bachelor of Science Degree Audit

### Major Program: Electrical Engineering, Concentration: Electric Power Engineering

Program Code: EEEW, Academic Year 2026-2027

Minimum credits required for the degree: 128

#### Core Requirements: 36 to 37 credits

- CS 1121 (3)
- EE 2112 (4)
- EE 2174 (4)
- 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 to 29 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)

#### SELECT Approved Elective: 3 to 4 credits

BE2400, BL2010, CEE3501, CEE3502, CS1142, EC3400, EE3373, ENG2120, ENG3200, ENG4515, ME2110, ME2201, ME2700, MSE2100, MSE4292, PH2300, PH2400, PH3300

#### EE Technical Electives: 12 credits

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

#### Choose One Option: 7 credits

##### Option 1: Senior Design Path

- EE 4901 (2) and EE 4910 (2)
  - or ME 4901 (2) and ME 4911 (2)
- Approved Electives: Choose at least 3 credits from the List of Approved Electives on page 2.

##### Option 2: Enterprise Design Path

- ENT3950, ENT3960, ENT4950 and ENT4960
  - or ENT 3960, ENT4950, ENT4960 and ENT Module from the following: ENT2961, ENT2962, ENT3959, ENT3963, ENT3966, ENT3967, ENT3971, ENT4951
- Approved Elective: Choose at least one credit from the List of Approved Electives on page 2.

#### Concentration Requirements: 16 credits

##### Required concentration courses: 10 credits

- EE 3120 (3)
- EE 4221 (3)
- EE 4222 (3)
- EE 4226 (1)

##### Electric Power Engineering Electives: 6 credits

- EE 4219 (3)
- EE 4220 (1)
- EE 4227 (3)
- EE 4228 (1)
- EE 4262 (3)
- EE 4263 (3)
- EE 5200 (3)
- EE 5223 (3)
- EE 5224 (1)
- EE 5230 (3)
- EE 5240 (3)
- EE 5250 (3)
- EE 5260 (3)
- EE 5290 (1)

## List of Approved Electives

BL1100-BL1999, BL2000-BL2999, BL3000-BL3999, BL4000-BL4999, CH1152-CH1999, CH2000-CH2999, CH3000-CH3999, CH4000-CH4999, CM1000-CM1999, CM2000-CM2999, CM3000-CM3999, CM4000-CM4999, EC3400, EC4620, EE1112-EE1999, EE2000-EE2999, EE3000-EE3999, EE4000-EE4999, ENG2000-ENG2999, ENG3000-ENG3999, ENG4000-ENG4999, MA2600, MA2710, MA2720, MA2910-MA2999, MA3000-MA3999, MA4000-MA4999, PH1090, PH1091, PH1600, PH1610, PH2300-PH2999, PH3000-PH3999, PH4000-PH4999, BE1000-BE1999, BE2000-BE2999, BE3000, BE3999, BE4000-BE4999, CEE1000-CEE1999, CEE2000-CEE2999, CEE3000-CEE3999, CEE4000-CEE4999, CS1001-CS1999, CS2000-CS2999, CS3000-CS3999, CS4000-CS4999, ENT1000-ENT1999, ENT2000-ENT2999, ENT3000-ENT3999, ENT4000-ENT4999, GE1000-GE1999, GE2000-GE2999, GE3000-GE3999, GE4000-GE4999, ME2000-ME2999, ME3000-ME3999, ME4000-ME4999, MSE1000-MSE1999, MSE2000-MSE2999, MSE3000-MSE3999, MSE4000-MSE4999, UN4000, UN3002-UN3005.

The following courses are not allowed: BE2700, BE4770, BL1580, BL1590, BL1710, BL1800, BL3970, BL3990, CM3410, CS4431, EE3010, ENG2060, ENG2990, ENG3060, ENG3530, ENG3990, ENG4070, ENG4300, ENG4900, ENG4905, ENG4910, ENG4990, ENT3958, ENT3964, MA3720, MA3750, MA3811, MA3990, MA4810, MA4820, MA4900, MA4905, MA4945

### 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.

### Additional Graduation Requirements

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

### 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.