

Michigan Technological University Bachelor of Science Degree Audit

Major Program: Computer Engineering, Concentration: Engineering Enterprise

Program Code: ECPE, Academic Year 2025-2026

Minimum credits required for the degree: 128

Core Requirements: 53 to 55 credits

- CS 1121 (3) and CS1122 (3)
 - or CS 1131 (5)
- CS 1142 (3)
- CS 2311 (3)
- CS 2321 (3)
- CS 3411 (3)
- CS 4321 (3)
- EE 2112 (4)
- EE 2174 (4)
- EE 3131 (4)
- EE 3160 (3) or CS 3331 (3)
- EE 3172 (3)
- EE 3174 (4)
- EE 3901 (2)
- EE 4173 (3)
- EE 4272 (3)
- ENG 1101 (3)
 - or ENG 1101T (3) *and* (UN 1013 or UN 2013 (1))
 - or ENG 1001 (2) *and* ENG 1100 (2)

Math and Science: 23 credits

- MA 1121 (4) or MA 1160 (4) or MA 1161 (5)
- MA 2160 (4)
- MA 2321 (2) or MA 2320 (2)
- MA 3521 (2) or MA 3520 (2)
- MA 3710 (3)
- PH 1100 (1)
- PH 1200 (1)
- PH 2100 (3)
- PH 2200 (3)

Directed Math/Science Elective: 5 credits

2nd discipline STEM Science course: minimum 3 credits

- BL 1400 (3) or GE2000 (3), or
- CH 1150 (3) and CH1151 (1)

Choose remaining Directed Math/Science Elective: 2 cr.

MA2600, 2910, MA3XXX or higher (excluding MA3720, 3750, 3810, 3811, 3990, 4810, 4820, 4905, 4945);
BL1100 or higher (excluding BL1580, 1590, 1710, 1800, 3970, 3990); CH1500 or higher; PH1090, 1091, 1600, 1610, 2300 or higher; EE3180

Technical Electives: 8 to 9 credits

6 credits are required if CS1131 is taken in Core Requirements. (ENG1102 if taken with FY program).
Select courses from the technical electives course list below.

- CS3141, CS3311, CS3331, CS3425, CS3712
- CS4001-4999 (*excluding* CS4090, 4099, 4431, 4791, 4792)
- CS5000-5899 (*excluding* CS5090, 5091)
- EE2230, EE2231, EE3090-3999 and EE4001-4799 (*excluding* EE3171, 3901)
- EE5000-7999 (*excluding* EE5290, 5975, 5990, 5991, 5992, 6975)
- MA3202, MA3203, ME4707

Concentration Requirements: 12 credits

Enterprise Project Courses: 6 credits

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

Enterprise Teaming and Communication: 3 credits

- ENT 2961 (2)
- ENT 2962 (1)

Enterprise Instructional Modules: 3 credits

- ENT3954, ENT3956, ENT3961, ENT3963, ENT3966, ENT3967, ENT3971, ENT3982, ENT3983, ENT4951, ENT4954

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](#)