**Michigan Technological University Bachelor of Science Degree Audit**
**Major Program: Mechatronics**
Program Code: IMX, Academic Year 2025-2026
Minimum credits required for the degree: 120

## Mechatronics Core: 57 credits

- CS 1111 (3) or CS 1121 (3) or DATA 1200 (3) or MIS 2100 (3)
- SAT 1610 (3) or SAT 1700 (3) or SAT 2343 (3)
- SAT 2711 (3)
- EET 1121 (3)
- EET 1122 (1)
- EET 2121 (3)
- EET 2122 (1)
- EET 2233 (4)
- EET 3131 (3)
- EET 3144 (3)
- EET 3373 (3)
- EET 4144 (4)
- EET 4311 (3)
- EET 4999 (1)
- ENG 1101 (3)
- HF 3850 (3)
- MET 2110 (3)
- MET 2130 (4)
- MET 2150 (3)
- MET 4377 (3)

## Math and Science Requirements: 18 to 19 credits

- EET 2150 (3)
- MA 1160 (4) or MA 1161 (5)
- MA 2160 (4)
- MA 3710 (3)
- PH 1140 (3)
- PH 1100 (1) or PH 1141 (1)

## Senior Design: 6 credits

Choose one of the following project options:

### Senior Project – Option 1

- EET 4460 (3)
- EET 4480 (3)

### Enterprise – Option 2

- ENT 3950 (1)
- ENT 3960 (1)
- ENT 4950 (2) or UN 3002 (2)
- ENT 4960 (2) or UN 3003 (2)

## Technical Electives: 18 credits

CS1122, CS1142, CS2311, CS2321, CS3311, CS3411, CS3421, CS4471, CS4760, CS4811, EE2180, EE3280, EE4272/CS4461, EE4723/CS4723, EET2220, EET2411, EET3225, EET4147, EET4253, EET4373, EET4501, EET4707, EET4996, EET4997, EET4998, ENG1100, MET2153, MET2400, MET4210, MET4355, MIS4200, PSY4015, SAT1610, SAT2711, SAT3210, SAT3310, SAT3812, SAT3820, SAT4310/SAT4650, SAT4812, SAT4816

## 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