Michigan Technological University Bachelor of Science Degree Audit
Major Program: Cybersecurity, Concentration: System and Network Security
Program Code: CCY2, Academic Year 2026-2027
Minimum credits required for the degree: 120

Core Requirements: 30 to 31 credits

- CS 1000 (1) or SAT 1000 (1)
- CS 1131 (5) or (CS1121 *and* CS1122 (6))
- CS 2311 (3)
- CS 4001 (3)
- CS 4723 (3) or EE 4723 (3)
- SAT 1700 (3)
- SAT 2711 (3)
- SAT 3812 (3)
- SAT 4283 (3)
- SAT 4816 (3)

Math Requirements: 10 to 11 credits

- MA 1160 (4) or MA 1161 (5)
- MA 2320 (2)
- MA 2720 (4)

Technical Electives: 9 credits

Select from the following: HU3120, SS3640, MIS4200, CS3000 to CS5999, EE3000 to EE5999, SAT3000 to SAT5999

Concentration Requirements: 36 credits

- EET 4501 (3)
- MIS 3200 (3) or OSM 4300 (3)
- SAT 2343 (3)
- SAT 3210 (3)
- SAT 3310 (3)
- SAT 3343 (3)
- SAT 3611 (3)
- SAT 3820 (3)
- SAT 4411 (3)
- SAT 4520 (3)
- SAT 4812 (3)
- SAT 4817 (3)

Culminating Experience: 6 credits

Choose from any of the following options. All activities need preapproval from the department and include significant cybersecurity experience.

Senior Design I & II

- SAT 4480 (3)
- SAT 4880 (3)

Enterprise/Co-op (Choose 6 credits)

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

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