Michigan Technological University Bachelor of Science Degree Audit
Major Program: Computer Science, Concentration: Applications
Program Code: SCS1, Academic Year 2026-2027
Minimum credits required for the degree: 120

Core Requirements: 55 to 58 credits

- CS 1000 (1)
- CS 1131 (5) or CS 1121 and CS 1122 (6)
- CS 1142 (3)
- CS 2311(3) or MA 3210 (3)
- CS 2321 (3)
- CS 3000 (3)
- CS 3141 (3)
- CS 3311 (3)
- CS 3331 (3)
- CS 3411 (3)
- CS 3421 (3)
- CS 3425 (3)
- CS 4121 (3)
- CS 4321 (3)
- HU 3120 (3)
- MA 1160 (4) or MA 1161 (5)
- MA 2330 (3)
- MA 2720 (4) or MA 3710 (3) or MA 3720

Concentration Requirements: 22 to 25 credits

4000- level CS course: 3 credits

- CS 4XXX (3)

Applications courses: 13 to 16 credits

Applications courses must be approved by the undergraduate curriculum committee. Depending on the application area, up to 7 additional math credits may be required. See academic advisor.

Technical Electives: 6 credits

See academic advisor for a list of approved technical electives to choose from.

Additional Graduation Requirements

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

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.