Michigan Technological University Bachelor of Science Degree Audit
Major Program: Artificial Intelligence
Program Code: CAI, Academic Year 2026-2027
Total credits required for the degree: 120

Artificial Intelligence Core: 57 credits

Computer Science (33 credits)

- CS 1000 (1) or DATA 1000 (1) or SAT 1000 (1)
- CS 1121 (3) and CS 1122 (3)
  - or CS 1131 (5)
- CS 2311 (3)
- CS 2321 (3)
- CS 2800 (3)
- CS 3141 (3)
- CS/SAT 3(TBD) Cloud Computing (3)
- CS 4321 (3)
- CS 4801 (3)
- CS 4841 (3) or CS 5841 (3)
- CS 4861 (3)

Mathematics (9 credits)

- MA 1160 (4) or MA 1161 (5)
- MA 2320 (2) or MA 2321 (2)
- MA 2710 (3) or MA 2720 (4)

Data Science (6 credits)

- DATA 1200 (3)
- DATA 2201 (3)

AI and Society (6 credits)

Choose One

HF2000, HF2300, HF3850, HU3701, HU3845, HU3850, SS3580, SS3801

Choose One

CS 3000 or HU 3704

Project / Capstone (3 credits)

- CS 4991 (3) or DATA 4991 (3)

Focus Area: 15 credits

Choose 15 credits from One Track, not already taken.

Business Track

MIS4000, MIS4100, MIS4200, MIS4400, MIS 4500, OSM4300

Cybersecurity Track

CS4001, CS4471, CS4723, CS4740, SAT3812, SAT4520, SAT4817

Data Center Track

CS 1142, CS3411, CS3421, CS3425, (CS4461 or EE4272), CS4(TBD) Parallel Computing, SAT4411

Human Computer Interaction Track

CS3760, (CS4761 or CS5761), HF2000, HF2300, HF3850, (HU4628 or HF4880 or HF5880), HU3130, HU3701, HU3845, HU3850, MIS4000, SS3801, (MIS3500 or CS4760 or HU4635 or PSY4750)

Software Engineering Track

CS3712, CS4710, CS4711, CS4770,
CS4(TBD) Software Eng with Generative AI

Theoretical Track

CS3311, MA2160, MA3720, MA4330, MA4710, MA4790

Technical Electives (12 credits)

CS3311, CS3425, CS3461, DATA2600, EET4501, MA2160, MA3720, any 4000-level track course, CS4(TBD) Computer Vision, CS4(TBD) Natural Language Processing, CS4(TBD) Special Topics in AI

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