

Michigan Technological University

Minor in Artificial Intelligence

Program Code CAIM, Academic Year 2026-2027

Department of Computer Science

Minimum Credits Required: 18

List A: Computing Fundamentals I (Choose One)

- CS 1122 Introduction to Programming II (3) *Prereqs: CS1121*
- CS 1131 Accelerated Introduction to Programming (5) *Prereqs: MA1031(C) or MA1032(C) or MA1120(C) or MA1160(C) or MA1161(C) or MA1121(C)*
- DATA 1200 Data Science with Python (3) *Prereqs: MA1030(C) or MA1031(C) or MA1032(C) or MA1160(C) or MA1161(C)*

List B: Computing Fundamentals II (Choose One)

- CS 2321 Data Structures (3) *Prereqs: CS1122 or CS1131*
- DATA 2201 Foundations of Data Science (3) *Prereqs: (DATA1202 or DATA1200) and ((CS1122 or CS1131) or (CS2311 and CS2321)) and (MA2320(C) or MA2330(C) or MA2321(C))*

List C: Introduction to AI Applications and Tools (Choose One)

- CS 2800 Introduction to AI Applications (3) *Prereqs: (CS1121 and CS1122) or CS1131 or DATA1200*
- SAT 3903 AI Tools and Applications (3) *Prereqs: None*

List D: AI Ethics (Choose One)

- CS 3000 Ethical and Social Aspects of Computing (3) *Prereqs: CS3141*
- HU 3704 Ethics of Artificial Intelligence (3) *Prereqs: None*

List E: AI and Machine Learning I (Choose One)

- CS 4801 Foundations of Machine Learning (3) *Prereqs: DATA2201 and (MA2710 or MA2720 or MA3710 or MA3720)*
- CS 4861 Artificial Intelligence Theory and Applications (3) *Prereqs: CS2311 and CS2321*

List F: AI and Machine Learning II (Choose One, not already taken)

- CS 3461 Introduction to Robotics (3) *Prereqs: CS3421 or EE3172*
 - or EE 4235 Sensing and Processing in Robotic Applications (3) *Prereqs: EE2180 and (ENG1101 or ENG1101T)*
 - or EET 3144 Introduction to Industrial Robotics (3) *Prereqs: None*
- CS 4761 Human Robotic Interaction
- CS 4801 Foundations of Machine Learning (3) *Prereqs: DATA2201 and (MA2710 or MA2720 or MA3710 or MA3720)*
 - or CS 4861 Artificial Intelligence Theory and Applications (3) *Prereqs: CS2311 and CS2321*
- EE 4615 AI Engineering Applications (3) *Prereqs: EE3180*
 - or EET 4501 Applied Machine Learning (3) *Prereqs: SAT4310 or SAT4650*
 - or MIS 4000 AI and Emerging Technologies for Business (3) *Prereqs: MIS2100 or CS1122 or CS1131*
- SAT 4114 Artificial Intelligence in Healthcare (3) *Prereqs: SAT4650*
- SAT 4520 Machine Learning in Security (3) *Prereqs: SAT3812 or SAT4310*