

Michigan Technological University

Minor in Computer Science

Program Code SCSM, Academic Year 2025-2026

Department of Computer Science

Minimum Credits Required: 18

Required Courses: 12 credits

- CS 1142 Programming at HW/SW Interface (3) *Prereqs: CS1121 or CS1132*
- CS 2311 Discrete Structures (3) *Prereqs: (CS1122 or CS1131) and MA1135 or MA1160 or MA1161*
 - **or** MA 3210 Combinatorics (3) *Prereqs: (CS1122 or CS1131) and MA1135 or MA1160 or MA1161*
- CS 2321 Data Structures (3) *Prereqs: CS1122 or CS1131*
- CS 3141 Team Software Project (3) *Prereqs: (CS2311 or MA3210) and CS2321*

Elective Courses: 6 credits

- CS 3311 Formal Models of Computation (3) *Prereqs: CS2311 or MA3210*
- CS 3331 Concurrent Computing (3) *Prereqs: CS1142 or (CS1141 and CS1040) and (CS2311 or MA3210) and CS2321*
- CS 3411 Systems Programming (3) *Prereqs: CS3421*
- CS 3421 Computer Organization (3) *Prereqs: CS1141 and (CS1040 or CS1142)*
- CS 3425 Intro to Database Systems (3) *Prereqs: (CS2311 or MA3210) and CS2321*
- CS 3712 Software Quality Assurance (3) *Prereqs: CS3141*
- CS 4130 Compiler Design and Optimization (3) *Prereqs: CS4121*
- CS 4321 Intro to Algorithms (3) *Prereqs: (CS2311 or MA3210) and CS2321*
- CS 4611 Computer Graphics (3) *Prereqs: (CS1141 or CS1142) and CS2321 and MA2330*
- CS 4710 Model-Driven Software Dev. (3) *Prereqs: CS3311 and CS3141*
- CS 4711 Software Processes and Management (3) *Prereqs: CS3141*
- CS 4760 Human-Computer Interactions (3) *Prereqs: CS3141*
- CS 4811 Artificial Intelligence (3) *Prereqs: CS2321 and MA3210 and CS3311*
- CS 4821 Data Mining (3) *Prereqs: (CS3425 or MIS3100) and MA2330 or MA 2320 or MA2320 or MA2321 and MA2710 or MA2720 or MA3710*

This minor is not open to students majoring in Computer Science, Software Engineering, or Mathematics & Computer Science