

Michigan Technological University

Minor in Cybersecurity

Program Code TCYM, Academic Year 2026-2027

College of Computing

Minimum Credits Required: 18

Programming Course: Select one for 3 credits

- CS 1121 Introduction to Programming I (3) *Prereqs: MA1031(C) or MA1032(C) or MA1120(C)*
- 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)*
- MIS 2100 Introduction to Business and Analytics Programming (3) *Prereqs: none*

Required Course: 3 credits

- SAT 3812 Cyber Security I (3) *Prereqs: SAT2711 or CS2321 or MIS3200*

Required Courses: Select two or more courses for 6 to 12 credits

- CS 4001 National Cybersecurity Policy and Law (3) *Prereqs: none*
- CS 4471 Computer Security (3) *Prereqs: CS3411 or CS4411*
- CS/EE 4723 Network Security (3) *Prereqs: EE4272 or CS4461 or SAT4812*
- CS 4740 Development of Trusted Software (3) *Prereqs: CS4471*
- MA 3203 Introduction to Cryptography (3) *Prereqs: MA2320 or MA2321 or MA2330*
- SAT 4812 Cyber Security II (3) *Prereqs: SAT3812*
- SAT 4816 Digital Forensics (3) *Prereqs: SAT3812*
- SAT 4817 Security Penetration Testing and Audit (3) *Prereqs: SAT3812*

Elective Courses: Select 0 to 6 credits not already taken

- CS 3425 Introduction to Database Systems (3) *Prereqs: (CS2311 or MA3210) and CS2321*
 - or MIS 3100 Business Database Modeling and Management (3) *Prereqs: MIS2000*
 - or SAT 3210 Database Management (3) *Prereqs: SAT2711 or (CS2311 and CS2321)*
- CS 3712 Software Quality Assurance (3) *Prereqs: CS3141*
- CS 4411 Operating Systems (3) *Prereqs: CS3331 and (CS3421 or EE3172)*
- CS 4431 Computer Architecture (3) *Prereqs: CS3421 or EE3172*
- CS 4461/EE 4272 Computer Networks (3) *Prereqs: CS3411*
- CS 4710 Model-Driven Software Development (3) *Prereqs: CS3311 and CS3141(C)*
- EE 4173 Computer System Engineering and Performance (3) *Prereqs: EE3173 or EE3174*
- MIS 4200 Management of Cyber Security (3) *Prereqs: MIS2000 or MIS2100 or CS1122 or CS1131*
- SAT 2711 Linux Fundamentals (3) *Prereqs: CS1121 or CS1131 or CS1142 or MIS2100*
- SAT 3310 Scripting for Administration, Automation, and Security (3) *Prereqs: CS1121 or CS1131 or CS1142 or MIS2100*
- SAT 3820 Wireless System Administration and Security (3) *Prereqs: SAT2343*