Michigan Technological University  
Minor in Cybersecurity  
Program Code TCYM, Academic Year 2022-23  
College of Computing  
Total Credits Required: 18

Required Courses: 6 Credits

- CS 1111* Introduction to Programming in C/C++ (3)  
  Prereqs: none  
  - or CS 1142 Programming at the Hardware Software Interface (3)  
    Prereqs: CS1122 or CS1131  
  - or MIS 2100 Introduction to Business Programming (3)  
    Prereqs: none  
- SAT 3812** Cybersecurity I (3)  
  Prereqs: SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100 or EET2241

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

- CS 4471 Computer Security (3)  
  Prereqs: CS3411 or CS4411  
- EE 4723 Network Security (3)  
  Prereqs: EE4272 or CS4461 or SAT4812  
- MA 3203 Intro to Cryptography (3)  
  Prereqs: MA2320 or MA2321 or MA2330  
- SAT 4812 Cybersecurity II (3)  
  Prereqs: SAT3812

Elective Courses: Select 0 to 6 credits not already taken

- CS 3425 Introduction to Database Systems (3)  
  Prereqs: CS2311 or CS3210) and CS2321  
  - or MIS 3100 Business Database Management (3)  
  Prereqs: MIS2000  
  - or SAT 3210 Database Management (3)  
    Prereqs: SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100  
- CS 3712 Software Quality Assurance (3)  
  Prereqs: CS3141  
- CS 4411 Operating Systems (3)  
  Prereqs: CS3331 and CS3421  
- CS 4431 Computer Architecture (3)  
  Prereqs: CS3421  
- CS 4461/EE 4272 Computer Networks (3)  
  Prereqs: CS3411  
- CS 4471 Computer Security (3)  
  Prereqs: CS3411 or CS4411  
- CS 4710 Model-Driven Software Development (3)  
  Prereqs: CS3311 and CS3141  
- EE 4173 Computer System Engineering and Performance (3)  
  Prereqs: CS3421 and EE3173  
- EE 4723 Network Security (3)  
  Prereqs: EE4272 or CS4461 or SAT4812  
- EE 5365 In-Vehicle Communication Networks (3)  
  Prereqs: EE3250 or EE4250  
- MA 3203 Intro to Cryptography (3)  
  Prereqs: MA2320 or MA2321 or MA2330  
- MIS 4200 Management of Cyber Security (3)  
  Prereqs: MIS2000 or CS1111 or CS1121 or CS1131  
- SAT 2711 Linux Administration I (4)  
  Prereqs: SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100  
- SAT 3310 Scripting for Administration and Automation (4)  
  Prereqs: SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100  
- SAT 3820 Wireless System Administration (4)  
  Prereqs: SAT1200 or CS1121 or CS1131 or CS1142 or MIS2100  
- SAT 4816 Digital Forensics (3)  
  Prereqs: SAT3812

*Must be enrolled in one of the following Major(s): Computer Network & System Administration, Electrical Engineering, Audio Production & Technology; Must be enrolled in one of the following classes: Freshman, Sophomore

**Must be enrolled in one of the following Class(es): Junior, Senior