Michigan Technological University
Minor in Cybersecurity
Program Code: TCYM, Academic Year 2020-21
College of Computing
Total Credits Required: 18

Required Courses: 9 credits

Course	Credits

CS 1111 Introduction to Programming in C/C++ (3)* **or**
    CS 1142 Programming at the Hardware Software Interface (3) **or**
    MIS 2100 Introduction to Business Programming (3)	

MA 3203 Introduction to Cryptography (3)	
SAT 3812 Cybersecurity I (3)**	

Required Course: select one or more courses for 3 to 9 credits

Course	Credits
CS 4471 Computer Security (3)	
EE 4723 Network Security (3)	
SAT 4812 Cybersecurity II (3)	

Elective Courses: select 0 to 6 credits not already taken

Course	Credits

CS 3425 Introduction to Database Systems (3) **or**
    MIS 3100 Business Database Management (3) **or**
    SAT 3210 Database Management (3)	

CS 3712 Software Quality Assurance (3)	
CS 4411 Operating Systems (3)	
CS 4431 Computer Architecture (3)	
CS 4461/EE 4272 Computer Networks (3)	
CS 4471 Computer Security (3)	
CS 4710 Model-Driven Software Development (3)	
EE 4173 Computer System Engineering and Performance (3)	
EE 4723 Network Security (3)	
EE 5365 In-Vehicle Communication Networks (3)	
MIS 4200 Management of Cyber Security (3)	
SAT 2711 Linux Administration I (4)	
SAT 3310 Scripting for Administration and Automation (4)	
SAT 3820 Wireless System Administration (4)	
SAT 4816 Digital Forensics (3)	

*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 Class(es): Freshman, Sophomore
**Must be enrolled in one of the following Class(es): Junior, Senior
Courses listed in this minor have the following prerequisites (shown in parentheses). Concurrency is indicated by the letter C: CS1142 (CS1122 or CS1131), CS3425 ((CS2311 or MA3210) and CS2321), CS3712 (CS3141), CS4431 (CS3421), CS4461/EE4272 (CS3411), CS4411 (CS3331 and CS3421), CS4710 (CS3311 and CS3141(C)), EE4173 (CS3421 and EE3173), EE4723 (EE4272 or CS4461), EE5365 (EE3250), MA3203 (MA2320 or MA2321 or MA2330), MIS4200 (MIS2000 or CS1111 or CS1121 or CS1131), SAT2711 (SAT1200 or CS1111(C) or CS1121 or CS1131 or CS1142 or MIS2100), SAT3210 (SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100), SAT3310 (SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100), SAT3812 (SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100), SAT3820 (SAT1200 or CS1111 or CS1121 or CS1131 or CS1142 or MIS2100), SAT4812 (SAT3812)