

Cybersecurity

MTH 122 Start

1st Year		
Fall	Winter	Summer
MTH 122: College Algebra 3	CIS 258: Intro to Cybersecurity 3	
CIS 162: Computer Science 1 4	CIS 163: Computer Science 2 4	
WRT 120: Strategies in Writing - Stretch 1 4 or COM 201: Speech	WRT 130: Strategies in Writing - Stretch 2 4 or WRT 150: Strategies in Writing	
AI 201: Intro to AI 3	MTH 225: Discrete Structures: CS 3	
CIS 100: First-Year Computing Seminar 1		
Total 15	Total 14	
2nd Year		
Fall	Winter	Summer
CYB 241: Linux & Python for Cybersecurity 3	CIS 353: Database 3	
CIS 337: Network Systems Management 3	CIS 350: Intro to Software Engineering 3	
CIS 290: Professional Resp & Practices 3	CYB 475: Wireless Network and Security 3	
STA 215: Intro Applied Statistics 3	General Education 3	
General Education 3	General Education 3	
Total 15	Total 15	
3rd Year		
Fall	Winter	Summer
CIS 331: Data Analysis Tools & Technology 3	CJ 335: Digital Crime, Media and Culture 3	CIS 490: Internship 2-5
CJ 315: Principles of Security 3	CIS 437: Distributed Computing 4	
CIS 458: System Security 3	CYB 456: Reverse EGR and Malware Analysis 3	
CIS 358: Information Assurance 3	CYB 455: Applied Cryptography 3	
General Education 3	General Education Course 3	
Total 15	Total 16	Total 2-5
4th Year		
Fall	Winter	Summer
CIS 418: Secure Software Engineering 3	CIS 468: Cybersecurity Project 3	
CIS 430: Computer and Cyber Forensics 3	Cybersecurity Elective 3-4	
Cybersecurity Elective 3-4	General Education 3	
WRT 350: Business Communication (SWS) 3	General Education 3	
General Education 3	General Education 3	
Total 15-16	Total 15-16	

- This is a suggested curriculum guide that might not be applicable to every student
- This suggested course sequence is intended as a general guide and may need to be adjusted based on course availability
- Student must have a **minimum of 120 credits** to graduate, with **58 of the 120 credits** being from a senior level institution and **18 of the final 30 credits** completed at GVSU

General Education Requirements	
WRT 150: Strategies in Writing (grade of "C" or higher required) or WRT 120 and WRT 130 (grade of "C" or higher required in both)	Life Sciences
Physical	Philosophy and Literature
Arts	Mathematical Sciences (MTH 122)
Social Behavioral Sciences (COM 201)	Social Behavioral Sciences
Historical Analysis	U.S. Diversity
Global Perspectives	2 Supplemental Writing Skills Courses (prerequisite: WRT 130 or WRT 150)
2 Issues Courses (prerequisite: must have 55+ credits, CIS 331 and CJ 335)	

Major Notes:

- 1) CIS 331, CIS 358 and CJ 335 also fulfill Issues requirements in general education.
- 2) CIS 490 can be taken as 2-5 credits. Students will work with the Computing Internship Coordinator to determine the best amount of credits for them.
- 3) It is highly encouraged for students to "double dip" their general education requirements when possible.
 - a. Consider taking a course that fulfills the U.S. Diversity category and one Social and Behavioral Science course.
 - b. Consider taking a course that fulfills the Global Perspectives category and Historical Analysis category.
- 4) Two Supplemental Writing Skills (SWS) courses are required for graduation. WRT 350 will fulfill one SWS requirement. The remaining SWS requirement can be fulfilled via a general education category.