

Cybersecurity

MTH 110 Start

1st Year				
Fall		Winter		Summer
COM 201: Speech	3	MTH 122: College Algebra	3	
MTH 110: Algebra	4	CIS 162: Computer Science 1	4	
WRT 120: Strategies in Writing Stretch 1 or General Education	4	STA 215: Intro Applied Statistics	3	
CIS 258: Intro to Cybersecurity	3	WRT 130: Strategies in Writing Stretch 2	4	
CIS 100: First-Year Computing Seminar	1	or WRT 150: Strategies in Writing		
Total	15	Total	14	
2nd Year				
Fall		Winter		Summer
MTH 225: Discrete Structures: CS	3	CYB 241: Linux and Python for Cybersecurity	3	
CIS 337: Network Systems Management	3	CIS 350: Intro to Software Engineering	3	
CIS 163: Computer Science 2	4	CIS 353: Database	3	
AI 201: Intro to AI	3	CIS 290: Professional Responsibilities & Practices	3	
General Education	3	CYB 475: Wireless Network and Security	3	
Total	16	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	General Education 3
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	3	
Total	15	Total	16	Total 5-8
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.