Bachelor of Science (B.S.)
Cybersecurity
MTH 124 Start

1st Year

Fall		Winter		Spring/Summer
MTH 124: Precalculus	5	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 **or** *COM 201: Speech	4	MTH 225: Discrete Structures: CS	3	
		WRT 130: Strategies in Writing – Stretch 2 **or** WRT 150: Strategies in Writing	3	
General Education	3			
Total	**16**	**Total**	**13**	

2nd Year

Fall		Winter		Spring/Summer
CIS 241: System Level Program & Utilities	3	CIS 351: Computer Org and Assembly Language	3	
CIS 337: Network Systems Management	3	CIS 350: Intro to Software Engineering	3	
CIS 290: Professional Resp & Practices	3	CIS 375: 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		Spring/Summer	
CIS 331: Data Analysis Tools & Technology	3	CJ 335: Digital Crime, Media and Culture	3	CIS 490: Internship	2-5
CIS 353: Database	3	CIS 437: Distributed Computing	4	General Education	3
CIS 458: System Security	3	CIS 456: Reverse EGR and Malware Analysis	3		
CIS 358: Information Assurance	3	CIS 455: Applied Cryptography	3		
CJ 315: Principles of Security	3	General Education Course	3		
Total	**15**	**Total**	**16**	**Total**	**5-8**

4th Year

Fall		Winter		Spring/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 the **final 30 of the 120 credits** completed at GVSU

College of Computing Advising Center
B-3-241 Mackinac Hall
(616)-331-2310 or online at www.gvsu.edu/computing/advising

4/23/2025

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 124)
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.