Bachelor of Science (B.S.)
Cybersecurity
MTH 123 Start, 4 Year Plan
Secondary Admission Required

1st Year

Fall		Winter		Spring/Summer
MTH 123: Trigonometry	3	*CIS 258: Intro to Cybersecurity	3	
*CIS 162: Computer Science I	4	CIS 163: Computer Science 2	4	
WRT 150: Strategies in Writing **or** WRT 120 and WRT 130	4	*COM 201: Speech	3	
		*MTH 225: Discrete Structures: CS	3	
*STA 215: Intro Applied Statistics	3	General Education	3	
		APPLY FOR SECONDARY ADMISSION AFTER GRADES ARE POSTED IN BANNER		
Total	**14**	**Total**	**16**	

2nd Year

Fall		Winter		Spring/Summer
CIS 241: System Level Program & Utilities	3	CIS 351: Computer Org and Assembly Language	4	
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	
General Education	3	General Education	3	
General Education	3			
Total	**15**	**Total**	**13**	

3rd Year ~ Admission Required

Fall		Winter		Spring/Summer	
CIS 331: Data Analysis Tools & Technology	3	CJ 335: Digital Crime, Media and Culture	3	CIS 490: Internship	2-3
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	Cybersecurity Elective	3-4		
CJ 315: Principles of Security	3	General Education Course	3		
Total	**15**	**Total**	**16-17**	**Total**	**5-8**

4th Year ~ Admission Required

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	
CIS 455: Applied Cryptography	3	General Education	3	
WRT 350: Business Communication	3	General Education	3	
General Education	3	General Education	3	
Total	**15**	**Total**	**15-16**	

- This is a suggested curriculum guide that might not be applicable to every student
- Technical Core courses are required for secondary admission and are designated by an asterisk (*) on this guide
- 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

Padnos College of Engineering and Computing ~ Student Services Office
B-3-241 Mackinac Hall and 101 Eberhard Center
(616) 331-6025 or online at www.gvsu.edu/pcec/advising

9/22/2022

Bachelor of Science (B.S.)

Cybersecurity

MTH 123 Start, 4 Year Plan
Secondary Admission Required

√	Technical Core Requirements	√	General Education Requirements
	CIS 162		WRT 150: Strategies in Writing (grade of "C" or higher required) **or** WRT 120 and WRT 130
	CIS 258		Life Sciences
	COM 201		Physical Sciences
	MTH 225		Philosophy and Literature
	STA 215 (or STA 312)		Arts
			Mathematical Sciences (MTH 122)
			Social Behavioral Sciences
It is important to apply for secondary admission AFTER your grades for your ALL of your Technical Core Requirements are posted in Banner. You will not be able to register for any upper division course work that requires secondary admission until you've been admitted into your major. If you delay this process, it could impact your graduation timeline.			Social Behavioral Sciences
			Historical Analysis
			U.S. Diversity
			Global Perspectives
			2 Supplemental Writing Skills Courses (prerequisite: WRT 130 or 150)
			2 Issues Courses (must have 55+ credits, CIS 331 and CJ 335)

Secondary Admission Requirements:

Detailed application and admission requirements available at https://www.cis.gvsu.edu/secondary-admission/
- ✓ Overall GPA of 2.5 or above in all Grand Valley State University course work.
- ✓ Completion of each course in the Information Systems Technical Core with a grade of C (2.0) or above. Technical Core courses are designated by an asterisk (*) on this guide.
- ✓ GPA of 2.5 or above in the Cybersecurity Technical Core course work.

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 CIS 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 fulfilled via a general education category.