

# Cybersecurity

## MTH 122 Start, 4 Year Plan

Secondary Admission Required

1st Year					
Fall		Winter		Spring/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 150: Strategies in Writing or WRT 120 <u>and</u> WRT 130	4	*COM 201: Speech	3		
*STA 215: Intro Applied Statistics	3	*MTH 225: Discrete Structures: CS	3		
		<i>APPLY FOR SECONDARY ADMISSION AFTER GRADES ARE POSTED IN BANNER</i>			
<b>Total</b>	<b>14</b>		<b>Total</b>	<b>13</b>	
2nd Year ~ Admission Required					
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		
General Education	3	General Education	3		
General Education	3	General Education	3		
<b>Total</b>	<b>15</b>		<b>Total</b>	<b>15</b>	
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	2-5
CIS 353: Database	3	CIS 437: Distributed Computing	4		
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		
<b>Total</b>	<b>15</b>		<b>Total</b>	<b>16</b>	<b>Total</b>
					<b>2-5</b>
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		
Cybersecurity Elective	3-4	General Education	3		
WRT 350: Business Communication	3	General Education	3		
General Education	3	General Education	3		
<b>Total</b>	<b>15-16</b>		<b>Total</b>	<b>15-16</b>	

- 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

**Technical Core Requirements**

CIS 162	CIS 258	COM 201
MTH 225	STA 215 (or STA 312)	

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.

**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)	

**Secondary Admission Requirements:**

Detailed application and admission requirements available at <https://www.gvsu.edu/computing/secondary-admission-40.htm>

- ✓ Overall GPA of 2.5 or above in all Grand Valley State University course work.
- ✓ Completion of each course in the 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 be fulfilled via a general education category.