![Grand Valley State University — Seymour and Esther Padnos College of Engineering and Computing]

Bachelor of Science (B.S.)
Information Technology
MTH 110 Start, 4 Year Plan
Secondary Admission Required

2023 – 2024 Catalog Year

1st Year

Fall		Winter		Spring/Summer
CIS 250: Principles of Information Systems	3	*MTH 125: Survey of Calculus	3	
MTH 110: Algebra	4	*CIS 162: Computer Science 1	4	
WRT 150: Strategies in Writing **or** WRT 120 <u>and</u> WRT 130	4	*STA 215: Intro Applied Statistics	3	
		*COM 201: Speech	3	
General Education	3	General Education	3	
Total	**14**	**Total**	**16**	

2nd Year

Fall		Winter		Spring/Summer
*CIS 260: App Development in Visual Basic	4	CIS 238: Internet Media and Programming	3	
CIS 230: Hardware and Software	3	CIS 333: Database Mgt and Implementation	3	
CIS 231: Prblm Solving Using Spreadsheets	3	CIS 337: Network Systems Management	3	
MTH 225: Discrete Structures	3	CIS 290: Professional Responsibilities & Practices	3	
General Education	3	General Education	3	
APPLY FOR SECONDARY ADMISSION AFTER GRADES ARE POSTED IN BANNER				
Total	**16**	**Total**	**15**	

3rd Year ~ Admission Required

Fall		Winter		Spring/Summer	
CIS 331: Data Analysis Tools & Technology	3	CIS 358: Information Assurance	3	CIS 490: Internship	2-5
CIS 338: WAN Engineering	3	CIS 437: Distributed Computing	3	General Education	3
CIS 368: Usability Design and Evaluation	3	CIS 373: Pervasive Computing	3	General Education	3
CIS 458: System Security	3	CIS 450: IT Project Management	3		
WRT 350: Business Communication	3	CIS Elective	3		
Total	**15**	**Total**	**15**	**Total**	**8-11**

4th Year ~ Admission Required

Fall		Winter		Spring/Summer
CIS 430: Computer and Cyber Forensics	3	CIS 462: IT Project	3	
CIS Elective	3	CIS Elective	3	
CIS Elective	3	CIS Elective	3	
General Education	3	General Education	3	
General Education	3	General Education	3	
Total	**15**	**Total**	**15**	

- 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

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Technical Core Requirements		
CIS 162	CIS 260	COM 201
MTH 125	STA 215	
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 Sciences	Philosophy and Literature
Arts	Mathematical Sciences (MTH 125)
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 or 358)	

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 Information Technology Technical Core course work.

Major Notes:
1) CIS 358 and CIS 331 require Junior-level standing. Both classes are part of the Issues category within the General Education program. Students will still need to take one non-CIS Issues course to fulfill that category.
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 one Issues course.
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.

Track Electives (Choose 1 of the following tracks):
Take **3** courses from within selected track. You must take an additional two courses from any track that you did not select:
1) **Data Management and Visualization:** CIS 320, CIS 335, and CIS 360
2) **Software Development:** CIS 163 or CIS 241, CIS 330, CIS 443
3) **Web and Mobile Applications:** CIS 163 or CIS 241, CIS 357, CIS 371
4) **IT Management:** CIS 330, MGT 300 or MTH 331, CIS 460
5) **Cybersecurity:** CIS 375, CIS 453, CIS 455
6) **IT Specialization:** A list of nine credit hours to be chosen by the student to customize their concentration in specialized areas to complement the students' program goals and approved by an advisor.