

Bachelor of Science (B.S.)
Information Technology
MTH 110 Start

2026 – 2027
Catalog Year

1st Year					
Fall		Winter		Summer	
CIS 250: Principles of Information Systems	3	MTH 122: College Algebra	3		
MTH 110: Algebra	4	CIS 162: Computer Science 1	4		
General Education	3	COM 201: Speech	3		
or WRT 120: Strategies in Writing		WRT 150: Strategies in Writing	4		
General Education	3	or WRT 130: Strategies in Writing – Stretch 2			
CIS 100: Computing Exploration Seminar	1				
Total	14	Total	14		
2nd Year					
Fall		Winter		Summer	
CIS 238: Internet Media and Programming	3	CIS 260: App Development in Visual Basic	4		
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		
STA 215: Intro Applied Statistics	3	MTH 225: Discrete Structures: CS	3		
General Education	3	General Education	3		
Total	15	Total	16		
3rd Year					
Fall		Winter		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: Cloud Computing	3	General Education	3
HCC 304: Usability Design and Evaluation	3	CIS 373: Pervasive Computing	3	General Education	3
CIS 458: System Security	3	CIS 450: IT Project Management	3		
CIS 290: Professional Responsibilities & Practices	3	General Education	3		
Total	15	Total	15		
4th Year					
Fall		Winter		Summer	
CIS 430: Computer and Cyber Forensics	3	CIS 462: IT Project	3		
IT Track	3	IT Track	3		
IT Track	3	IT Elective	3		
IT Elective	3	WRT 350: Business Communication (SWS)	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
- 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 last 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 Sciences	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 or 358)	

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 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 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 be 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 for a total of 5 courses.

- 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 MGT 331, CIS 460
- 5) **Cybersecurity:** CYB 375, CYB 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.