

1st Year		
Fall MTH 201: Calculus 1 4 CIS 162: Computer Science 1 4 General Education 3 WRT 150: Strategies in Writing 4 or WRT 120 <u>and</u> WRT 130 Total 15	Winter CIS 163: Computer Science 2 4 MTH 225: Discrete Structures: CS 3 COM 201: Speech 3 General Education 3 CIS 100: Computing Exploration Seminar 1 Total 14	Summer
2nd Year		
Fall MTH 325: Discrete Structures: CS 2 3 CIS 241: System Level Program and Utilities 3 CIS 290: Prof Responsibilities & Practices 3 STA 215: Intro Applied Statistics 3 or STA 330: Prob and Stats for Computing General Education 3 Total 15	Winter CIS 263: Data Structures and Algorithms 3 CIS 351: Computer Org and Assembly Lang 3 MTH/STA Elective 3 General Education 3 Free Elective 3 Total 15	Summer
3rd Year		
Fall CIS 350: Intro to Software Engineering 3 CIS 353: Database 3 Science Cognate 4 General Education 3 Total 13	Winter CIS 343: Structure of Programming Languages 3 CIS 457: Data Communications 3 CIS Elective 3 General Education 3 General Education 3 Total 15	Summer CIS 490: Internship 2-5 Total 2-5
4th Year		
Fall CIS 452: Operating System Concepts 3 CIS Elective 3 CIS Elective 3 General Education 3 General Education 3 Total 15	Winter CIS 467: Computer Science Project 3 WRT 350: Business Communication (SWS) 3 CIS Elective 3 General Education 3 Free Elective 3 Total 15	Summer

- 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 201)
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)
Issue Course (prerequisite: must have 55+ credits)	Issue Course (prerequisite: must have 55+ credits)

Major Notes:

- 1.) MTH or STA: Please select one of the following courses: MTH 202, MTH 204, MTH 465, STA 216 or STA 418.
- 2.) Sci. Cognate: Students may choose from BIO 120, BIO 121, BMS 202, CHM 125+126, CHM 127+128, GEO 111, PHY 220, PHY 221, PHY 230 and PHY 231.
 - a. The Physical Sciences or Life Sciences general education requirement can be met by careful selecting a CS science cognate course. For example: BIO 120 or BMS 202 would fulfill Life Sciences. GEO 111, CHM 125 + 126, PHY 220, or PHY 230 would fulfill the Physical Sciences categories.
- 3.) CIS 490 can be taken as 2-5 credits. Students will work with the Computing Internship Coordinator to determine the best number of credits for them.
- 4.) 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.
- 5.) 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.