Marian Un	<b>IVERSITY</b>

## ——— Indianapolis ————®

## 2020-21 Computer Science Checklist

Name		
Student ID	 	
Date	 	

GENERAL EDUCATION	COMPUTER SCIENCE MAJOR REQUIREMENTS (60 hours)			
I. Foundational Intellectual Skills (12-13 hours) FYS110 First Year Seminar ENG112 Writing and Community COM101 Public Speaking Mathematics (MAT 230)  II. Knowledge Acquisition (19-20 hours) Science with lab HUM210 Meaning Through Culture	Core Courses (18 hours)  CST 150/171 Intro or Procedural Programming 4  CST 200 Data Structures and Algorithms 4  CST 220 Computer Organization and Assembly  Language 3  CST 250 Design and Analysis of Algorithms 4  CST490 Senior Seminar 2  CST491 Senior Capstone 1			
PHL 130 Human Nature & PersonForeign Language	Breadth and Depth in Computer Science (24 hours)  CST 340 Database Systems 3			
One course from each group A and B: Group A	CST 420 Operating Systems 3 One System Class			
BUS109 Business Plan Competition ECN200 Introductory Economics HIS102 History of the Modern World	CST 315 Computer Graphics 3 CST 320 Computer Architecture 3  One Theory Class			
POL102 Introduction to American Politics  Group B	CST 318 Artificial Intelligence 3 CST 450 Theory of Computation 3			
GST200 Introduction to Gender StudiesPSY101 General PsychologyPSY220 Human Growth & Development	CST 451 Principles of Programming Languages 3  CS Electives (Choose 2, 6 hours total) CST ELE or Internship 3			
SOC101 Introduction to SociologySOC175 Introduction to Anthropology	CST ELE or Internship 3 CS/MAT/SCI Electives (Choose 2, 6 hours total)			
III. Faith, Ethics, and Foundation (6 hours)THL105 Introduction to TheologySecond Approved THL (see catalogue)	Approved CST/MAT/SCI ELE (See catalogue) 3 Approved CST/MAT/SCI ELE (See catalogue) 3			
<ul> <li>IV. Greater Depth Cluster</li> <li>a. Completion of a minor or second major outside school (or department if College of Arts &amp; Sciences)</li> <li>b. Completion of an interdisciplinary minor or concentration outside the first major. See catalog for approved programs.</li> <li>c. Focus on a specific theme (cluster) outside the major. See catalog for cluster course areas</li> </ul>	Mathematics Proficiency (17 hours) MAT 230 Calculus and Analytic Geometry I 4 MAT 231 Calculus and Analytic Geometry II 4 MAT 250 Problem-Solving and Intro to Proofs 3 MAT 310 Linear Algebra 3 MAT 322 Statistical Inference I 3  Total Earned Major Hours			
Total Earned General Education Hours	TOTAL OVERALL EARNED HOURS			



## 2020-21 Major

## **B.S. in Computer Science Program Sample Four-Year Plan**

			Freshma	n Year				
Fall Semester					Spring Semeste	r		
Requirement Category	Course	Credit Hours	Minimum Grade*	Requirement Category	Course	Credit Hours	Minimum Grade*	
General Education	FYS110	3		Major	CST 150/171	4	С	
General Education	PHL 130	3		Major	MAT 231	4	С	
Major	MAT 230	4	С	General Education	ENG112	3		
General Education	Foreign Language	4		General Education	COM101	3		
Minor/Elective/GDC		3		General Education	THL 105	3		
Semester Hours	17			Semester Hours	17			
Cumulative Hours	17			<b>Cumulative Hours</b>	34			
			Sophomo	re Year				
	Fall Semester				Spring Semeste	r		
Requirement	Course	Credit	Minimum	Requirement	Course	Credit	Minimum	
Category		Hours	Grade*	Category		Hours	Grade*	
Major	CST 200	4	С	Major	CST 250	3	С	
Major	MAT 322	3	С	Major	MAT 250	3	С	
General Education	BUS/ECN/HIS/POL	3		General Education	GST/PSY/SOC	3		
General Education	Science w/ lab	4		Major	CST 220	3	С	
Minor/Elective/GDC		3		Minor/Elective/GDC		3		
Semester Hours	17			Semester Hours	15			
Cumulative Hours	51			Cumulative Hours	66			
			Junior	Year				
	Fall Semester		•		Spring Semester			
Requirement	Course	Credit	Minimum	Requirement	Course	Credit	Minimum	
Category		Hours	Grade*	Category		Hours	Grade*	
Major	CST 420	3	С	Major	CST 340	3	С	
Major	CST 315/320	3	С	Major	CST 318/450/451	3	С	
Major	CST ELE	3	С	Major	CST ELE	3	С	
Major	MAT 310	3	С	Minor/Elective/GDC		3		
General Education	HUM 210	3		Minor/Elective/GDC	45	3		
Semester Hours Cumulative Hours			Semester Hours Cumulative Hours	15 96				
Cullidiative Hours	91		Senior		90			
	Fall Semester		Semoi	Teal	Spring Semeste	r		
Requirement	Course	Credit	Minimum	Requirement	Course	Credit	Minimum	
Category	Course	Hours	Grade*	Category	Course	Hours	Grade*	
Major	CST 490	2	С	Major	CST/MAT/SCI ELE	3		
Major	CST 491	1	С	Major	CST/MAT/SCI ELE	3	С	
Major	CST/MAT/SCI ELE	3	С	Minor/Elective/GDC	,	3	С	
Minor/Elective/GDC		3		Minor/Elective/GDC		3		
Minor/Elective/GDC		3		Minor/Elective/GDC		3		
General Education	Second THL	3		Minor/Elective/GDC		2		
Semester Hours	15			Semester Hours	17			

Note: A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation, so monitor your GPA closely. To meet degree requirements, some disciplines require higher grades in each course or a higher cumulative GPA.

This four-year plan is only a sample and will vary by student and course availability. Revised May 2019.