Bachelor of Science in Computer Science -- 120 Credits

Standard Track JCSCI-BS/JSTD-TR

GENERAL EDUCATION REQUIREMENTS (RG 6825)

REQUIRED COURSES

Foundational	Foundational Courses		Satisfie	ed/Term		
Engcmp 0003 o	Engcmp 0003 or 0005					
Engcmp 0004 or 0006		3				
CommRc 0052	Public Speaking	3				
Basic Algebra	or Placement Test					
Math 0001	Algebra 1	3				
Quantitative Reasoning (QR) - 1 Course						
Note - a student cannot test out of their QR requirement.						

WORLDS OF KNOWLEDGE

	Aesthetic and Creative Expression					
Subject Number Course Title CR Satis	sfied/Term					
3						
3						

Global History & Culture						
Subject	Number	r Course Title CR Satis			Satisfie	d/Term
				3		
			:	3		

Societies & Civics						
Subject	Number	Course Title	CR	Satisfied/Term		
			3			
			3			

Science & Nature						
Subject	Number	Course Title	CR	Satisfie	d/Term	
Math	0221	Analytic Geom & Calc 1	4			
			3			

FREE ELECTIVES	Follow-Up Courses							
Free electives are the balance of credits required for	Subject	Number	Course Title	CR	Satisfie	ed/Term		
graduation (120) that are not used to satisfy competencies,	Math	0231	Analytic Geom & Calc 2	4				
knowledge areas, major requirements, electives, or any	Math	0241	Analytic Geom & Calc 3	4				
related area required by the department.								

CR Satisfied/Term

ach student must take 2 courses in each World of Knowledge. The two courses taken within each World nust be from different subjects. A student must take two additional "Follow-Up" courses from any World.

The minimum number of courses taken in the Worlds must be 10.

The Follow-Up courses may repeat a subject previously taken in a World.

A student cannot use a major required Subject course in one of the Worlds.

For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World.

Students cannot use a course to count both in their QR requirement and one of the Worlds.

Students can choose QR and Worlds of Knowledge courses from published course lists.

MAJOR REQUIREMENTS (RG 7267)

First Term (RQ 3395)					
Complete the following Courses			Satisfie	d/Term	
Math 0401	Discrete Math Structures	3			
CS 0100	Perspectives in Comp Science	3			
Requirement Satisfied					

Second Term (RQ 3396)					
Complete the following Courses			Satisfie	d/Term	
CS 0406	Discrete Math 2 and Statistics	3			
CS 0410	Intro to CS Prog Applications	1			
CS 0411	Intro to CS Programming	3			
Requirement Satisfied		7			

Third Term (RQ 3397)					
Complete the following Courses			Satisfie	d/Term	
CS 0045	Algos & Info Structure Apps	1			
CS 0046	Comp Sys Architecture Apps	1			
CS 0455	Algos & Info Structure	3			
CS 0456	Computer System Architecture	3			
Requirement Satisfied		8			

Fourth Term (RQ 3398)					
Complete the following Courses			Satisfied/Term		
CS 0047	Adv Program Concepts Apps	1			
CS 0048	Data Structures & Files Apps	1			
CS 0457	Adv Programming Concepts	3			
CS 0458	Data Structures & Files	3			
Requirement Satisfied		8			

Required Upper Level Mathematics (RQ 3399)					
Complete the following Courses		CR	Satisfied	/Term	
Math 0221	Analytic Geom & Calculus 1	4			
Math 0231	Analytic Geom & Calculus 2	4			
Math 0241	Analytic Geom & Calculus 3	4			
Math 1181	Linear Algebra 1	3			
Requirement Satisfied					

Upper Leve	I CS Electives (RQ 3400)				
Select 15 cr	edits from the following courses	CR	Satisfie	d/Term	
CS 1132	Classical Numerical Analysis				
or Math 107	1 Numerical Math Analysis	3			
CS 1163	Advanced Topics in CS	3			
CS 1164	Advanced CS Topics and Apps	3			
CS 1710	Formal Structures in CS	3			
CS 1713	Algorithm Design & Analysis	3			
CS 1720	Programming Languages	3			
CS 1735	Software Design Methodology	3			
CS 1736	Software Engineering	3			
CS 1750	Systems Programming	3			
CS 1760	Adv Object-Oriented Programming	3			
CS 1761	Mobile Application Development	3			
CS 1762	Web Programming	3			
CS 1765	Data Base Mgmt Systems	3			
CS 1766	Intro to Computer Graphics	3			
CS 1783	Artificial Intelligence Programming	3			
CS 1791	Compiler Design	3			
CS 1792	Operating Systems	3			
CS 1793	Computer Architecture & Org	3			
Requiremen	nt Satisfied	15			

IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

Reviewed 3/24/25