Bachelor of Science in Computer Science -- 120 Credits

Standard Track

JCSCI-BS/JSTD-TR

Effective August 2017

GENERAL EDUCATION REQUIREMENTS (RG 6825)

REQUIRED COURSES

Foundational Courses	CR	Satisfie	ed/Term			
Engcmp 0003 or 0005	3					
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	requ	uiremen	nt.			
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WORLDS OF KNOWLEDGE

Follow-Up Courses

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

Global History & Culture						
Subject	Number	Course Title	CR	Satisfied/Tern		
			3			
			3			

Societies & Civics						
Subject	Number	Course Title	CR	Satisfie	ed/Term	
			3			
			3			

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

FREE ELECTIVES
Free electives are the balance of credits required for
graduation (120) that are not used to satisfy competencies

knowledge areas, major requirements, electives, or any related area required by the department.

| CR | Satisfied/Term

Subject	Number	Course Title	CR	Satisfied/Term	
Math	0231	Analytic Geom & Calc 2	4		
Math	0241	Analytic Geom & Calc 3	4		

Each student must take 2 courses in each World of Knowledge. The two courses taken within each World must 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.

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-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 1	Complete the following Courses			d/Term	
Math 0401	Discrete Math Structures	3			
CS 0100	Perspectives in Comp Science	3			
Requireme	ent Satisfied	6			

O (DO 0000)						
Second Term (RQ 3396)						
Complete	the following Courses	CR	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				
Requirem	ent Satisfied	7				

Third Term (RQ 3397)					
Complete	the following Courses	CR	Satisfied/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			
Requirem	ent Satisfied	8			

Fourth Term (RQ 3398)					
Complete	the following Courses	CR	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					

Required Upper Level Mathematics (RQ 3399)						
Complete	the following Courses	CR	Satisfie	d/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				
Requirem	Requirement Satisfied					

Upper Level CS Electives (RQ 3400)			
Select 15 credits from the following courses		CR	Satisfied/Term
CS 1132	Classical Numerical Analysis		
or Math 1	071 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	
Requirement 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.

Updated 10/10/2024