Bachelor of Science in Computer Science -- 120 Credits

Standard Track

JCSCI-BS/JSTD-TR

Effective August 2016

GENERAL EDUCATION REQUIREMENTS (RG 6825)

REQUIRED COURSES

Foundational Courses		CR	Satisfied/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 requirement.				
		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	

WORLDS OF KNOWLEDGE

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

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

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

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

Follow-Up Courses					
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 8 courses taken in the Worlds must represent 8 different Subjects. A student must take two additional "Follow-Up" courses in 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)

(RQ 3395)

First Term				
Complete the following Courses		**CR**	**Satisfied/Term**	
Math 0401	Discrete Math Structures	3		
CS 0100	Perspectives in Comp Science	3		
Requirement Satisfied		**6**		

(RQ 3396)

Second Term				
Complete the following Courses		**CR**	**Satisfied/Term**	
CS 0406	Discrete Math 2 and Statistics	3		
CS 0410	Intro to CS Applications	1		
CS 0411	Intro to CS Programming	3		
Requirement Satisfied		**7**		

(RQ 3397)

Third Term				
Complete the following Courses		**CR**	**Satisfied/Term**	
CS 0045	Intro to Info Structure Apps	1		
CS 0046	Comp Sys Architecture Apps	1		
CS 0455	Intro to Information Structures	3		
CS 0456	Computer System Architecture	3		
Requirement Satisfied		**8**		

(RQ 3398)

Fourth Term				
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		**8**		

(RQ 3399)

Required Upper Level Mathematics				
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		**15**		

(RQ 3400)

Upper Level CS Electives				
Select 15 credits from the following courses		**CR**	Satisfied/Term	
CS 1132	Classical Numerical Analysis			
or Math 1071	Numerical Math Analysis	3		
CS 1163	Advanced Topics in CS	3		
CS 1164	Advanced Topics in CS	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	3		
CS 1750	Systems Programming	3		
CS 1760	Advanced Programming	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.

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