Bachelor of Science in Computer Science -- 120 Credits

Standard Track

JCS-BS/JBS-STD-TR (RG 255)

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 255)

(RQL 0774-10)

Required Courses		CR	Satisfied/Term	
CS 0045	Intro to Info Structure Apps	1		
CS 0046	Comp Sys Architecture Apps	1		
CS 0047	Adv Program Concepts Apps	1		
CS 0048	Data Structures & Files Apps	1		
CS 0100	Perspectives in Comp Science	3		
CS 0406	Discrete Math 2 and Statistics	3		
CS 0410	Intro to CS Applications	1		
CS 0411	Intro to CS Programming	3		
CS 0455	Intro to Information Structures	3		
CS 0456	Computer System Architecture	3		
CS 0457	Adv Programming Concepts	3		
CS 0458	Data Structures & Files	3		
Math 0221	Analytic Geom & Calculus 1	4		
Math 0231	Analytic Geom & Calculus 2	4		
Math 0241	Analytic Geom & Calculus 3	4		
Math 0401	Discrete Math Structures	3		
Math 1181	Linear Algebra 1	3		
Requirement Satisfied		**44**		

(RQL 0780-20, 10)

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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