Bachelor of Science in Computer Science -- 120 Credits

Applied Track JCSCI-BS/JACS-TR

Effective August 2017

GENERAL EDUCATION REQUIREMENTS

REQUIRED COURSES (RG 7257)

REGUINED COOKSES (NO 1231)					
Foundational Courses		CR	Satisfied/Ter		
Engcmp 0003 or 0005		3			
Engcmp 0004 or 0	006		3		
CommRc 0052	Public Speaking		3		
Basic Algebra o	r Placement Test				
Math 0001	Algebra 1		3		
Quantitative Rea	asoning (QR) - 1 Cou	urse			
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/Terr			

WORLDS OF KNOWLEDGE (RG 7256)

Societies & Civics (RQ 3150)

Aesthetic and Creative Expression (RQ 3148)					
Subject	Number	Course Title	e CR Satisfied/Term		ed/Term
			3		
			3		
			3		

Global History & Culture (RQ 3149)						
Subject	Number	Course Title		CR	Satisfie	ed/Term
				3		
				3		

CR Satisfied/Term

4

Science & Nature (RQ 3153)

Number Course Title

0221 Analytic Geom & Calc 1

Subject

Math

		3		
		3		
Follow-Up Courses (RQ 3154)				

 Follow-Up Courses (RQ 3154)

 Subject
 Number Course Title
 CR Satisfied/Term

 Math
 0401
 Discrete Math Structures
 3

 3
 3

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.

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 7269)

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		6		

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		
Requirement Satisfied		7		

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

Required Upper Level (RQ 3408)				
Complete the following Courses		CR	Satisfied/Tern	n
Math 0221	Analytic Geom & Calculus 1	4		
CS 1165	Directed Project	3		
CS 1735	Software Design Methods	3		
CS 1736	Software Engineering	3		
CS 1760	Adv Object-Oriented Programming	3		
CS 1765	Database Mgmt Systems	3		
Requireme	ent Satisfied	19		

Upper Level CS Electives (RQ 3409)					
Select 15 c	redits from the following courses	CR	Satisfie	d/Term	
CS 1163	Advanced Topics in CS	3			
CS 1164	Advanced CS Topics and Apps	3			
CS 1713	Algorithm Design	3			
CS 1720	Programming Languages	3			
CS 1750	Systems Programming	3			
CS 1761	Mobile Application Development	3			
CS 1762	Web Programming	3			
CS 1766	Intro to Computer Graphics	3			
CS 1783	Artificial Intelligence Programming	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.

Reviewed 3/24/25