

Bachelor of Science in Computer Science -- 120 Credits

Applied Track

JCS-BS/JBS-ACS-TR (RG 4761)

(Effective September 2009)

GENERAL EDUCATION REQUIREMENTS (RG 245)

COMPETENCY AREAS - See Approved List of GenEd Courses

(RQ 736)

WRITING (RQL 736-10, 20)	CR	Satisfied/Term
Engcmp 0003 or 0005	3	
Engcmp 0004 or 0006	3	
Select one of the following options (RQL 736-30, 40)		
1 Primary Writing OR 2 Writing Enhanced courses		
	3	
	3	

(RQ 760)

SPEAKING (Select one option below)		
Option A: Any 3 Speaking Enhanced Courses (RQL 760-30)		
	3	
	3	
	3	
Option B: 1 course from each area below (RQL 760-10, 20)		
Any Primary Speaking Course		
	3	
Any Speaking Enhanced Course		
	3	

(RQ 886)

BASIC ALGEBRA & QUANTITATIVE REASONING		
The following requirements may be satisfied through placement exams; UPJ courses, transfer or College in High School courses		
Basic Algebra Requirement (RQL 886-10)	CR	Satisfied/Term
Satisfied by:		
Quantitative Reasoning Requirement (RQL 886-20)		
Satisfied by:		

KNOWLEDGE AREAS - See Approved List of GenEd Courses

(RQL 722-10 thru -60)

Social Science - 12 credits minimum		
Select one of the following options		
A. Select 1 course from 4 different disciplines		
B. Select 1 course from 3 different disciplines AND 1 follow-up course in any one of those 3		
Anthropology		
Economics		
Geography		
History		
Political Science		
Sociology		
Follow-up course		

(RQL 725 -50 thru -130)

Humanities - 12 credits minimum		
Select one of the following options		
A. Select 1 course from 4 different disciplines		
B. Select 1 course from 3 different disciplines AND 1 follow-up course in any one of those 3		
Communication		
English Literature		
English Writing		
Fine Arts		
Foreign Language		
Journalism		
Music		
Philosophy		
Theatre		
Follow-up course		

(RQ 1612)

Natural Science - 12 credits minimum		
Fulfilled by Required Courses	9	
An additional course from any one of:	3	
Biology		
Chemistry		
Geology		
Physics		
Psychology		

MAJOR REQUIREMENTS (RG 4761)

(RQL 1977-10)

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	
CS 1165 Directed Project	3	
CS 1735 Software Design Methods	3	
CS 1736 Software Engineering	3	
CS 1760 Adv Object-Oriented Prgmmg	3	
CS 1765 Database Mgmt Systems	3	
Math 0221 Analytic Geom & Calculus 1	4	
Math 0401 Discrete Math Structures	3	

(RQL 1979-10)

Upper Level CS Electives		
Select 15 credits from the following courses		
CS 1163 Advanced Topics in CS	3	
CS 1164 Advanced Topics in CS	3	
CS 1713 Algorithm Design	3	
CS 1720 Programming Languages	3	
CS 1750 Systems Programming	3	
CS 1762 Web Programming	3	
CS 1766 Intro to Computer Graphics	3	
CS 1783 Artificial Intelligence Progamng	3	
CS 1792 Operating Systems	3	
CS 1793 Computer Architecture & Org	3	

FREE ELECTIVES

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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.

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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