

General Education Requirements: Students must complete the DSC requirements for General Education or equivalent.		
CS Emphasis Requirements	Credits	Prerequisites and notes
• CS 1400, Fundamentals of Programming	3	
• CS 1410, Object-Oriented Programming	3	CS 1400
• CS 2420, Introduction to Algorithms and Data Structures	3	CS 1410
• CS 2450, Software Engineering	3	CS 2420
• CS 2810, Computer Organization and Architecture	3	CS 1410
• CS 3400, Operating Systems	3	CS 2420 and CS 2810
• CS 3510, Advanced Data Structures	3	CS 2420, CS 2810 and MATH 3310
• CS 3520, Programming Language	3	CS 2420 and CS 2810
• CS 3530, Computational Theory	3	CS 2420, CS 2810 and MATH 3310
• CS 3600, Graphics Programming	3	CS 2420 and CS 2810
• CS 4300, Artificial Intelligence	3	CS 2420 and CS 2810
• CS 4550, Compilers	3	CS 2420 and CS 2810
• CS 4600, Senior Project	3	Instructor Permission Required
• IT 1100, Introduction to Operating Systems	3	
• IT 2400, Introduction to Networking	3	IT 1100 (Pre or Co-Requisite)
• IT 4300, Database Design and Management	3	CS 1410 and IT 2400
• MATH 1210, Calculus I	5	MATH 1050 and MATH 1060, or MATH 1065. You must receive a C or better to advance from one math course to the next course.
• MATH 3310, Discrete Math	3	MATH 1210
• VT 1400, Intro. to Internet Development	3	
• ENGL 3010, Writing in the Professions	3	ENGL 2010
TOTAL	62	
CS Emphasis Electives (9 credits from the following)	Credits	Prerequisites and Notes
• CS 3500, Application Development	3	CS 1410
• CS 4000, Dynamic Web Development	3	CS 2420 and VT 1400
• IT 3100, Systems Design and Administration I	3	CS 1400 and IT 2400
• IT 3110, Systems Design and Administration II	3	IT 3100
• IT 3200, Perl Programming	3	CS 1410
• IT 4200, Advanced Web Delivery	3	IT 3100 and VT 1400
• MATH 1220, Calculus II	4	MATH 1210
• MATH 2210, Multivariable Calculus	3	MATH 1220
• MATH 2270, Linear Algebra	3	MATH 1210
• MATH 2280, Ordinary Differential Equations	3	MATH 2210 and MATH 2270
• MATH 3400, Probability and Statistics	3	MATH 1220
TOTAL	9	

A minimum of 40 upper-division credits are required. Total credits for baccalaureate degree: 120