

General Education Requirements: Students must complete the DSC requirements for General Education or equivalent.		
CS Requirements	Credits	Prerequisites and notes
• CS 1400, Fundamentals of Programming	3	
• CS 1410, Object-Oriented Programming	3	CS 1400
• CS 2420, Intro 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 3005, Programming in C++	2	CS 1410
• CS 3310, Discrete Math	3	CS 1410 and MATH 1210
• CS 3510, Advanced Algorithms/Data Structures	3	CS 2420, CS 2810 and CS 3310
• CS 3520, Programming Language	3	CS 2420 and CS 2810
• CS 3530, Computational Theory	3	CS 2420, CS 2810 and CS 3310
• CS 3600, Graphics Programming	3	CS 2420 and CS 2810
• CS 4300, Artificial Intelligence	3	CS 2420 and CS 2810
• CS 4307, Database Design and Management	3	CS 2420 and CS 2810
• CS 4550, Compilers	3	CS 2420 and CS 2810
• CS 4600, Senior Project	3	Senior Status
• MATH 1210, Calculus I	5	MATH 1050 and MATH 1060, or MATH 1065 or ACT 26 or above.
• MATH 1220, Calculus II	4	Math 1210
• BIOL 1610/1615 Principles of Biology I with Lab	5	
• PHYS 2210/2215 Physics for Scientists/Engineers I with Lab	5	Math 1210
Choose one of the following:		
• CS 3000 Internet Publishing & Design or	3	CS 2420
CS 4000, Dynamic Web Development or	3	CS 2420 and VT 1400
CS 4010, Interactive Web Development	3	CS 2420 and VT 1400
Choose one of the following:		
• CS 3400, Operating Systems or	3	CS 2420 and CS 2810, or
CS 3410, Distributed Systems	3	CS 2420, CS 2810 and IT 2400
TOTAL	69	
Math & Science Elective Courses (8 or more credits from the following list; at least 3 credits with MATH prefix)	Credits	Prerequisites and Notes
• MATH 2210, Multivariable Calculus	3	MATH 1220
• MATH 2270, Linear Algebra	3	MATH 1210
• MATH 2280, Ordinary Differential Equations	3	MATH 1220
• MATH 3400, Probability and Statistics	3	MATH 1220
• BIOL 1620/1625 Principles of Biology II with Lab	5	BIOL 1610/1615
• CHEM 1210/1215 Principles of Chemistry I with Lab	5	MATH 1050
• CHEM 1220/1225 Principles of Chemistry II with Lab	5	CHEM 1210/1215
• PHYS 2220/2225 Physics for Scientists/Engineers II with Lab	5	PHYS 2210/2215
TOTAL	8	
Computer Science Elective Courses (9 credits from the following list) *A course used to fulfill CS requirements cannot be used as an elective course.	Credits	Prerequisites and Notes
• VT 1400, Intro to Internet Development	3	
• CS 3000*, Internet Publishing & Design	3	CS 2420
• CS 3100, Interactive Multimedia	3	CS 2420
• CS 3400*, Operating Systems	3	CS 2420 and CS 2810
• CS 3410*, Distributed Systems	3	CS 2420, CS 2810 and IT 2400
• CS 3500, Application Development	3	CS 1410
• CS 4000*, Dynamic Web Development	3	CS 2420 and VT 1400
• CS 4010*, Interactive Web Development	3	CS 2420 and VT 1400
• CS 4990, Seminars in Computer Science	1-3	Instructor Permission Required

Dixie State's general graduation requirements are described in this online catalog under the "Advisement and Graduation" link. Those requirements are also available in the College's online policies at

<http://www.dixie.edu/humanres/policy/sec5/520.html>.

• 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
• IT 4500, Information Security	3	CS 1400 and IT 3100
TOTAL	9	

Complete a minimum of 120 college-level credits (1000 and above). Complete at least 40 upper-division credits (3000 and above). Complete at least 30 upper-division credits at DSC for institutional residency. Cumulative GPA 2.0 or higher. Grade C- or higher in each Core Discipline and Elective Requirement Course. Math prerequisites requires C or higher. A course may only be used to fulfill one program requirement.

NOTE: This is a worksheet only. For graduation you must use the 2012-2013 Catalog.