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 (C- or higher)
• CS 2420, Intro to Algorithms and Data Structures	3	CS 1410 (C- or higher)
• CS 2450, Software Engineering	3	CS 2420 (C- or higher)
• CS 2810, Computer Organization and Architecture	3	CS 1410 (C- or higher)
• CS 3005, Programming in C++	3	CS 1410 (C- or higher)
• CS 3510, Advanced Algorithms/Data Structures	3	CS 2420, CS 2810 and CS 3310 (all >=C-)
• CS 3520, Programming Language	3	CS 2420 and CS 2810 (all >=C-)
• CS 3530, Computational Theory	3	CS 2420, CS 2810 and CS 3310 (all >=C-)
• CS 3600, Graphics Programming	3	CS 2420 and CS 3005 (all >=C-)
• CS 4300, Artificial Intelligence	3	CS 2420, CS 2810 and CS 3005 (all >=C-)
• CS 4307, Database Design and Management	3	CS 2420 and CS 2810 (all >=C-)
• CS 4550, Compilers	3	CS 2420, CS 2810 and CS 3005 (all >=C-)
• CS 4600, Senior Project	3	Senior Standing
Choose one of the following:		
• CS 3000 Internet Publishing & Design or	3	CS 2420 (C- or higher)
CS 4000, Dynamic Web Development or	3	CS 2420 and VT 1400 (all >=C-)
CS 4010, Interactive Web Development	3	CS 2420 and VT 1400 (all >=C-)
Choose one of the following:		
• CS 3400, Operating Systems or	3	CS 2420, CS 2810 and CS 3005 (all >=C-)
CS 3410, Distributed Systems	3	CS 2420 and CS 2810 (all >=C-)
TOTAL	**47**	
Math & Science Core Requirements	**Credits**	**Prerequisites and Notes**
• BIOL 1610/1615 Principles of Biology I with Lab	5	
• CS 3310, Discrete Math	3	CS 1410 and MATH 1210 (all >=C-)
• MATH 1210, Calculus I	5	MATH 1065 (C or higher)
• MATH 1220, Calculus II	4	Math 1210 (C or higher)
• PHYS 2210/2215 Physics for Scientists/Engineers I with Lab	5	Math 1210
TOTAL	**22**	
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 (C or higher)
• MATH 2270, Linear Algebra	3	MATH 1210 (C or higher)
• MATH 2280, Ordinary Differential Equations	3	MATH 1220 (C or higher)
• MATH 3400, Probability and Statistics	3	MATH 1220 (C or higher)
• 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 (C or higher)
• 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 and MATH 1220
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**
• CS 3000*, Internet Publishing & Design	3	CS 2420 (C- or higher)
• CS 3010, Mobile App Development	3	CS 2420 and CS 3005 (all >= C-)
• CS 3100, Interactive Multimedia	3	CS 2420 (C- or higher)
• CS 3400*, Operating Systems	3	CS 2420, CS 2810 and CS 3005(all >= C-)
• CS 3410*, Distributed Systems	3	CS 2420 and CS 2810 (all >= C-)
• CS 3500, Application Development	3	CS 3005 (C- or higher)
• CS 4000*, Dynamic Web Development	3	CS 2420 and VT 1400 (all >= C-)

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.

• CS 4010*, Interactive Web Development	3	CS 2420 and VT 1400 (all >= C-)
• CS 4990, Seminars in Computer Science	1-6	Instructor Permission Required
• IT 3100, Systems Design and Administration I	3	CS 1400 and IT 2400 (all >= C-)
• IT 3110, Systems Design and Administration II	3	IT 3100 (C- or higher)
• IT 3200, Perl Programming	3	CS 1410 (C- or higher)
• IT 4200, Advanced Web Delivery	3	IT 3100 and VT 1400 (all >= C-)
• IT 4500, Information Security	3	IT 3100 (C- or higher)
• VT 1400, Into to Internet Development	3	
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 2013-2014Catalog.

***NOTE: A course may only be used to fulfill one program requirement.**