

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 (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 3010, Mobile App Development	3	CS 2420 and CS 3005 (all \geq C-)
• CS 3410, Distributed Systems	3	CS 2420 and CS 2810 (all \geq C-)
• CS 3500, Application Development	3	CS 3005 (C- or higher)
• CS 3520, Programming Language	3	CS 2420 and CS 2810 (all \geq C-)
• CS 3600, Graphics Programming	3	CS 2420 and CS 3005 (all \geq C-)
• CS 4300, Artificial Intelligence	3	CS 2420, CS 2810 and CS 3005 (all \geq C-)
• CS 4307, Database Design and Management	3	CS 2420 and CS 2810 (all \geq C-)
• CS 4550, Compilers	3	CS 2420, CS 2810 and CS 3005 (all \geq C-)
• CS 4600, Senior Project	3	Senior Status
• ENGL 3010, Writing in the Professions	3	ENGL 2010/A (C or above)
• IT 1100, Introduction to Operating Systems	3	
• IT 2400, Introduction to Networking	3	IT 1100 (C- or higher)
• MATH 1210, Calculus I	5	MATH 1050 and MATH 1060, or MATH 1065 or ACT 26 and above.
• VT 1400, Intro. to Internet Development	3	
Choose one of the following:		
• CS 3000, Internet Publishing and Design	3	CS 2420 (C- or higher)
• CS 4000, Dynamic Web Development	3	CS 2420 and VT 1400 (all \geq C-)
• CS 4010, Interactive Web Development	3	CS 2420 and VT 1400 (all \geq C-)
TOTAL	65	
CS Emphasis Electives (9 credits from the following list) *A course used to fulfill CIT/CS requirements cannot be used as an elective course.	Credits	Prerequisites and Notes
• CS 3000*, Internet Publishing and Design	3	CS 2420 (C- or higher)
• CS 3100, Interactive Multimedia	3	CS 2420 (C- or higher)
• CS 3310, Discrete Math	3	CS 1410 and MATH 1210 (all \geq C-)
• CS 3400, Operating Systems	3	CS 2420, CS 2810, CS 3005 (all \geq C-)
• CS 3510, Advanced Algorithms/Data Structures	3	CS 2420, CS 2810, CS 3310 (all \geq C-)
• CS 3530, Computational Theory	3	CS 2420, CS 2810, CS 3310 (all \geq C-)
• CS 4000*, Dynamic Web Development	3	CS 2420 and VT 1400 (all \geq C-)
• CS 4010*, Interactive Web Development	3	CS 2420 and VT 1400 (all \geq C-)
• CS 4990 Seminar in Computer Science	1-6	Instructor Permission Required
• IT 3100, Systems Design and Administration I	3	CS 1400 and IT 2400 (all \geq C-)
• IT 3110, Systems Design and Administration II	3	IT 3100 (C- or higher)
• IT 3200, Perl Programming (old)	3	CS 1410 (C- or higher)
• IT 4200, Advanced Web Delivery	3	IT 3100 and VT 1400 (all \geq C-)
• IT 4500, Information Security	3	IT 3100 (C- or higher)
• MATH 1220, Calculus II	4	MATH 1210 (C or higher)
• 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)
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

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>.



Requirements for Bachelor of Science Degree in
Computer and Information Technology with
Computer Science (CS) Emphasis

Effective July 2013

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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. For each cross-listed CS and VT course, only one may be used to fill elective credits.

NOTE: This is a worksheet only. For graduation you must use the 2013-2014 Catalog.