DIXIE STATE COLLEGE
Computer Information Technology: Emphasis in Computer Science (CS)

Bachelor of Science (BS) Degree Requirements:

1. Complete all General Education & Institutional Course Requirements. See Course Catalog for details (pages 73-74)
2. Complete at least 120 college-level credits (1000 and above)
3. Complete at least 40 upper-division credits (3000 and above)
4. Complete at least 30 upper-division credits (3000 and above) at DSC for Institutional Residency
5. Grade and GPA Requirements: Minimum Cumulative 2.0 GPA and an Institutional 2.0 GPA or higher
   Minimum "C minus" grade in each Departmental Academic Requirement course listed below:

DEPARTMENTAL ACADEMIC REQUIREMENTS

Core CS Emphasis Requirements		44 Credits
CS 1400	Fundamentals of Programming	3
CS 1410	Object-Oriented Programming	3
CS 2420	Intro to Algorithms & Data Structures	3
CS 2810	Computer Organization and Architecture	3
CS 2450	Software Engineering	3
CS 3005	Programming in C++	2
CS 3310	Discrete Mathematics	3
CS 3510	Advanced Algorithms & Data Structures	3
CS 3520	Programming Language	3
CS 3530	Computational Theory	3
CS 3600	Graphics Programming	3
CS 4300	Artificial Intelligence	3
CS 4550	Compilers	3
CS 3400 or 3410	Operating Systems or Distributed Systems	3
CS 4600	Senior Project	3

Other Core CS Emphasis Requirements		20 Credits
IT 1100	Introduction to Operating Systems	3
IT 2400	Introduction to Networking	3
IT 4300	Database Design and Management	3
VT 1400	Introduction to Internet Development	3
ENGL 3010	Writing in the Professions	3
MATH 1210	Calculus I	5

Elective Requirements	9 Credits
See catalog for course options (pages 73-74)	

FOUR YEAR PLAN (SAMPLE)

FIRST YEAR (FALL)		
Course #	Course Title	Credit
CS 1400	Fundamentals of Programming	3
IT 1100	Introduction to Operating Systems	3
Math 1210	Calculus I	5
Engl 1010	Introduction to Writing	3
Lib 1010	Information Literacy	1
CIT 1001	1st Year Experience	1
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FIRST YEAR (SPRING)		
Course #	Course Title	Credit
CS 1410	Object Oriented Programming	3
IT 2400	Introduction to Networking	3
VT 1400	Introduction to Internet Development	3
Engl 2010	Intermediate Writing	3
CIS 1200	Computer Literacy	3
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SECOND YEAR (FALL)		
Course #	Course Title	Credit
CS 2420	Intro to Algorithms & Data Structures	3
CS 3005	Programming in C++	2
CS 2810	Computer Organization and Architecture	3
GE-LS	Life Sciences	3-5
GE-PS	Physical Sciences	3-5
GE-Lab	Laboratory Science	0-1
		15

SECOND YEAR (SPRING)		
Course #	Course Title	Credit
CS 2450	Software Engineering	3
CS 3600	Graphics Programming	3
GE-AI	American Institutions	3
GE-FA	Fine Arts	3
GE-Lit	Humanities/Literature	3
		15

THIRD YEAR (FALL)		
Course #	Course Title	Credit
CS 3310	Discrete Math	3
CS 3520	Programming Language	3
CS 3400 or 3410	Operating Systems or Distributed Systems	3
CS Elective	From Elective List	3-5
GE-SS	Social & Behavioral Sciences	3
		15

THIRD YEAR (SPRING)		
Course #	Course Title	Credit
CS 3510	Advanced Algorithms/Data Structures	3
CS 3530	Computational Theory	3
Engl 3010	Writing in the Professions	3
GE-Exp	Exporation	3-5
GE-GLOCUP	Global & Cultural Perspectives	0-6
		15

FOURTH YEAR (FALL)		
Course #	Course Title	Credit
CS 4300	Artificial Intelligence	3
IT 4300	Database Design and Management	3
CS Elective	From Elective List (Upper Division)	3
	Elective Credit	3
	Elective Credit	3
		15

FOURTH YEAR (SPRING)		
Course #	Course Title	Credit
CS 4600	Senior Project	3
CS 4550	Compilers	3
CS Elective	From Elective List (Upper Division)	3
	Elective Credit	3
	Elective Credit	3
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