

Bachelor of Science in Computer & Information Technology

Program Curriculum

120 credits

DSU General Education Requirements

All DSU General Education requirements must be fulfilled. A previously earned degree may fulfill those requirements, but courses must be equivalent to DSU's minimum General Education standards in American Institutions, English, and Mathematics.

Code	Title	Hours
General Education Core Requirements (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		
English		3-7
Mathematics		3-5
American Institutions		3-6
Life Sciences		3-10
Physical Sciences		3-5
Laboratory Science		0-1
Fine Arts		3
Literature/Humanities		3
Social & Behavioral Sciences		3
Exploration		3-5

Code	Title	Hours
Core Discipline Requirements		
CS 1400	Fundamentals of Programming	3
CS 1410	Object Oriented Programming	3
CS 2420	Introduction to Algorithms and Data Structures	3
CS 2450	Software Engineering	3
or WEB 3450	Software Engineering	
CS 3005	Programming in C++	3
CS 3010	Mobile Application Development for Android	3
or CS 3020	Mobile Application Development: iOS	
or CS 3500	Application Development	
DES 1300	Design I	3
DES 2100	Design Thinking	3
DES 2300	Design II	3
ENGL 3010	Writing in the Professions	3
IT 1100	Introduction to Unix/Linux	3
IT 2400	Intro to Networking	3
IT 3100	Systems Design and Administration I	3
WEB 1400	Web Design I: Fundamentals	3
WEB 3400	Web Design II: Essentials	3
WEB 3500	Electronic Commerce	3
MATH 1050	College Algebra / Pre-Calculus	4
CS 4600	Senior Project	3
or IT 4600	Senior Project	
or WEB 4600	Senior Project	

Discipline Elective Requirements

Complete 21 credits from the following:

ARTH 3750	Graphic Design History	3
CS 2810	Computer Organization and Architecture	3

CS 3010	Mobile Application Development for Android	3
CS 3020	Mobile Application Development: iOS	3
CS 3200	Web Application Development I	3
CS 3400	Operating Systems	3
CS 3410	Distributed Systems	3
CS 3440	Software Practices	3
CS 3600	Graphics Programming	3
CS 4200	Web Application Development II	3
CS 4300	Artificial Intelligence	3
CS 4550	Compilers	3
CS 4920R	Internship	1-3
CS 4990	Sem in Computer Science	3
CS 4991R	Competitive Programming	0.5
DES 1100	Intro to Digital Design	3
DES 2710	Typography I	3
DES 3300	Intro to Digital Video Editing	3
DES 3400	Information Design	3
DES 3500	Interface Design	3
DES 4100	Interaction Design	3
DES 3600	3-D Visualization	3
DES 3800	Branding	3
DES 4650	Publication Design	3
IT 1200	A+ Computer Hardware/Windows OS	3
IT 3110	Systems Design and Administration II	3
IT 3150	Windows Servers	3
IT 3300	Virtualization	3
IT 4100	Files Systems and Storage Technologies	3
IT 4200	DevOps Lifecycle Management	3
IT 4300	Database Design & Management	3
IT 4310	Database Administration	3
IT 4400	Network Design & Management	3
IT 4500	Information Security	3
IT 4920R	Internship	1-3
IT 4990	Seminar in Inform Technology	3
WEB 3200	Web Application Development I	3
WEB 3550	Internet & eCommerce Marketing	3
WEB 4200	Web Application Development II	3
WEB 4400	Web Design III: Advanced Techniques	3
WEB 4900R	Independent Research	1-3
WEB 4920	Internship	3
WEB 4990	Seminar in Web Development	3

NOTE: A course may only be used to fulfill one program requirement. Dual-listed courses may only be used once to fill requirements. Consult course descriptions in the current catalog to verify dual-listed courses.

Graduation Requirements

1. Complete a minimum of 120 college-level credits (1000 and above).
2. Complete at least 40 upper-division credits (3000 and above).
3. Complete at least 30 upper-division credits at DSU for institutional residency.
4. Cumulative GPA 2.0 or higher.
5. Grade C- or higher in each Core Discipline and Elective Requirement course.

Graduation Plan

Course	Title	Hours
1st Year		
Fall Semester		
First Year Recommended Elective		2
DES 1300	Design I	3
WEB 1400	Web Design I: Fundamentals	3
ENGL 1010 or ENGL 1010D	Introduction to Writing (EN) or Introduction to Writing (EN)	3
MATH 1100	Business Calculus (meets General Education (Mathematics) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext))	3
General Elective		1
Milestones & Notes: Meet with your program advisor. Maintain minimum prerequisite and program grade requirements.		
	Hours	15
Spring Semester		
CS 1400	Fundamentals of Programming	3
DES 2300	Design II	3
ENGL 2010	Intermediate Writing Selected Topics: (EN)	3
IT 1100	Introduction to Unix/Linux	3
General Education (Social & Behavioral Sciences) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
Milestones & Notes: Meet with your program advisor. Maintain minimum prerequisite and program grade requirements.		
	Hours	15
2nd Year		
Fall Semester		
CS 1410	Object Oriented Programming	3
IT 2400	Intro to Networking	3
WEB 3400	Web Design II: Essentials	3
General Education (American Institutions) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
General Education (Fine Arts) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
Milestones & Notes: Meet with your program advisor. Maintain minimum prerequisite and program grade requirements.		
	Hours	15
Spring Semester		
CS 2420	Introduction to Algorithms and Data Structures	3
CS 3005	Programming in C++	3
DES 2100	Design Thinking	3
CIT Elective: Upper Division		3
General Education (Literature/Humanities) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
Milestones & Notes: Meet with your program advisor. Maintain minimum prerequisite and program grade requirements.		
	Hours	15
3rd Year		
Fall Semester		
CS 2450 or WEB 3450	Software Engineering or Software Engineering	3
IT 3100	Systems Design and Administration I	3
CIT Elective: Upper Division		3
General Education (Life Sciences) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
General Education (Physical Sciences) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
General Education (Lab Science) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		1
Milestones & Notes: Meet with your program advisor. Maintain minimum prerequisite and program grade requirements.		
	Hours	16
Spring Semester		
WEB 3500	Electronic Commerce	3

CIT Elective: Upper Division		3
CIT Elective: Upper Division		3
ENGL 3010	Writing in the Professions	3
General Education (Exploration) (catalog.dixie.edu/programs/generaleducation/#grequirementstext)		3
Milestones & Notes: Meet with your program advisor. Maintain minimum prerequisite and program grade requirements.		
Hours		15
4th Year		
Fall Semester		
CS 3010	Mobile Application Development for Android	3
or CS 3020	or Mobile Application Development: iOS	
or CS 3500	or Application Development	
CIT Elective: Upper Division		3
CIT Elective: Upper Division		3
General Elective		3
General Elective		3
Milestones & Notes: Apply for graduation (SPRING DEADLINE NOV. 1, FALL DEADLINE APR. 1). Meet with your program advisor. Maintain minimum prerequisite and program grade requirements.		
Hours		15
Spring Semester		
CS 4600	Senior Project	3
or IT 4600	or Senior Project	
or WEB 4600	or Senior Project	
CIT Elective: Upper Division		3
General Elective		3
General Elective		3
General Elective		2
Milestones & Notes: Double check with advisor for final classes. Maintain minimum program grade requirements. Congratulations!		
Hours		14
Total Hours		120