

# Bachelor of Science in Computer & Information Technology - Information Technology Emphasis

## 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
<b>General Education Core Requirements</b> (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
<b>Core Discipline Requirements</b>		
CS 1400	Fundamentals of Programming	3
CS 1410	Object Oriented Programming	3
ENGL 3010	Writing in the Professions	3
IT 1100	Introduction to Unix/Linux	3
IT 1200	A+ Computer Hardware/Windows OS	3
IT 2400	Intro to Networking	3
IT 3100	Systems Design and Administration I	3
IT 3110	Systems Design and Administration II	3
IT 3150	Windows Servers	3
IT 3300	Virtualization	3
IT 4200	DevOps Lifecycle Management	3
IT 4300	Database Design & Management	3
IT 4400	Network Design & Management	3
IT 4500	Information Security	3
IT 4510	Ethical Hacking & Network Defense	3
IT 4600	Senior Project	3
MATH 1050	College Algebra / Pre-Calculus	4
WEB 1400	Web Design I: Fundamentals	3

### Discipline Elective Requirements

Complete 18 credits from the following:

BUS 1010	Introduction to Business	3
CJ 2700	Introduction to Digital Forensics	3
CJ 3810	Advanced Digital Forensics	3
CJ 3900	Digital Forensics Tools	3
CJ 3950	Digital Forensics Tools II	3
CJ 4700	File System Analysis	3
CJ 4750	Small Device Forensics	3

CS 2420	Introduction to Algorithms and Data Structures	3
CS 2450	Software Engineering	3
CS 3005	Programming in C++	3
CS 3010	Mobile Application Development for Android	3
CS 3020	Mobile Application Development: iOS	3
CS 3200	Web Application Development I	3
CS 3500	Application Development	3
CS 3600	Graphics Programming	3
CS 4200	Web Application Development II	3
DES 1100	Intro to Digital Design	3
DES 1300	Design I	3
IT 4060	Big Data Analytics	3
IT 4070	Big Data Visualization	3
IT 4100	Files Systems and Storage Technologies	3
IT 4310	Database Administration	3
IT 4920R	Internship	1-3
IT 4990	Seminar in Inform Technology	3
WEB 3200	Web Application Development I	3
WEB 3400	Web Design II: Essentials	3
WEB 3500	Electronic Commerce	3
WEB 3550	Internet & eCommerce Marketing	3
WEB 4200	Web Application Development II	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.
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
<b>1st Year</b>		
<b>Fall Semester</b>		
First Year Recommended Elective		2
IT 1100	Introduction to Unix/Linux	3
WEB 1400	Web Design I: Fundamentals	3
ENGL 1010 or ENGL 1010D	Introduction to Writing (EN) or Introduction to Writing (EN)	3
MATH 1050	College Algebra / Pre-Calculus (meets General Education (Mathematics) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext))	4
Milestones & Notes: Meet with your program advisor. Maintain minimum prerequisite and program grade requirements.		
		Hours
		15
<b>Spring Semester</b>		
CS 1400	Fundamentals of Programming	3
IT 1200	A+ Computer Hardware/Windows OS	3
IT 2400	Intro to Networking	3
ENGL 2010	Intermediate Writing Selected Topics: (EN)	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
<b>2nd Year</b>		
<b>Fall Semester</b>		
CS 1410	Object Oriented Programming	3
IT 3100	Systems Design and Administration I	3
IT 3300	Virtualization	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
<b>Spring Semester</b>		
IT 3110	Systems Design and Administration II	3
IT 3150	Windows Servers	3
IT Elective: Upper Division		3
IT 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
<b>3rd Year</b>		
<b>Fall Semester</b>		
IT 4200	DevOps Lifecycle Management	3
IT 4300	Database Design & Management	3
IT 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
<b>Spring Semester</b>		
IT 4500	Information Security	3
ENGL 3010	Writing in the Professions	3
IT Elective		3
IT Elective		3
General Education (Exploration) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
Milestones & Notes: Meet with your program advisor. Maintain minimum prerequisite and program grade requirements.		
	Hours	15
<b>4th Year</b>		
<b>Fall Semester</b>		
IT 4400	Network Design & Management	3
IT 4510	Ethical Hacking & Network Defense	3
General Elective		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
<b>Spring Semester</b>		
IT 4600	Senior Project	3
IT Elective		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