

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

The Bachelor of Science in Computer & Information Technology with an emphasis in Information Technology has four basic components:

1. General Education & Institutional Requirements
2. Core Discipline Requirements
3. Discipline Elective Requirements
4. Electives: college-level courses from any prefix to meet Graduation Requirements (p. 2)

## Institutional Requirement in Computer Literacy

The DSU Computer Literacy requirement is fulfilled by successfully completing the Computer Science Core Requirement courses CS 1400 Fundamentals of Programming and CS 1410 Object Oriented Programming.

## DSU General Education & Institutional Requirements

All DSU General Education and Institutional 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>Institutional Requirement in Computer Literacy</b> (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		
	Computer Literacy	0-6
<b>General Education Core Requirements</b> (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		
	English	3-7
	Information Literacy	0-1
	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
	Two (2) Global & Cultural Perspectives Courses	0-6
<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 4200	Advanced Web Delivery	3
IT 4300	Database Design & Management	3
IT 4400	Network Design & Management	3
IT 4500	Information Security	3
IT 4600	Senior Project	3
WEB 1400	Web Design I: Fundamentals	3
MATH 1100	Business Calculus	3
or MATH 1210	Calculus I	

**Discipline Elective Requirements**

Complete 24 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 1300	Design I	3
DES 2300	Design II	3
DES 2600	Creative Imaging	3
DES 2800	Digital Publishing	3
IT 3300	Virtualization	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
MKTG 3010	Marketing Principles	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 this 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>		
IT 1100	Introduction to Unix/Linux	3
MATH 1100	Business Calculus meets General Education (Mathematics) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)	3
ENGL 1010 or ENGL 1010D	Introduction to Writing or Introduction to Writing	3

LIB 1010	Information Literacy	1
WEB 1400	Web Design I: Fundamentals	3
Hours		13
<b>Spring Semester</b>		
CS 1400	Fundamentals of Programming ( CS 1400 & CS 1410 meet Computer Literacy (catalog.dixie.edu/programs/generaleducation/#gerequirementstext))	3
ENGL 2010	Intern Writing Selected Topics:	3
IT 1200	A+ Computer Hardware/Windows OS	3
IT 2400	Intro to Networking	3
General Education (Social & Behavioral Sciences) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
Hours		15
<b>2nd Year</b>		
<b>Fall Semester</b>		
CS 1410	Object Oriented Programming ( CS 1400 & CS 1410 meets Computer Literacy (catalog.dixie.edu/programs/generaleducation/#gerequirementstext))	3
IT 3100	Systems Design and Administration I	3
IT Elective		3
General Education (American Institutions) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
General Education (Fine Arts) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
Hours		15
<b>Spring Semester</b>		
IT 3110	Systems Design and Administration II	3
IT 3150	Windows Servers	3
IT Elective		3
IT Elective		3
General Education (Literature / Humanities) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
Hours		15
<b>3rd Year</b>		
<b>Fall Semester</b>		
IT 4200	Advanced Web Delivery	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
Hours		16
<b>Spring Semester</b>		
ENGL 3010	Writing in the Professions	3
IT 4500	Information Security	3
IT Elective: Upper Division		3
IT Elective: Upper Division		3
General Education (Exploration) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
Hours		15
<b>4th Year</b>		
<b>Fall Semester</b>		
IT 4400	Network Design & Management	3
IT Elective: Upper Division		3
General Education (Global & Cultural Perspectives) (catalog.dixie.edu/programs/generaleducation/#gerequirementstext)		3
General Elective		3
General Elective		3
Upper Division Elective		1
Hours		16

**Spring Semester**

IT 4600	Senior Project	3
IT Elective: Upper Division		3
General Elective		3
General Elective		3
General Education (Global & Cultural Perspectives) ( <a href="http://catalog.dixie.edu/programs/generaleducation/#gerequirementstext">catalog.dixie.edu/programs/generaleducation/#gerequirementstext</a> )		3
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	Hours	15
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	Total Hours	120