

## Information Technology - Computer Forensics and Security Emphasis, B.S.

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### Requirements

Electronic data is often used as evidence in court. Forensic specialists learn how to identify, preserve, and extract data from electronic devices, such as computers and smart phones. The Bachelor of Science in Information Technology (IT) degree prepares students to install, manage, and maintain the computing infrastructure on which organizational systems run. The Computer Forensics and Security emphasis provides students with a solid foundation for employment by government or corporate sector to work in a computer forensics lab as a forensic analyst or in information security.

### Total Program Credits: 122

General Education Requirements:		38 Credits
	<a href="#">ENGL 1010</a> Introduction to Academic Writing	3
or	<a href="#">ENGL 1005</a> Literacies and Composition Across Contexts (5)	
	<a href="#">ENGL 2010</a> Intermediate Writing Academic Writing and Research	3
	<a href="#">MATH 1050</a> College Algebra	4
or	<a href="#">MATH 1055</a> College Algebra with Preliminaries (5)	
Complete one of the following:		3
	<a href="#">HIST 2700</a> US History to 1877 (3)	
and	<a href="#">HIST 2710</a> US History since 1877 (3)	
	<a href="#">HIST 1700</a> American Civilization (3)	
	<a href="#">HIST 1740</a> US Economic History (3)	
	<a href="#">POLS 1000</a> American Heritage (3) (recommended)	
	<a href="#">POLS 1100</a> American National Government (3)	
Complete the following:		
	<a href="#">PHIL 2050</a> Ethics and Values	3
	<a href="#">HLTH 1100</a> Personal Health and Wellness	2
or	<a href="#">EXSC 1097</a> Fitness for Life (2)	
Distribution Courses:		
	Biology Distribution	3
	Physical Science Distribution	3
	<a href="#">PHYS 2010</a> College Physics I	4
and	<a href="#">PHYS 2015</a> College Physics I Lab (fulfills Additional Biology or Physical Science Distribution)	1
	Fine Arts Distribution	3
	<a href="#">ENGL 2100</a> Technical Communication WE (fulfills Humanities Distribution)	3
	<a href="#">CJ 1010</a> Introduction to Criminal Justice (Social/Behavioral Science Distribution)	3
Discipline Core Requirements:		63 Credits
Math Requirement:		
	<a href="#">STAT 2050</a> Introduction to Statistical Methods (4)	
or	<a href="#">MGMT 2340</a> Business Statistics I	3

IT Core Requirements:		
	<a href="#">INFO 1120</a> Information Systems and Technology Fundamentals	3
	<a href="#">INFO 1200</a> Computer Programming I for IS/IT	3
	<a href="#">IT 1510</a> Introduction to System Administration--Linux/UNIX	3
	<a href="#">IT 1600</a> Computer Architecture and Systems Software	3
	<a href="#">INFO 2410</a> Database Fundamentals	3
	<a href="#">IT 2530</a> Introduction to System Administration--Windows Client	3
	<a href="#">IT 2600</a> Data Communication Fundamentals	3
or	<a href="#">CS 2600</a> Computer Networks I (3)	
	<a href="#">IT 2700</a> Information Security Fundamentals	3
	<a href="#">INFO 3300</a> Web Systems Development	3
	<a href="#">INFO 3430</a> Systems Analysis and Design WE	3
	<a href="#">IT 3510</a> Advanced System Administration--Linux/UNIX	3
	<a href="#">IT 3530</a> Advanced System Administration--Windows Server	3
	<a href="#">IT 3600</a> Internetworking and Router Management	3
	<a href="#">IT 3700</a> Information Security--Network Defense and Countermeasures	3
	<a href="#">INFO 405G</a> Global Ethical and Professional Perspectives in IS and IT WE	3
	<a href="#">INFO 4430</a> Systems Design and Implementation	3
	<a href="#">IT 4600</a> Enterprise Network Architectures and Administration	3
	<a href="#">IT 4700</a> Enterprise Cybersecurity Management	3
IT Application Domain Requirement:		6
Two specified courses to provide students with knowledge of an application domain of their choice and interest. (See department advisor for list of approved courses.) For the Computer Forensics and Security emphasis, the following 2 courses are required: CJ 1330 Criminal Law and CJ 1340 Criminal Investigations.		
Some possible application domains are:		
	Accounting/IT Auditor	
	Business	
	Communications	
	Computer Science	
	Construction	
	Criminal Justice (Choose this domain for Computer Forensics and Security emphasis)	
	Forensics	
	Geographic Information Systems	
	Health professions	
	Hospitality Management	
	Manufacturing/Production	
	Military Science	
	Multimedia/Digital Media	

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	Physical Sciences	
	Social Sciences	
Emphasis Requirements:		12 Credits
IT 2800	Computer Forensic Fundamentals	3
IT 3350	Intellectual Property and Cyber Law	3
IT 4800	Advanced Mobile Devices Forensics	3
IT 4850	Digital Forensics Investigations	3
Emphasis Elective Requirements:		9 Credits
Select 9 credit hours from the following:		9
INFO 2200	Computer Programming II for IS IT (3.0)	
INFO 3330	Client-Side Web Development (3.0)	
INFO 3360	Server-Side Web Frameworks (3.0)	
INFO 3410	Database Systems and Warehousing (3.0)	
INFO 4135	Data Security Analytics (3.0)	
INFO 4415	Database Security and Auditing (3.0)	
INFO 4425	Web Application Security (3.0)	
IT 1200	Scripting for Administrators (3.0)	
IT 3540	Mac OS and Server Support (3.0)	
IT 459R	Current Topics in Information Technology (3.0)	
IT 4750	Network Security and Operations Capstone (3.0)	
IT 481R	Internship (1.0)	
CS 3270	Python Software Development (3.0)	
Other approved upper-division Information Technology and Information Systems courses		

### **Graduation Requirements:**

1. Completion of at least 122 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Completion of GE global intercultural requirement. INFO 405G Global Ethical and Professional Perspectives in IS and IT GI WE satisfies this requirement.
6. Successful completion of at least one Global/Intercultural course.

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**Graduation Plan**

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
<i>ENGL 1010</i>	Introduction to Writing	3
<i>MATH 1050 or MATH 1055</i>	College Algebra or College Algebra with Preliminaries	4
<i>INFO 1120</i>	Information Systems and Technology Fundamentals	3
<i>CJ 1010</i>	Introduction to Criminal Justice	3
<i>IT 1600</i>	Computer Architecture and Systems Software	3
	Semester Total:	16
Semester 2	Course Title	Credit Hours
ENGL 2010	Intermediate Writing	3
<i>INFO 1200</i>	Computer Programming I for IS IT	3
<i>IT 2600</i>	Data Communication Fundamentals	3
<i>IT 1510</i>	Introduction to System Administration--Linux/UNIX	3
<i>ENGL 2100 OR ENGL 2310</i>	Technical Communication	3
	Semester Total:	15
Semester 3	Course Title	Credit Hours
MGMT 2340	Business Statistics I	3
<i>IT 2530</i>	Introduction to System Administration--Windows Client	3
<i>IT 2700</i>	Information Security Fundamentals	3
INFO 3300	Web Systems Development	3
<i>INFO 3430</i>	Systems Analysis and Design WE	3
	Semester Total:	15
Semester 4	Course Title	Credit Hours
INFO 4430	Systems Design and Implementation	3
<i>IT 3510</i>	Advanced System Administration--Linux/UNIX	3
<i>IT 3530</i>	Advanced System Administration--Windows Server	3
<i>IT 2800</i>	Computer Forensic Fundamentals	3
<i>IT 3600</i>	Internetworking and Router Management	3
	Semester Total:	15
Semester 5	Course Title	Credit Hours

Elective		3
CJ 1330	Criminal Law	3
CJ 1340	Criminal Investigations	3
IT 4800	Advanced Mobile Devices Forensics	3
IT 3700	Information Security--Network Defense and Countermeasures	3
	Semester Total:	15
Semester 6	Course Title	Credit Hours
IT 3350	Intellectual Property and Cyber Law	3
IT 4600	Enterprise Network Architectures and Administration	3
IT 4700	Enterprise Cybersecurity Management	3
INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
IT 4850	Digital Forensics Investigations	3
	Semester Total:	15
Semester 7	Course Title	Credit Hours
Elective		3
PHYS 2015	College Physics I Lab	1
PHYS 2010	College Physics I	4
Elective		3
Fine Arts Distribution		3
HLTH 1100 or EXSC 1097		2
	Semester Total:	16
Semester 8	Course Title	Credit Hours
American Institutions		3
Humanities Distribution		3
Social/Behavioral Science Distribution		3
Third Science Distribution		3
Physical Science Distribution		3
	Semester Total:	15
	Degree total:	122