

## Information Systems - Information Security Management Emphasis, B.S.

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### Requirements

Managing the security of information systems is extremely important for all types of organizations to protect the systems from data breaches. The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. The Information Security Management (ISM) emphasis prepares students for information technology management and information security analyst positions.

### Total Program Credits: 123

General Education Requirements:		36 Credits
	<a href="#">ENGL 1010</a> Introduction to Academic Writing	3
or	<a href="#">ENGH 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)	4
or	<a href="#">MATH 1055</a> College Algebra with Preliminaries (5)	
American Institutions: 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)	
	<a href="#">POLS 1100</a> American National Government (3)	
Complete the following:		
	<a href="#">PHIL 2050</a> Ethics and Values (3)	3
	<a href="#">HLTH 1100</a> Personal Health and Wellness (2)	2
or	<a href="#">EXSC 1097</a> Fitness for Life (2)	
Distribution Courses:		
	Biology Distribution	3
	Physical Science Distribution	3
	An Additional Biology or Physical Science Distribution Course	3
	Fine Arts Distribution	3
	Humanities Distribution	3
	Social/Behavioral Science Distribution <sup>1</sup>	3
Discipline Core Requirements:		63 Credits
Math Requirement:		3
	<a href="#">MGMT 2340</a> Business Statistics I (3)	
IS 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
or	<a href="#">CS 1400</a> Fundamentals of Programming (3)	

<a href="#">INFO 2200</a>	Computer Programming II for IS/IT	3
<a href="#">INFO 2410</a>	Database Fundamentals	3
<a href="#">INFO 2420</a>	Web Application Design	3
<a href="#">IM 2600</a>	Spreadsheet Applications	3
<a href="#">IT 1510</a>	Introduction to System Administration--Linux/UNIX	3
<a href="#">IT 2600</a>	Data Communication Fundamentals	3
<a href="#">IT 2700</a>	Information Security Fundamentals	3
<a href="#">INFO 3130</a>	Introduction to Applied Data Analytics	3
<a href="#">INFO 3300</a>	Web Systems Development	3
<a href="#">INFO 3410</a>	Database Systems and Warehousing	3
<a href="#">INFO 3430</a>	Systems Analysis and Design WE	3
<a href="#">INFO 405G</a>	Global Ethical and Professional Perspectives in IS and IT	3
<a href="#">INFO 4430</a>	Systems Design and Implementation	3
IS Environment/Business Foundation Requirements:		
<a href="#">ACC 2010</a>	Financial Accounting	3
<a href="#">ACC 2020</a>	Managerial Accounting	3
<a href="#">MKTG 220G</a>	Written Business Communication WE	3
<a href="#">MGMT 3000</a>	Organizational Behavior WE	3
<a href="#">MKTG 3600</a>	Principles of Marketing	3
<sup>1</sup> ECON 2010 Principles of Economics I recommended.		
Emphasis Requirements:		15 Credits
<a href="#">INFO 4410</a>	Database Administration	3
<a href="#">INFO 4135</a>	Data Security Analytics	3
<a href="#">INFO 4415</a>	Database Security and Auditing	3
<a href="#">INFO 4425</a>	Web Application Security	3
<a href="#">IT 4700</a>	Enterprise Cybersecurity Management	3
Emphasis Elective Requirements:		9 Credits
Choose 9 credit hours from the following advanced upper-division courses:		9
<a href="#">IT 3350</a>	Intellectual Property and Cyber Law (3)	
<a href="#">IT 4750</a>	Network Security and Operations Capstone (3)	
<a href="#">INFO 3330</a>	Client-Side Web Development (3)	
<a href="#">INFO 3360</a>	Server-Side Web Framework(3)	
<a href="#">INFO 4300</a>	Enterprise Web Development (3)	
<a href="#">INFO 481R</a>	Internship (3)	
Other approved upper-division Information Systems courses		

### Graduation Requirements:

1. Completion of at least 123 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.

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4. Completion of GE and specified departmental requirements.  
Students are responsible for completing all prerequisite courses.
5. 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
INFO 1120	Information Systems and Technology Fundamentals	3
<i>INFO 2410</i>	Database Fundamentals	3
HLTH 1100 or EXSC 1097		2
	Semester Total:	15
Semester 2	Course Title	Credit Hours
<i>ENGL 2010</i>	Intermediate Writing	3
<i>INFO 1200</i>	Computer Programming I for IS/IT	3
<i>INFO 2420</i>	Web Application Design	3
<i>ACC 2010</i>	Financial Accounting	3
IT 1510	Intro to System Administration-Linux/UNIX	3
	Semester Total:	15
Semester 3	Course Title	Credit Hours
<i>MGMT 2340</i>	Business Statistics I	3
IM 2600	Spreadsheet Applications	3
INFO 2200	Computer Programming II for IS/IT	3
ACC 2020	Managerial Accounting	3
<i>IT 2600</i>	Data Communication Fundamentals	3
	Semester Total:	15
Semester 4	Course Title	Credit Hours
<i>IT 2700</i>	Information Security Fundamentals	3
<i>INFO 3300</i>	Web Systems Development	3
<i>INFO 3410</i>	Database Systems and Warehousing	3
INFO 3130	Introduction to Applied Data Analytics	3
<i>MKTG 220G</i>	Written Business Communication WE	3
	Semester Total:	15
Semester 5	Course Title	Credit Hours
INFO 4415	Database Security and Auditing	3
Third Science Distribution		3
INFO 4425	Web Application Security	3
Elective		3

Biology Distribution		3
PHIL 2050	Ethics and Values	3
	Semester Total:	18
Semester 6	Course Title	Credit Hours
INFO 4135	Data Security Analytics	3
INFO 4410	Database Administration	3
MKTG 3600	Principles of Marketing	3
<i>INFO 3430</i>	Systems Analysis and Design WE	3
Elective		3
	Semester Total:	15
Semester 7	Course Title	Credit Hours
IT 4700	Enterprise Cybersecurity Management	3
MGMT 3000	Organizational Behavior WE	3
INFO 4430	Systems Design and Implementation	3
INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
Elective		3
	Semester Total:	15
Semester 8	Course Title	Credit Hours
American Institutions		3
Humanities Distribution		3
Fine Arts Distribution		3
Social/Behavioral Science Distribution Physical Science Distribution		3
Physical Science Distribution		3
	Semester Total:	15
	Degree total:	123