

## 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 CC	3
or	<a href="#">ENGL 1005</a> Literacies and Composition Across Contexts CC (5)	
	<a href="#">ENGL 2010</a> Intermediate Academic Writing CC	3
	<a href="#">MATH 1050</a> College Algebra QL (4)	4
or	<a href="#">MATH 1055</a> College Algebra with Preliminaries QL (5)	
American Institutions: Complete one of the following:		3
	<a href="#">HIST 2700</a> US History to 1877 AS (3)	
and	<a href="#">HIST 2710</a> US History since 1877 AS (3)	
	<a href="#">HIST 1700</a> American Civilization AS (3)	
	<a href="#">HIST 1740</a> US Economic History AS (3)	
	<a href="#">POLS 1000</a> American Heritage SS (3)	
	<a href="#">POLS 1100</a> American National Government AS (3)	
Complete the following:		
	<a href="#">PHIL 2050</a> Ethics and Values IH (3)	3
	<a href="#">HLTH 1100</a> Personal Health and Wellness TE (2)	2
or	<a href="#">EXSC 1097</a> Fitness for Life TE (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:		
	<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 GI WE	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 GI WE	3
<a href="#">MGMT 3000</a>	Organizational Behavior WE	3
<a href="#">MKTG 3600</a>	Principles of Marketing	3
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 and 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>	Information Technology 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		
<b>Notes:</b>		
1. ECON 2010 Principles of Economics I recommended.		

### 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-."

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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. 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](#).

Semester 1	Course Title	Credit Hours
ENGL 1010	Introduction to Academic Writing CC	3
MATH 1050 or MATH 1055	College Algebra QL or College Algebra with Preliminaries QL	4
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
Social/Behavioral Science Distribution		3
INFO 1120	Information Systems and Technology Fundamentals	3
Semester Total:		15
Semester 2	Course Title	Credit Hours
ENGL 2010	Intermediate Academic Writing CC	3
Biology Distribution		3
INFO 1200	Computer Programming I for IS IT	3
INFO 2420	Web Application Design	3
IM 2600	Spreadsheet Applications	3
ACC 2010	Financial Accounting	3
Semester Total:		18
Semester 3	Course Title	Credit Hours
MGMT 2340	Business Statistics I	3
IT 2600	Data Communication Fundamentals	3
INFO 2200	Computer Programming II for IS IT	3
INFO 2410	Database Fundamentals	3
MKTG 220G	Written Business Communication GI WE	3
Semester Total:		15
Semester 4	Course Title	Credit Hours
PHIL 2050 or PHIL 205G	Ethics and Values IH GI	3
Fine Arts Distribution		3
IT 2700	Information Security Fundamentals	3
INFO 3130	Introduction to Applied Data Analytics	3
ACC 2020	Managerial Accounting	3
Semester Total:		15
Semester 5	Course Title	Credit Hours
American Institutions		3
Physical Science Distribution		3
INFO 3410	Database Systems and Warehousing	3
INFO 3300	Web Systems Development	3

IT 1510	Introduction to System Administration--Linux/UNIX	3
Semester Total:		15
Semester 6	Course Title	Credit Hours
Third Science Distribution		3
Humanities Distribution		3
MKTG 3600	Principles of Marketing	3
INFO 4410	Database Administration	3
Elective		3
Semester Total:		15
Semester 7	Course Title	Credit Hours
INFO 3430	Systems Analysis and Design WE	3
INFO 4135	Data Security Analytics	3
MGMT 3000	Organizational Behavior WE	3
IT 4700	Enterprise Cybersecurity Management	3
Elective		3
Semester Total:		15
Semester 8	Course Title	Credit Hours
INFO 405G	Global Ethical and Professional Perspectives in IS and IT GI WE	3
INFO 4415	Database Security and Auditing	3
INFO 4425	Web and Application Security	3
INFO 4430	Systems Design and Implementation	3
Elective		3
Semester Total:		15
Degree total:		123