

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

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: 124

General Education Requirements:		36 Credits	
	ENGL 1010	Introduction to Writing (3.0)	3
	ENGL 2010	Intermediate Writing--Humanities/Social Sciences (3.0)	3
or	ENGL 2020	Intermediate Writing--Science and Technology (3.0)	
	MATH 1050	College Algebra (4.0)	4
or	MATH 1055	College Algebra with Preliminaries (5.0)	
American Institutions: Complete one of the following:		3	
	HIST 2700	US History to 1877 (3.0)	
and	HIST 2710	US History since 1877 (3.0)	
	HIST 1700	American Civilization (3.0)	
	HIST 1740	US Economic History (3.0)	
	POLS 1000	American Heritage (3.0)	
	POLS 1100	American National Government (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values (3.0)	3
	HLTH 1100	Personal Health and Wellness (2.0)	2
or	PES 1097	Fitness for Life (2.0)	
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 (ECON 2020 recommended)		3
Discipline Core Requirements:		67 Credits	
Math Requirement:		3	
	MGMT 2340	Business Statistics I (3.0)	
IS Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS/IT	3
	INFO 2200	Computer Programming II for IS/IT	3
	INFO 2410	Database Fundamentals	3
	INFO 2420	Web Application Design	3
	IM 2600	Spreadsheet Applications	3
	IT 2600	Data Communication Fundamentals	3

IT 2700	Information Security Fundamentals	3
COMP 301R	Digital Lecture Series (1.0)	1
INFO 3130	Introduction to Applied Data Analytics	3
INFO 3410	Database Systems and Warehousing	3
INFO 3420	Web Systems Development	3
INFO 3430	Systems Analysis and Design	3
INFO 3700	Health Informatics Fundamentals	3
INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
INFO 4430	Systems Design and Implementation	3
INFO 4440	Enterprise Computing Environments	3
IS Environment/Business Foundation Requirements:		
ACC 2010	Financial Accounting	3
ACC 2020	Managerial Accounting	3
MKTG 2200	Business Communication	3
MGMT 3000	Organizational Behavior	3
MKTG 3600	Principles of Marketing	3
Emphasis Requirements:		15 Credits
INFO 4410	Database Administration	3
INFO 4135	Data Security Analytics	3
INFO 4415	Database Security and Auditing	3
INFO 4425	Web Application Security	3
IT 4700	Enterprise Information Security Management	3
Emphasis Elective Requirements:		6 Credits
Choose 6 credit hours from the following advanced upper-division courses:		6
IT 3350	Intellectual Property and Cyber Law (3.0)	
IT 4750	Network Security and Operations Capstone (strongly recommended) (3.0)	
INFO 3426	Web Content Management Systems Site Development (3.0)	
INFO 4700	Healthcare Information Systems Management (3.0)	
Other approved upper-division Information Systems courses		

Graduation Requirements:

1. Completion of at least 124 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. Successful completion of at least one Global/Intercultural course.

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Information Systems - Information Security Management Emphasis, B.S. 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
HLTH 1100 or PES 1097	Personal Health and Wellness or Fitness for life	2
Fine Arts Distribution		3
<i>INFO 1120</i>	Information Systems and Technology Fundamentals	3
Semester total:		15
Notes: Take INFO 1120 first or second semester.		
Semester 2	Course Title	Credit Hours
<i>ENGL 2010 or ENGL 2020</i>	Intermediate Writing	3
Biology Distribution		3
<i>INFO 1200</i>	Computer Programming I for IS/IT	3
<i>INFO 2420</i>	Web Application Design	3
<i>IM 2600</i>	Spreadsheet Applications	3
<i>ACC 2010</i>	Financial Accounting	3
Semester total:		18
Notes: (1) Must take INFO 1200 before taking INFO 2200 next semester. (2) Must take ACC 2010 before taking ACC 2020 next semester or the following semester.		
Semester 3	Course Title	Credit Hours
MGMT 2340	Business Statistics I	3
INFO 2200	Computer Programming II for IS/IT	3
<i>INFO 2410</i>	Database Fundamentals	3
<i>IT 2600</i>	Data Communication Fundamentals	3
<i>MKTG 2200</i>	Written Business Communication	3
Semester total:		15
Notes: (1) Must take IT 2600 before taking IT 2700 next semester. (2) Must take MGMT 2340 before taking INFO 3130 next semester. (3) Must take MKTG 2200 before taking		
Semester 4	Course Title	Credit Hours
ECON 2020	Microeconomics (fulfills Social/Behavioral Science Distribution)	3
<i>IT 2700</i>	Information Security Fundamentals	3
INFO 3130	Intro to Applied Data Analytics	3
ACC 2020	Managerial Accounting	3
MGMT 3000	Organizational Behavior	3

Semester total:		15
Notes: (1) Must take IT 2700 before taking INFO 4135 next semester. (2) Recommended to take INFO 3130 before taking INFO 4135 next semester.		
Semester 5	Course Title	Credit Hours
PHIL 2050	Ethics and Values	3
Physical Science Distribution		3
COMP 301R	Digital Lecture Series	1
<i>INFO 3420</i>	Web Systems Development	3
INFO 3700	Health Informatics Fundamentals	3
<i>INFO 4135</i>	Data Security Analytics	3
Semester total:		16
Notes: (1) Must take INFO 3420 this semester or concurrently with INFO 4425 next semester. (2) INFO 4135 is offered Fall semesters only.		
Semester 6	Course Title	Credit Hours
Additional Biology or Physical Science Distribution		3
Humanities Distribution		3
<i>INFO 3410</i>	Database Systems & Warehousing	3
INFO 4425	Web Application Security	3
MKTG 3600	Principles of Marketing	3
Semester total:		15
Notes: INFO 4425 is offered Spring semesters only.		
Semester 7	Course Title	Credit Hours
<i>INFO 3430</i>	Systems Analysis and Design	3
INFO 405G	Global Ethical and Professional Perspectives in IS and IT	3
INFO 4410	Database Administration	3
IT 4700	Enterprise Information Security Management	3
Elective		3
Semester total:		15
Notes: (1) INFO 4410 is offered Fall and Spring semesters as long as sufficient demand exists; otherwise it will be offered Fall semester only. (2) Take INFO 3430 this semester to be able to take INFO 4430 next semester. (3) INFO 3430 and INFO 4430 should be taken in two consecutive semesters. (4) Take IT 4700 this semester to be able to take elective IT 4750 next semester. (5) Elective IT 3350 is offered Fall and Summer semesters only. (6) Elective INFO 4700 is offered Fall semesters only.		
Semester 8	Course Title	Credit Hours
American Institutions		3
INFO 4430	Systems Design and Implementation	3
INFO 4415	Database Security and Auditing	3
INFO 4440	Enterprise Computing Environments	3
Elective	Recommended IT 4750	3
Semester total:		15
Notes: (1) INFO 4430 should be taken semester immediately after taking INFO 3430. (2) INFO 4415 is offered Spring semesters only. (3) Elective INFO 3426 is offered Spring semesters only. (4) Elective IT 4750 is offered Fall and Spring semesters.		
Degree total:		124