Information Technology - Network Administration and Security Emphasis, B.S.

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Requirements

Every organization uses some form of information technology to perform its operations. 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 Network Administration and Security emphasis prepares students to work as data communication consultants, information security analysts, and network administrators. The core of the BS IT program prepares students to have a strong foundation in computer architecture, data communication, information security, networks, and system administration.

Total Program Credits: 122

Gen	General Education Requirements:		38 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGH 1005	Literacies and Composition Across Contexts CC (5)	
	ENGL 2010	Intermediate Academic Writing CC	3
	MATH 1050	College Algebra QL	4
or	MATH 1055	College Algebra with Preliminaries QL (5)	
Com	plete one of the	ne following:	3
	HIST 2700	US History to 1877 AS (3.0)	
and	HIST 2710	US History since 1877 AS (3.0)	
	HIST 1700	American Civilization AS (3.0)	
	HIST 1740	US Economic History AS (3.0)	
	POLS 1000	American Heritage SS (3.0) (recommended for Forensics emphasis)	
	POLS 1100	American National Government AS (3.0)	
Com	plete the follo	wing:	
	PHIL 2050	Ethics and Values IH	3
	HLTH 1100	Personal Health and Wellness TE	2
or	EXSC 1097	Fitness for Life TE (2)	
Distr	ibution Course	es:	
	Biology Distri	bution	3
	Physical Scie	nce Distribution	3
	PHYS 2010	College Physics I PP	4
and	PHYS 2015	College Physics I Lab (fulfills Additional Biology or Physical Science Distribution)	1
	Fine Arts Distribution		3
	ENGL 2100	Technical Communication HH WE	3
	Social/Behavioral Science Distribution ¹		3
Discipline Core Requirements:			69 Credits
Math	n Reguirement	<u> </u>	

	CS 2300	Discrete Mathematical Structures I	3		
	STAT 2050	Introduction to Statistical Methods	3		
or	MGMT 2340	Business Statistics I			
IT C	Core Requirem	ents:			
	INFO 1120	Information Systems and Technology Fundamentals	3		
	INFO 1200	Computer Programming I for IS IT	3		
	IT 1510	Introduction to System Administration Linux/UNIX	3		
	IT 1600	Computer Architecture and Systems Software	3		
	INFO 2200	Computer Programming II for IS IT	3		
	INFO 2410	Database Fundamentals	3		
	IT 2530	Introduction to System Administration Windows Client	3		
	IT 2600	Data Communication Fundamentals	3		
or	CS 2600	Computer Networks I (3)			
	IT 2700	Information Security Fundamentals	3		
	INFO 3300	Web Systems Development	3		
	INFO 3430	Systems Analysis and Design WE	3		
	IT 3510	Advanced System Administration Linux/UNIX	3		
	IT 3530	Advanced System Administration Windows Server	3		
	IT 3600	Internetworking and Router Management	3		
	IT 3700	Ethical Hacking and Countermeasures	3		
	INFO 405G	Global Ethical and Professional Perspectives in IS and IT GI WE	3		
	IT 4600	Enterprise Network Architectures and Administration	3		
	IT 4700	Enterprise Information Security Management	3		
	IT 4750	Information Technology Operations Capstone	3		
IT A	pplication Don	nain Requirement:	6		
of a	n application d	rses to provide students with knowledge lomain of their choice and interest. (See or for list of approved courses.) ²			
Son	ne possible ap	plication domains are:			
	Accounting/I7	Γ Auditor			
	Business	•			
	Communicati	ons			
	Computer Sc	ience			
	Construction				
	Criminal Justice (Choose this domain for Computer Forensics and Security emphasis)				
	Forensics				
	Geographic I	Geographic Information Systems			
	Health profes				
	Hospitality Management				

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I	Manufacturin	g/Production	
1	Military Scien		
1	Multimedia/D		
1	Physical Scie		
:	Social Scienc		
Emphasis Requirements:		6 Credits	
	IT 2400	Voice and Data Cabling Fundamentals	3
	INFO 4425	Web Application Security	3
Emph	Emphasis Elective Requirements:		
	olete 9 credit 100 or higher)	hours from the following (6 credits must	9
	INFO 3330	Client-Side Web Development (3)	
1	INFO 3360	Server-Side Web Frameworks (3)	
	INFO 3410	Database Systems and Warehousing (3)	
1	INFO 4135	Data Security Analytics (3)	
	INFO 4410	Database Administration (3)	
	INFO 4415	Database Security and Auditing (3)	
	INFO 459R	Current Topics in Information Systems (3)	
	IT 3350	Intellectual Property and Cyber Law (3)	
	IT 3540	Mac OS and Server Support (3)	
	IT 459R	Current Topics in Information Technology (3)	
	IT 481R	Internship (1-8)	
	CS 3270	Python Software Development (3)	
		ed upper-division Information nd Information Systems courses	

Notes:

- CJ 1010 Introduction to Criminal Justice SS for Forensics emphasis
- For the Computer Forensics and Security emphasis, the following 2 courses are required: CJ 1330 Criminal Law and CJ 1340 Criminal Investigations.

Graduation Requirements:

- Completion of at least 122 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
- 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-."
- Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
- Completion of GE and specified departmental requirements.
 Students are responsible for completing all prerequisite courses.
- Completion of GE global intercultural requirement. INFO 405G satisfies this requirement.
- 6. Successful completion of at least one Global/Intercultural course.
- Successful completion of at least two Writing Enriched (WE) courses.

Information Technology - Network Administration and Security 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.

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
Social/Behavioral Science		3
INFO 1120	Information Systems and Technology Fundamentals	3
IT 1510	Introduction to System Administration- Linux/UNIX	3
	Semester Total:	16
Semester 2	Course Title	Credit Hours
ENGL 2010	Intermediate Academic Writing CC	3
Fine Arts Distrib	ution	3
PHYS 2010	College Physics I PP	4
PHYS 2015	College Physics I Lab	1
INFO 1200	Computer Programming I for IS IT	3
IT 1600	Computer Architecture and Systems Software	3
	Semester Total:	17
Semester 3	Course Title	Credit Hours
MGMT 2340	Business Statistics I	3
PHIL 2050	Ethics and Values IH	3
INFO 2200	Computer Programming II for IS IT	3
INFO 2410	Database Fundamentals	3
IT 2600	Data Communication Fundamentals	3
	Semester Total:	15
Semester 4	Course Title	Credit Hours
HLTH 1100 or EXSC 1097	Personal Health and Wellness TE or Fitness for Life TE	2
INFO 3300	Web Systems Development	3
IT 2400	Voice and Data Cabling Fundamentals	3
IT 2530	Introduction to System Administration- Windows Client	3
IT 2700	Information Security Fundamentals	3
	Semester Total:	14
Semester 5	Course Title	Credit Hours
Biology Distribution		
ENGL 2100	Technical Communication HH WE	3
CS 2300	Discrete Mathematical Structures I	3

IT 3510	Advanced System Administration-Linux/ UNIX	3
IT 3600	Internetworking and Router Management	3
	Semester Total:	15
Semester 6	Course Title	Credit Hours
Physical Science	e Distribution	3
IT Application D	omain	3
IT 3530	Advanced System Administration-Windows Server	3
IT 3700	Ethical Hacking and Countermeasures	3
IT 4600	Enterprise Network Architectures and Administration	3
	Semester Total:	15
Semester 7	Course Title	Credit Hours
American Institu	itions	3
IT Application Domain		3
INFO 3430	Systems Analysis and Design WE	3
IT 4700	Enterprise Cybersecurity Management	3
Emphasis Elective		3
	Semester Total:	14
Semester 8	Course Title	Credit Hours
INFO 405G	Global Ethical and Professional Perspectives in IS and IT GI WE	3
INFO 4425	Web and Application Security	3
IT 4750	Network Security and Operations Capstone	3
Emphasis Elect	Emphasis Elective	
Emphasis Elective		3
	Semester Total:	15
	Degree total:	122