Information Systems and Technology

Information Systems and Technology

The Information Systems and Technology department is in the Scott M. Smith College of Engineering. To find the most up-to-date information, including Program Learning Outcomes for degree programs offered by the Information Systems and Technology department, visit their website.

Information Systems and Technology department

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FACULTY

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Degrees & Programs

Administrative Information Management, A.S.

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Requirements

The two-year pre-major AS in Administrative Information Management program provides training for students seeking to complete general education requirements and develop their skills and knowledge in basic computer applications, written business communication, and financial accounting. Graduates of this program obtain temporary employment and pursue a Bachelor's degree for more advanced training in Information Management.

Total Program Credits: 60

General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGH 1005	Literacies and Composition Across Context CC (5)	
	ENGL 2010	Intermediate Academic Writing CC	3
	MATH 1050	College Algebra QL	4

or	MATH 1055	College Algebra with Preliminaries QL (5)	
Complete one of the following:			3
	HIST 2700	US History to 1877 AS (3)	
and	HIST 2710	US History since 1877 AS (3)	
	HIST 1700	American Civilization AS (3)	
	HIST 1740	US Economic History AS (3)	
	POLS 1000	American Heritage SS (3)	
	POLS 1100	American National Government AS (3)	
Complete the following:			
	PHIL 2050	Ethics and Values IH	3
	HLTH 1100	Personal Health and Wellness TE (2)	
or	EXSC 1097	Fitness for Life TE	2
Distribution Courses:			
	ECON 2020	Principles of Economics II SS	3
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution	3
		Fine Arts Distribution	3
Discipline Core Requirements:			21 Credits
	IM 1010	Basic Computer Applications	3
	IM 2300	Information Management Principles	3
	IM 2500	Graphic Applications	3
	IM 2600	Spreadsheet Applications	3
	INFO 2420	Web Application Design	3
	ACC 2010	Financial Accounting	3
	MKTG 220G	Written Business Communication WE	3
Elective Requirements:			3 Credits
		Complete 3 credits from department pre-approved electives; see advisor for more information.	3
	ACC 1150	Fundamentals of Business Math (3)	
	IM 2100	Document Processing Applications (3)	
	INFO 1120	Information Systems and Technology Fundamentals (3)	
	INFO 1200	Computer Programming I for IS IT (3)	
	MGMT 2110	Interpersonal Communication SS (3)	

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline and elective courses with no grade lower than a C-.
3. Residency hours--minimum of 20 credit hours through attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Administrative Information Management, A.S.
Careers

1. An ability to explain information and project management concepts in written and verbal forms

2. Recognition of the need for continued interest in maintaining and updating technical skills required by business and industry
3. Ability to analyze problems and use appropriate skills and technology to reach solutions

Related Careers

* Data Entry Keyers

Administrative Information Support, A.A.S.

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Requirements

Every industry relies heavily on competent, qualified, and professional office staff. The two-year AAS in Administrative Information Support program provides training for students seeking to develop their skills and knowledge of office administration and office systems. The program core focuses on word processing, presentations, graphics, spreadsheet, and database applications, as well as written and oral business communication skills, office procedures, and basic accounting skills.

Total Program Credits: 63

General Education Requirements:			18 Credits
English:			
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGH 1005	Literacies and Composition Across Contexts CC (5)	
Mathematics:			
Complete one of the following:			4
	MAT 1010	Intermediate Algebra (4)	
	MATH 1050	College Algebra QL (4)	
	MATH 1055	College Algebra with Preliminaries QL (5)	
Humanities/Fine Arts/ Foreign Language			
		Any approved Humanities/ Fine Arts/Foreign Language Distribution	3
Social and Behavioral Science (*ECON 2010 or ECON 2020 recommended for students who plan to pursue BS Information Management*)			
		Any approved Social and Behavioral Science Distribution	3
Biology or Physical Science			
		Any approved Biology or Physical Science Distribution	3
Physical Education/Health/Saftey or Environment			
	HLTH 1100	Personal Health and Wellness TE	2

or	EXSC 1097	Fitness for Life TE (2)	
Discipline Core Requirements:			36 Credits
	IM 1010	Basic Computer Applications	3
	IM 2100	Document Processing Applications	3
	IM 2300	Information Management Principles	3
	IM 2500	Graphic Applications	3
	IM 2010	Business Computer Proficiency	3
or	IM 2600	Spreadsheet Applications (3)	
	INFO 1200	Computer Programming I for IS IT	3
	INFO 2420	Web Application Design	3
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	FIN 1060	Personal Finance SS	3
	MKTG 220G	Written Business Communication GI WE	3
	COMM 2110	Interpersonal Communication SS	3
Elective Requirements:			9 Credits
Complete 9 credits from the following department pre-approved electives:			9
	IM 2800	Integrated Software Projects (3)	
	IT 1700	Cybersecurity Essentials (3)	
	ACC 1150	Fundamentals of Business Math (3)	
	MGMT 1200	Business English (3)	
	MGMT 2030	Inclusive Leadership SS (3)	

Graduation Requirements:

1. Minimum 63 credits to graduate.
2. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a C-.

3. A minimum keyboarding skill of 40 net words per minute is required for graduation.
4. Residency hours--minimum of 20 credit hours through attendance at UVU.
5. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Note: Potential 4-year students need to take MATH 1050 College Algebra QL as their MATHEMATICS Distribution.

Administrative Information Support, A.A.S.
Careers

Program Learning Outcomes
1. An ability to explain information and project management concepts in written and verbal forms. 2. Recognition of the need for continued interest in maintaining and updating technical skills required by business and industry. 3. A global perspective on legal and ethical issues surrounding information management and technology. 4. An ability to analyze problems and use appropriate skills and technology to reach solutions.

Related Careers

- Data Entry Keyers

Information Systems and Technology, A.A.S.

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Requirements

The two-year AAS in Information Systems and Technology is designed to help students develop job-ready computer skills to meet today's industry needs. Students complete a foundational core in programming, database, web application design, data communication, and networking. After that, students select a specialization in either Information Systems or Information Technology to complete a focused set of courses to obtain more in-depth knowledge and skills for a variety of computer-related jobs. If planned carefully with an advisor, this program provides a smooth, stackable pathway to the B.S. in Information Systems degree or the B.S. in Information Technology degree at UVU.

Total Program Credits: 63

General Education Requirements:			21 Credits
English:			
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGH 1005	Literacies and Composition Across Contexts CC (5)	
Mathematics:			
	MATH 1050	College Algebra QL	4
or	MATH 1055	College Algebra with Preliminaries QL (5)	
or		Any higher Mathematics Course	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE			
		Any approved Humanities, Fine Arts, or Foreign Language Distribution course. [1]	3
SOCIAL AND BEHAVIORAL SCIENCE [2]			3
	PHIL 2050	Ethics and Value IH	3
BIOLOGY OR PHYSICAL SCIENCE			
		Any approved Biology or Physical Science Distribution Course for BS Information Systems degree future students. [3]	3
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT			
	HLTH 1100	Personal Health and Wellness TE	2
or	EXSC 1097	Fitness for Life TE (2)	
Discipline Core Requirements:			21 Credits
Written Communication Requirement:			
	ENGL 2010	Intermediate Academic Writing CC	3
Math Requirement:			3
	STAT 2050	Introduction to Statistical Methods (4)	
or	MGMT 2340	Business Statistics I (3)	
Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS IT	3
or	CS 1400	Fundamentals of Programming (3)	
	INFO 2410	Database Fundamentals	3
	IT 2600	Data Communication Fundamentals	3
or	CS 2600	Computer Networks I (3)	
	IT 2700	Information Security Fundamentals	3
Elective Requirements:			21 credits
Choose 21 credits from either the Information Systems group or the Information Technology group. See department advisor to select classes if plan to obtain BS in IT degree in the future.			21
INFORMATION SYSTEMS			

	ACC 2010	Financial Accounting (3)	
	ACC 2020	Managerial Accounting (3)	
	IM 2600	Spreadsheet Applications (3)	
	INFO 2200	Computer Programming II for IS IT (3)	
	INFO 2420	Web Application Design (3)	
	IT 1200	Scripting for Administrators (3)	
	MKTG 220G	Written Business Communication GI WE (3)	
INFORMATION TECHNOLOGY			
	INFO 2200	Computer Programming II for IS IT (3)	
	INFO 2420	Web Application Design (3)	
	IT 1200	Scripting for Administrators (3)	
	IT 1510	Introduction to System Administration--Linux/UNIX (3)	
	IT 1600	Computer Architecture and Systems Software (3)	
	IT 2400	Voice and Data Cabling Fundamentals (3)	
	IT 2530	Introduction to System Administration--Windows Client (3)	
	IT 2800	Computer Forensic Fundamentals (3)	
	IT 290R	Current Topics in Information Technology (1-3)	
IT students need to take 6 credits of 1000 or 2000 level IT courses, CJ 1330, or CJ 2350. It is recommended that students take 6 credits in the domain as electives if plan to complete BS in IT degree.[4]			

Graduation Requirements:

1. Completion of a minimum of 63 semester credits.

2. Overall grade point average of 2.0 (C) or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a "C-."
3. Residency hours: minimum of 20 credit hours through attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

footnotes:

1. ENGL 2100 Technical Communication HH WE recommended for BS in Information Technology degree future students.
2. CJ 1010 Introduction to Criminal Justice SS recommended for BS Information Technology degree future students with the Computer Forensics and Security emphasis. ECON 2010 Principals of Economics I SS recommended for BS Information Systems degree future students.
3. PHYS 2010 College Physics I PP and PHYS 2015 College Physics I Lab recommended for BS Information Technology degree future students.
4. If plan to obtain BS in Information Technology with Computer Forensics & Security emphasis, take CJ 1330 Criminal Law and CJ 2350 Laws of Evidence as domain classes.

Information Systems and Technology, A.A.S.
Careers

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Support the delivery, use, and management of information systems within an information systems environment.
5. Apply tools, concepts, and networking techniques to solve business problems.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Computer Systems Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Information Systems and Technology, A.S.

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Requirements

The two-year pre-major AS in Information Systems and Technology program provides training for students seeking to complete general education requirements and develop foundational skills in programming, database, web application design, system administration, computer architecture, data communication, and security. Graduates of this program obtain temporary employment and pursue a Bachelor of Science in Information Systems or Information Technology for more advanced education.

Total Program Credits: 60

General Education Requirements:		36 Credits
ENGL 1010	Introduction to Academic Writing CC	3

or	ENGH 1005	Literacies and Composition Across Context CC (5.0)	
	ENGL 2010	Intermediate Academic Writing CC	3
	MATH 1050	College Algebra QL	4
or	MATH 1055	College Algebra with Preliminaries QL (5.0)	
Complete one of the 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)	
	POLS 1100	American National Government AS (3.0)	
Complete the following:			
	PHIL 2050	Ethics and Values IH	3
	HLTH 1100	Personal Health and Wellness TE (2.0)	
or	EXSC 1097	Fitness for Life TE	2
Distribution Courses:			
		Social/Behavioral Science Distribution	3
		Biology Distribution	3
		Physical Science Distribution	3
		An Additional Biology or Physical Science Course	3
		Fine Arts Distribution	3
		Humanities Distribution	3
Discipline Core Requirements:			24 Credits
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS IT	3
or	CS 1400	Fundamentals of Programming (3.0)	
	INFO 2410	Database Fundamentals	3
	INFO 2420	Web Application Design	3
	IT 1510	Introduction to System Administration--Linux/UNIX	3
	IT 1600	Computer Architecture and Systems Software	3
	IT 2600	Data Communication Fundamentals	3
or	CS 2600	Computer Networks I (3.0)	
	IT 2700	Information Security Fundamentals	3

Graduation Requirements:

1. Completion of a minimum of 60 semester credits.
2. Overall grade point average of 2.0 or above with a minimum 2.5 GPA in all discipline core and elective courses with no grade lower than a "C-."
3. Residency hours: minimum of 20 credit hours through course attendance at UVU.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Information Systems and Technology, A.S.
Careers

1. An ability to apply knowledge of computing and mathematics appropriate to Information Systems and Technology.
2. An ability to communicate effectively with a range of audiences, both in written and oral forms.
3. An ability to use current techniques, skills, and tools necessary for Information Systems and Technology.
4. An ability to apply knowledge of computing and mathematics appropriate to Information Systems.
5. An ability to analyze a problem, and identify and define computing requirements appropriate to its solution.
6. An ability to function effectively on teams to accomplish a common goal.
7. An understanding of security issues and responsibilities related to Information Systems and Technology.
8. An ability to communicate effectively with a range of audiences, both in written and oral forms.
9. An ability to use current techniques, skills, and tools necessary for Information Systems and Technology.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Computer Systems Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Administrative Support, Certificate of Completion

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Requirements

The one-year certificate in Administrative Support program provides training in basic computer literacy and applications, such as word processing, presentations, graphics, and spreadsheet applications. In addition, students build skills in interpersonal and written business communication.

Total Program Credits: 30

Discipline Core Requirements:			30 Credits
	IM 1010	Basic Computer Applications	3
	IM 2100	Document Processing Applications	3
	IM 2300	Information Management Principles	3
	IM 2500	Graphic Applications	3
	IM 2600	Spreadsheet Applications	3
	INFO 2420	Web Application Design	3
	ACC 1150	Fundamentals of Business Math (3)	
or	ACC 2010	Financial Accounting	3
	COMM 2110	Interpersonal Communication SS	3
	MKTG 220G	Written Business Communication GI WE	3
	FIN 1060	Personal Finance SS	3

Information Systems and Technology

Graduation Requirements:

1. Completion of a minimum of 30 credits.
2. Overall GPA of 2.0 or higher with a minimum grade of "C-."
3. Residency hours -- minimum of 10 credit hours through course attendance at UVU.
4. A minimum keyboarding skill of 40 net words per minute is required for graduation.
5. Students are responsible for completing all prerequisite courses.

Note: Potential Administrative Information Support and BS in Information Management students need to take ACC 2010 Financial Accounting.

Administrative Support, Certificate of Completion
Careers

1. An ability to explain information and project management concepts in written and verbal forms.
2. Recognition of the need for continued interest in maintaining and updating technical skills required by business and industry.
3. An ability to analyze problems and use appropriate skills and technology to reach solutions.

Related Careers

- Executive Secretaries and Executive Administrative Assistants
- Secretaries and Administrative Assistants, Except Legal, Medical, and Executive

Administrative Support, Certificate of Proficiency

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Requirements

The certificate of proficiency in Administrative Information Support program provides training for students seeking to develop their skills and knowledge of office administration and office systems. The program core focuses on word processing, presentations, graphics, spreadsheet, and database applications, as well as written and oral business communication skills, office procedures, and basic accounting skills.

Total Program Credits: 30

Discipline Core Requirements:			19 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
	MAT 1010	Intermediate Algebra	4
or	MATH 1050	College Algebra QL	
or	MATH 1055	College Algebra with Preliminaries QL	
	IM 2010	Business Computer Proficiency	3
	INFO 2420	Web Application Design	3
	FIN 1060	Personal Finance SS	3
	HIST 1700	American Civilization AS	3
or	POLS 1000	American Heritage SS	

Graduation Requirements:

1. Completion of a minimum of 19 credits.
2. Overall GPA of 2.75 or above.
3. Residency hours -- minimum of 5 credit hours through course attendance at UVU.

Administrative Support, Certificate of Proficiency
Careers

1. Communicate effectively with a range of audiences, both in written and verbal form.
2. Plan, create, and apply business solutions using current information skills and technology.
3. Design, create, and format documents, spreadsheets, and charts as required by business and industry.
4. Create and use HTML tables, templates, imagemaps, hyperlinks, etc.

Related Careers

- Executive Secretaries and Executive Administrative Assistants
- Secretaries and Administrative Assistants, Except Legal, Medical, and Executive

Application Development, Certificate of Proficiency

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Requirements

The Certificate of Proficiency in Application Development allows employees who do not have a degree to obtain a credential to advance their career prospects. The certificate also allows those individuals who earned degrees outside the computing fields to obtain a credential in Application Development to increase their value to their current or future employers.

Total Program Credits: 18

Matriculation Requirements:			
Programming Prerequisite:			
• INFO 1200 Computer Programming I IS IT (3.0) or CS 1400 Fundamentals of Programming (3.0)			
Web Design Recommended Prerequisite:			
• INFO 2420 Web Application Design • or DGM 2120 Web Essentials (3.0) • Other INFO or IT Prerequisites (depending on elective)			
Discipline Core Requirements:			15 Credits
	INFO 2410	Database Fundamentals	3
	INFO 3300	Web Systems Development	3
	INFO 3330	Client-Side Web Development	3
	INFO 3360	Server-Side Web Frameworks	3
	INFO 4420	Mobile Application Development	3
Elective Requirements:			3 Credits
Choose 3 credits from the following courses:			3
	INFO 2200	Computer Programming II for IS IT (3.0)	
	INFO 4300	Enterprise Web Development (3.0)	
	INFO 4425	Web Application Security (3.0)	

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.

4. Residency hours: minimum of 9 credit hours through course attendance at UVU.

Application Development, Certificate of Proficiency
Careers

1. An ability to apply knowledge of computing and mathematics appropriate to Application Development.
2. An ability to analyze a problem, and identify and define computing requirements appropriate to its solution.
3. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet the needs of an organization and its users.
4. ability to function effectively on teams to accomplish a common goal.
5. An understanding of professional, ethical, legal, security, and social issues and responsibilities related to Information Systems.
6. An ability to communicate effectively with a range of audiences, both in written and oral forms.
7. An ability to analyze the local and global impact of computing on individuals, organizations, and society.
8. An ability to use current techniques, skills, and tools necessary for Application Development.

Related Careers

- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software

Data Analytics, Certificate of Proficiency

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Requirements

A Certificate of Proficiency in Data Analytics allows employees who do not have a degree to obtain a credential to advance their career prospects. A certificate also allows those individuals who earned degrees outside the computing fields to obtain a credential in Data Analytics to increase their value to their current or future employers.

Total Program Credits: 18

Matriculation Requirements:	
Prerequisites may be fulfilled through successful completion of courses listed or by successfully passing challenge exams in areas where challenge exams exist. Statistics Prerequisites: • STAT 2050 Introduction to Statistical Methods (4.0) or • MGMT 2340 Business Statistics I (3.0) or • STAT 1040 Introduction to Statistics QL (3.0) or • STAT 1045 Introduction to Statistics with Algebra QL (3.0) or • STAT 2040 Principles of Statistics QL (3.0) or • BESC 3010 Statistics for the Behavioral Sciences (4.0) • Other CS, DGM, IT, or Marketing Prerequisites (depending on elective)	

Discipline Core Requirements:		15 Credits
INFO 2410	Database Fundamentals	3
INFO 3130	Introduction to Applied Data Analytics	3
INFO 3410	Database Systems and Warehousing	3
INFO 4120	Data Visualization	3
INFO 4130	Data Science and Big Data Analytics	3
Elective Requirements:		3 Credits
Choose 3 credits from the following courses:		3

CS 4620	Data Mining (3.0)	
DGM 3750	Media Analytics (3.0)	
INFO 4135	Data Security Analytics (3.0)	
INFO 4410	Database Administration (3.0)	
MKTG 3690	Digital Marketing Analytics (3.0)	
MKTG 4610	Sales Operations (3.0)	
STAT 4100	Design of Experiment (3.0)	
STAT 4200	Survey Sampling (3.0)	

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 9 credit hours through course attendance at UVU.

Data Analytics, Certificate of Proficiency
Careers

1. Develop technical and analytical skills which will complement professional expertise across a broad array of disciplines.
2. Apply knowledge of computing and mathematics appropriate to Data Analytics.
3. Analyze a problem, and identify and define computing requirements appropriate to its solution.
4. Design, implement, and evaluate a computer-based system, process, component, or program to meet the needs of an organization and its users.
5. Function effectively on teams to accomplish a common goal.
6. Communicate effectively with a range of audiences, both in written and oral forms.
7. Use current techniques, skills, and tools necessary for Data Analytics.

Related Careers

- Chief Executives
- General and Operations Managers
- Operations Research Analysts
- Business Teachers, Postsecondary

Database Administration and Data Warehousing, Certificate of Proficiency

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Requirements

The Certificate of Proficiency in Database Administration and Data Warehousing allows employees who do not have a degree to obtain a credential to advance their career prospects. It also allows those individuals who earned degrees outside the computing fields to obtain a credential in Database Administration and Data Warehousing to increase their value to their current or future employers.

Total Program Credits: 18

Matriculation Requirements:	
Prerequisites may be fulfilled through successful completion of courses listed or by successfully passing challenge exams in areas where challenge exams exist. Statistics Prerequisite (if select INFO 3130 as elective) • STAT 2050 Introduction to Statistical Methods (4) or	

- MGMT 2340 Business Statistics I (3) or
- STAT 1040 Introduction to Statistics QL (3) or
- STAT 1045 Introduction to Statistics with Algebra QL (5) or
- STAT 2040 Principles of Statistics QL (4) or
- PSY 3110 Statistics for the Behavioral Sciences (4)
- Database Prerequisite (if select CS 3720 Database Programming as elective):
- CS 3520 Database Theory (3) or

Discipline Core Requirements:			12 Credits
	INFO 2410	Database Fundamentals	3
	INFO 3410	Database Systems and Warehousing	3
	INFO 4410	Database Administration	3
	INFO 4415	Database Security and Auditing	3
Elective Requirements:			6 Credits
Choose 6 credits from the following courses:			6
	INFO 3130	Introduction to Applied Data Analytics (3)	
	INFO 4120	Data Visualization (3)	
	CS 3720	Database Programming (3)	

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 9 credit hours through course attendance at UVU.

Database Administration and Data Warehousing, Certificate of Proficiency
Careers

1. An ability to apply knowledge of computing and mathematics appropriate to Database Administration and Data Warehousing.
2. An ability to analyze a problem, and identify and define computing requirements appropriate to its solution.
3. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet the needs of an organization and its users.
4. An ability to function effectively on teams to accomplish a common goal.
5. An understanding of professional, ethical, legal, security, and social issues and responsibilities related to Information Systems.
6. An ability to communicate effectively with a range of audiences, both in written and oral forms.
7. An ability to analyze the local and global impact of computing on individuals, organizations, and society.
8. Recognition of the need for, and an ability to engage in, continuing professional developments.
9. An ability to use current techniques, skills, and tools necessary for Information Systems.
10. An understanding of processes that support the delivery and management of Information Systems within a specific application environment.
11. An ability to assist in the creation and management of an effective project plan.

Related Careers

- Database Administrators

Digital Information Management CA, Certificate of Proficiency

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Requirements

The Digital Information Management CA is designed to prepare students to use public relations and communication skills in a business office and to oversee front office operations. Courses include instruction in digital literacy basics, word processing, spreadsheets, and information records management.

Total Program Credits: 12

Discipline Core Requirements:			12 Credits
	IM 1010	Basic Computer Applications	3
	IM 2010	Business Computer Proficiency	3
or	IM 2600	Spreadsheet Applications (3)	
	IM 2100	Document Processing Applications	3
	IM 2300	Information Management Principles	3

Graduation Requirements:

1. Completion of a minimum of 12 credits.
2. Overall grade point average of 2.0 or higher with a minimum grade of C- or above.
3. All courses must be completed at UVU.

Digital Information Management CA, Certificate of Proficiency
Careers

1. Use information technology to find information, to evaluate problems, and create solutions requiring cognitive and technical skills.
2. Use communication technologies to create, evaluate, and communicate information.
3. Organize and manage information including creation, receipt, maintenance use and disposition, and maintaining evidence of business activities and transactions in the form of records.

Related Careers

- Executive Secretaries and Executive Administrative Assistants
- Secretaries and Administrative Assistants, Except Legal, Medical, and Executive

Foundations of Application Development CA, Certificate of Proficiency

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Requirements

The CP in Foundations of Application Development CA is designed to prepare students for an entry-level job in application development. Courses include programming, database, and web application design.

Total Program Credits: 12

Discipline Core Requirements:			12 Credits
	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

Graduation Requirements:

1. Overall GPA of 2.0 or higher with a minimum grade of "C- ".
2. All courses must be completed at UVU.

Foundations of Application Development CA, Certificate of Proficiency
Careers

1. Use theoretical, technical, and organizational knowledge to analyze, design, develop, and implement secure Information Systems computing solutions.
2. Use problem solving skills and identify lessons learned.
3. Facilitate communications between technical and business-oriented groups.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Computer Systems Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Information Systems and Technology, Certificate of Proficiency

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Requirements

The Certificate of Proficiency in Information Systems and Technology is available to all UVU Students with a particular focus designed to provide high school students an opportunity to obtain a stackable certificate of proficiency with an emphasis in career and technical education while still enrolled in high school. This certificate will be available from the University for college students/adults looking for basic entry-level skills leading to further academic advancement. Students complete a foundational core in programming, database, web application design, data communication, and networking.

Total Program Credits: 16

Discipline Core Requirements:			10 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGH 1005	Literacies and Composition Across Contexts CC (5)	
	MATH 1050	College Algebra QL	4
or	MATH 1055	College Algebra with Preliminaries QL (5)	
	INFO 1120	Information Systems and Technology Fundamentals	3
Domain Requirements:			6 Credits
Complete 6 credits from one domain:			6
Information Systems Domain			
	INFO 1200	Computer Programming I for IS IT (3)	

or	CS 1400	Fundamentals of Programming (3)	
	INFO 2420	Web Application Design (3)	
Information Technology Domain			
	IT 1510	Introduction to System Administration--Linux/UNIX (3)	
	IT 1600	Computer Architecture and Systems Software (3)	

Graduation Requirements:

1. Completion of a minimum of 16 semester credits.
2. Minimum grade of C required in all courses.
3. Overall grade point average of 2.5 (C) or above.
4. Residency hours: minimum of 5 credit hours through course attendance at UVU

Information Systems and Technology, Certificate of Proficiency
Careers

1. Practice core competencies in computing to analyze, design, develop, and implement secure computing solutions.
2. Advance professionally with increased workplace contributions.
3. Adapt to change through continued professional development.
4. Serve in professional organizations and local communities.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Computer Systems Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Information Technology, Certificate of Proficiency

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Requirements

The Certificate of Proficiency in Information Technology provides students with training in basic computer applications and introductory coursework in the field of Information Technology. The program is designed to get people employed in entry-level IT positions. Students can select from a variety of introductory IT courses to build knowledge and skill in computer programming, database fundamentals, Linux and Windows system administration, computer architecture, cabling, networking, and security.

Total Program Credits: 18

Discipline Core Requirements:			12 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGH 1005	Literacies and Composition Across Context CC (5)	
	INFO 1120	Information Systems and Technology Fundamentals	3

	IT 1510	Introduction to System Administration--Linux/UNIX	3
	IT 1600	Computer Architecture and Systems Software	3
Elective Requirements:			6 Credits
Complete 6 credits from the following:			6
	INFO 1200	Computer Programming I for IS IT (3)	
or	CS 1400	Fundamentals of Programming (3)	
	INFO 2410	Database Fundamentals (3)	
	IT 2400	Voice and Data Cabling 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)	
	IT 2800	Computer Forensic Fundamentals (3)	
	IT 290R	Current Topics in Information Technology (1)	

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 5 credit hours through course attendance at UVU.

Information Technology, Certificate of Proficiency
Careers

1. An ability to apply knowledge of computing and mathematics appropriate to Information Technology.
2. An ability to communicate effectively with a range of audiences, both in written and oral forms.
3. An ability to use current techniques, skills, and tools necessary for Information Technology.

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists

Network Administration, Certificate of Completion

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Requirements

The Certificate of Completion in Network Administration provides students with training in server administration, computer architecture, and networking. Students select from a variety of courses in cabling, Windows system administration, router management, information security, computer forensics, and Linux system administration.

Total Program Credits: 31

Discipline Core Requirements:			25 Credits
Complete the following:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS IT	3
or	CS 1400	Fundamentals of Programming (3)	
	IT 1510	Introduction to System Administration--Linux/UNIX	3
	IT 1600	Computer Architecture and Systems Software	3
	INFO 2410	Database Fundamentals	3
	IT 2600	Data Communication Fundamentals	3
or	CS 2600	Computer Networks I (3)	
Communication Requirement:			
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGH 1005	Literacies and Composition Across Contexts CC (3)	
Computation Requirement:			
	MAT 1010	Intermediate Algebra	4
	MATH 1050	College Algebra QL (4)	
	MATH 1055	College Algebra with Preliminaries QL (5)	
Elective Requirements:			6 Credits
Complete 6 credits from the following courses:			6
	IT 2400	Voice and Data Cabling Fundamentals (3)	
	IT 2530	Introduction to System Administration--Windows Client (3)	
	IT 2700	Information Security Fundamentals (3)	
	IT 2800	Computer Forensic Fundamentals (3)	
	IT 3510	Advanced System Administration--Linux/UNIX (3)	
	IT 3530	Advanced System Administration--Windows Server (3)	

Graduation Requirements:

1. Completion of a minimum of 31 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

Network Administration, Certificate of Completion
Careers

1. An ability to apply knowledge of computing and mathematics appropriate to Network Administration.
2. An ability to communicate effectively with a range of audiences, both in written and oral forms.
3. An ability to use current techniques, skills, and tools necessary for Network Administration.

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects

- Computer Network Support Specialists

Applied Data Analytics, Minor

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Requirements

The Minor in Applied Data Analytics allows students to choose among Information Systems, Statistics, and Marketing courses to learn about data management and analysis.

Total Program Credits: 18

Discipline Core Requirements:		6 Credits
INFO 2410	Database Fundamentals	3
INFO 3130	Introduction to Applied Data Analytics	3
Elective Requirements:		12 Credits
Choose 12 hours from the following:		12
INFO 3410	Database Systems and Warehousing (3)	
INFO 4120	Data Visualization (3)	
INFO 4130	Data Science and Big Data Analytics (3)	
MKTG 3680	Marketing with Social Media (3)	
MKTG 3690	Digital Marketing Analytics (3)	
MKTG 4610	Sales Operations (3)	
STAT 4100	Design of Experiment (3)	
STAT 4200	Survey Sampling (3)	
STAT 4400	Multivariate Analysis WE (3)	
STAT 4500	Nonparametric Statistics (3)	
BIOL 3100	Introduction to Data Analysis for Biologists (3)	
	Other advisor-approved elective.	

Graduation Requirements:

1. Completion of a minimum of 18 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours: minimum of 9 credit hours through course attendance at UVU.

Applied Data Analytics, Minor
Careers

1. An ability to apply knowledge of computing and mathematics appropriate to Data Analytics.
2. An ability to analyze a problem, and identify and define computing requirements appropriate to its solution.
3. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet the needs of an organization and its users.
4. An ability to function effectively on teams to accomplish a common goal.
5. An ability to communicate effectively with a range of audiences, both in written and oral forms.
6. An ability to use current techniques, skills, and tools necessary for Data Analytics.

Related Careers

- Chief Executives
- General and Operations Managers
- Operations Research Analysts
- Business Teachers, Postsecondary

Business Information Technology, Minor

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Requirements

The Minor in Business Information Technology gives students with a business or liberal arts major, the option of strengthening their general studies with technical coursework.

Total Program Credits: 21

Matriculation Requirements:			
	1. Admitted to a bachelor degree program at UVU.		
Discipline Core Requirements:			21 Credits
	IM 1010	Basic Computer Applications	3
	IM 2100	Document Processing Applications	3
	IM 2500	Graphic Applications	3
or	IM 3500	Desktop Publishing Applications (3.0)	
	IM 2600	Spreadsheet Applications	3
	IM 2800	Integrated Software Projects	3
	IM 3700	Database Applications	3
	INFO 2420	Web Application Design	3

Graduation Requirements:

1. Overall grade point average of 2.5 GPA in all discipline core and elective courses with no grade lower than a C-.
2. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

Business Information Technology, Minor
Careers

1. An ability to explain information and project management concepts in written and verbal forms.
2. An ability to communicate effectively with a range of audiences, both in written and oral forms.
3. Recognition of the need for continued interest in maintaining and updating technical skills required by business and industry.
4. A global perspective on legal and ethical issues surrounding information management and technology.
5. An ability to analyze problems and use appropriate skills and technology to reach solutions.

Related Careers

- Audio-Visual and Multimedia Collections Specialists

Information Systems and Technology, Minor

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Information Systems and Technology

Requirements

The Minor in Information Systems gives students with a business or liberal arts major, the option of strengthening their general studies with technical coursework.

Total Program Credits: 21

Discipline Core Requirements:			12 Credits
Prerequisite:			
	INFO 1120	Information Systems and Technology Fundamentals (3)	
Complete the following:			
	INFO 1200	Computer Programming I for IS IT	3
or	CS 1400	Fundamentals of Programming (3)	
	INFO 2410	Database Fundamentals (3)	3
or	INFO 3410	Database Systems and Warehousing	
	IT 1600	Computer Architecture and Systems Software	3
or	CS 2810	Computer Organization and Architecture (3)	
	IT 2600	Data Communication Fundamentals	3
or	IT 3600	Internetworking and Router Management (3)	
Elective Requirements:			9 Credits
Complete 9.0 credits from the following, 6 credits of which must be upper division:			9
	INFO 2200	Computer Programming II for IS IT (3)	
	INFO 2420	Web Application Design (3)	
	INFO 3120	Management Information Systems (3)	
	INFO 3410	Database Systems and Warehousing (3)	
	INFO 3300	Web Systems Development (3)	
	INFO 3430	Systems Analysis and Design WE (3)	
	INFO 3700	Health Informatics Fundamentals (3)	
	INFO 4120	Data Visualization (3)	
	IT 1510	Introduction to System Administration--Linux/UNIX (3)	
	IT 2530	Introduction to System Administration--Windows Client (3)	
	IT 2700	Information Security Fundamentals (3)	
	IT 2800	Computer Forensic Fundamentals (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)	

Graduation Requirements:

1. To fill the requirements for an information systems and technology minor, students must have no course grade lower than C- in any of the INFO or IT courses required for the minor.

2. Courses may not be double-counted between the core and elective sections.

Information Systems and Technology, Minor
Careers

1. An ability to apply knowledge of computing and mathematics appropriate to Information Systems and Technology.
2. An ability to communicate effectively with a range of audiences, both in written and oral forms.
3. An ability to use current techniques, skills, and tools necessary for Information Systems and Technology.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Computer Systems Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

Business/Marketing Education, B.S.

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Requirements

Students interested in teaching can pursue a Bachelor of Science in Business/Marketing Education and a secondary teaching license through a joint program offered by the Information Systems and Technology Department and the School of Education. The Business/Marketing Education curriculum prepares students to teach business, marketing, and information technology in secondary schools.

Total Program Credits: 122

Matriculation Requirements:			
1. ENGL and MATH QL courses must have a grade C or higher. 2. GPA of 3.0 or higher with no grade lower than a C in content area courses. 3. Completion of all General Education requirements and 70% of content area courses. 4. Pass LiveScan Criminal Background Check.			
General Education Requirements:			36 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)	
Complete one of the following:			3

	HIST 2700	US History to 1877 AS (3)	
and	HIST 2710	US History since 1877 AS (3)	
	HIST 1700	American Civilization AS (3)	
	HIST 1740	US Economic History AS (3)	
	POLS 1000	American Heritage SS (3)	
	POLS 1100	American National Government AS (3)	
Complete the following:			
	PHIL 2050	Ethics and Values IH	3
	HLTH 1100	Personal Health and Wellness TE (2)	
or	EXSC 1097	Fitness for Life TE	2
Distribution Courses			
	ECON 2010	Principles of Economics I SS	3
		Biology	3
		Physical Science	3
		Additional Biology or Physical Science	3
		Humanities Distribution	3
		Fine Arts	3
Discipline Core Requirements:			83 Credits
Must be completed with a grade of B- or higher.			
	BMED 4200	Methods of Teaching Business/ Marketing/ Digital Technology	3
	IM 1010	Basic Computer Applications	3
	IM 2100	Document Processing Applications	3
	IM 2500	Graphic Applications	3
	IM 2600	Spreadsheet Applications	3
	IM 3700	Database Applications	3
	INFO 1120	Information Systems and Technology Fundamentals	3
Complete one of the following:			3
	INFO 1000	E-Commerce Techniques for Small Business (3)	
	MKTG 3660	Digital Marketing (3)	
	MKTG 3680	Marketing with Social Media (3)	
Complete the following:			
	INFO 1200	Computer Programming I for IS IT	3
	INFO 2200	Computer Programming II for IS IT	3
	INFO 2420	Web Application Design	3
	ACC 2010	Financial Accounting	3
	FIN 1060	Personal Finance SS	3
	LEGL 3000	Business Law	3
	MGMT 3000	Organizational Behavior WE	3
	MKTG 220G	Written Business Communication GI WE	3
	MKTG 3600	Principles of Marketing	3
	EDSC 1010	Introduction to Education	2
	EDSC 3000	Educational Psychology	3
	EDSC 325G	Equitable Technology Integration GI	2
	EDSP 340G	Exceptional Students GI	2
	EDSC 4200	Classroom Management I (Dance Education Majors take DANC 4430 in place of EDSC 4200)	2
	EDSC 4250	Classroom Management II	2
	EDSC 4440	Content Area Literacies (English Education Majors take ENGL 4210, 4420, and 4230 in place of EDSC 4440.)	3

	EDSC 445G	Multicultural Instruction ESL GI	3
	EDSC 455G	Secondary Curriculum Instruction and Assessment GI	3
	EDSC 4850	Student Teaching Secondary	8
	EDSC 4990	Teacher Performance Assessment Project WE	2
Elective Requirements:			3 Credits
Complete at least 3 credits from approved list of electives. See Department Advisor.			3
	BMED 4300	Methods of Teaching Computer Science (3)	
	IM 2300	Information Management Principles (3)	
	IM 3600	Advanced Excel for Decision Making (3)	
	INFO 2410	Database Fundamentals(3)	
	DGM 1110	Digital Media Essentials I (4)	
	DAGV 1200	3D Modeling Essentials (3)	
	IT 1510	Introduction to System Administration--Linux/UNIX (3)	
	IT 1600	Computer Architecture and Systems Software (3)	
	IT 1700	Cybersecurity Essentials (3)	
	IT 2600	Data Communication Fundamentals (3)	

Graduation Requirements:

1. Completion of 122 semester credit hours with at least 40 credit hours in upper-division courses.
2. Overall Grade of 3.0 (B) or above with no grade lower than a C in major required content courses and no grade lower than a B- in Licensure and Methods courses.
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.
6. Successful completion of at least two Writing Enriched (WE) courses.

Business/Marketing Education, B.S.
Careers

1. Create, analyze, revise, and implement curricula to prepare students to teach business and marketing education at the secondary level.
2. Facilitate the learning of dynamic subject matter in a diverse learning environment.
3. Maintain a solid foundation in general education content, business and marketing content, and professional education content.

Related Careers

- Business Teachers, Postsecondary
- Education Teachers, Postsecondary
- Vocational Education Teachers, Postsecondary
- Career/Technical Education Teachers, Middle School
- Career/Technical Education Teachers, Secondary School

Cybersecurity, Graduate Certificate

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Requirements

The Graduate Certificate in Cybersecurity at Utah Valley University is a post-baccalaureate program for students who wish to complete advanced studies in the field of cybersecurity. This program is designed to provide students with advanced technical and managerial knowledge of cybersecurity, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cybersecurity theory with hands-on education for essential applied cybersecurity techniques and tools.
The program takes two semesters to complete the 18 credits of graduate level courses. Courses include cybersecurity operations, advanced network defense, cybersecurity management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cybersecurity.

To be successful, students should have a strong background in technology. Students should have completed undergraduate work in a related field or have applicable work experience. For those who do not meet this requirement, select undergraduate courses are available to provide the foundational knowledge needed. Please contact the academic advisor for more information.

Total Program Credits: 18

Matriculation Requirements:			
1. Application for admission to the program.			
2. Bachelor's degree required, preferably in Information Systems, Information Security, Information Technology, or Computer Science.			
3. 2 years of IT or IT security industry experience (if Bachelor's degree in non-related field).			
4. Completion of undergraduate courses in data communication, programming, and servers.			
Discipline Core Requirements:			12 Credits
	IT 6300	Principles of Cybersecurity	3
	IT 6330	Cybersecurity Operations	3

	IT 6350	Law/Ethics/ Privacy in Cybersecurity	3
	IT 6370	Penetration Testing and Vulnerability Assessment	3
Elective Requirements:			6 Credits
Choose 6 credits from the following:			6
	IT 6660	Advanced Network Forensics (3.0)	
	IT 6740	Advanced Network Defense and Countermeasures (3.0)	
	IT 6760	Case Studies in Cybersecurity (3.0)	
	IT 6770	Cybersecurity Management (3.0)	
	IT 6780	Secure Coding (3.0)	
	or other departmental approved electives		

Graduation Requirements:

1. Completion of a minimum of 18 credits.
2. Overall grade point average of 3.0 (B) or above.
3. Residency hours -- minimum of 5 credit hours through course attendance at UVU.
4. Courses and project requirements must be finished within a five-year period. No courses will apply toward graduation which are older than five years.

Cybersecurity, Graduate Certificate
Careers

1. Clearly explain complex technical cyber security concepts in written and verbal forms.
2. Describe and explain how to mitigate cyber security threats to enterprise, government, and individuals.
3. Explain the role of cyber security in the enterprise and how to integrate cyber security principles into existing processes.
4. Be aware of their responsibility to behave ethically in their professional lives (e.g., clients, customers, employers, society, profession, environment, and community).
5. Have a global perspective on legal and ethical issues surrounding cyber security and technology.

Related Careers

- Computer and Information Systems Managers
- Information Security Analysts
- Database Administrators
- Network and Computer Systems Administrators
- Computer Network Architects
- Computer Network Support Specialists

Information Management, B.S.

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Requirements

The Bachelor of Science in Information Management is designed to prepare students to supervise and manage the operations and personnel of business offices. Courses include instruction in employee supervision, budgeting, scheduling and coordination, office systems operation and maintenance, office records management, public relations, project management, accounting, decision making, and human resources.

Total Program Credits: 120

General Education Requirements:			36 Credits
	ENGL 1010	Introduction to Academic Writing CC	3
or	ENGH 1005	Literacies and Composition Across Context CC (5)	
	ENGL 2010	Intermediate Academic Writing CC	3
	MATH 1050	College Algebra QL (4)	4
or	MATH 1055	College Algebra with Preliminaries QL (5)	
Complete one of the following:			3
	HIST 2700	US History to 1877 AS (3)	
and	HIST 2710	US History since 1877 AS (3)	
	HIST 1700	American Civilization AS (3)	
	HIST 1740	US Economic History AS (3)	
	POLS 1000	American Heritage SS (3)	
	POLS 1100	American National Government AS (3)	
Complete the following:			
	PHIL 2050	Ethics and Values IH	3
	HLTH 1100	Personal Health and Wellness TE	2
or	EXSC 1097	Fitness for Life TE (2)	
Distribution Courses:			
	ECON 2010	Principles of Economics I SS (fulfills Social/Behavioral Science)	3
	Biology		3
	Physical Science		3
	Additional Biology or Physical Science		3
	Humanities Distribution		3
	Fine Arts Distribution		3
Discipline Core Requirements:			69 Credits
	IM 1010	Basic Computer Applications	3
	IM 2100	Document Processing Applications	3
	IM 2300	Information Management Principles	3
	IM 2500	Graphic Applications	3
	IM 2600	Spreadsheet Applications	3
	IM 3700	Database Applications	3
	IM 481R	Internship	3
	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
	INFO 3430	Systems Analysis and Design WE	3
	INFO 405G	Global Ethical and Professional Perspectives in IS and IT GI WE	3
	ACC 2110	Principles of Accounting I	3
	FIN 1060	Personal Finance SS	3
	HR 3430	Introduction to Human Resource Management	3
	MGMT 3000	Organizational Behavior WE	3
	MKTG 3600	Principles of Marketing	3
	MKTG 220G	Written Business Communication GI WE	3
	TECH 3400	Project Management WE	3
	TECH 4400	Advanced Project Management	3
Elective Requirements:			15 Credits
Complete at least 9 upper-division credits from a selected domain:			9
Business Intelligence Domain			
	INFO 3120	Management Information Systems (3)	
	INFO 3130	Introduction to Applied Data Analytics (3)	
	INFO 3300	Web Systems Development (3)	
	INFO 3330	Client-Side Web Development (3)	
	INFO 4120	Data Visualization (3)	
	INFO 4130	Data Science and Big Data Analytics (3)	
Digital Marketing			
	INFO 1000	E-Commerce Techniques for Small Business(3)	
	IT 3350	Intellectual Property and Cyber Law (3)	
	MKTG 3660	Digital Marketing (3)	
	MKTG 3680	Marketing with Social Media (3)	
	MKTG 3685	Content Marketing (3)	
Mobile Development Domain:			
	INFO 3130	Introduction to Applied Data Analytics (3)	
	INFO 3300	Web Systems Development (3)	
	INFO 3330	Client-Side Web Development (3)	
	INFO 4420	Mobile Application Development (3)	
	DGM 1110	Digital Media Essentials I (4)	
	DWDD 2410	Interaction Design	
	DWDD 1430	Principles of Digital Design	
Programming:			
	IT 1200	Scripting for Administrators (3)	
	IT 1510	Introduction to System Administration-Linux/UNIX (3)	
	IT 1600	Computer Architecture and Systems Software (3)	

	IT 2600	Data Communication Fundamentals (3)	
Web Systems Development Domain			
	INFO 3300	Web Systems Development (3)	
	INFO 3330	Client-Side Web Development (3)	
	INFO 3360	Server-Side Web Frameworks(3)	
	INFO 4425	Web Application Security (3)	
	INFO 4300	Enterprise Web Development (3)	
Complete at least 9 credits from the following electives or from courses in above domains.			9
	IM 2800	Integrated Software Projects (3)	
	IM 3600	Advanced Excel for Decision Making (3)	
	IM 490R	Advanced Topics in Information Management (1-3)	
	IM 496R	Information Management Seminar (1-3)	
	INFO 3410	Database Systems and Warehousing (3)	
	IT 1700	Cybersecurity Essentials (3)	
	ACC 1150	Fundamentals of Business Math (3)	
	COMM 2110	Interpersonal Communication SS (3)	
	HM 3210	Event Venue and Convention Management (3)	
	MGMT 2030	Inclusive Leadership SS (3)	
	TECH 3010	Creativity Innovation and Change Management (3)	
	TECH 4400	Advanced Project Management (3)	
		Other department approved classes	

Graduation Requirements:

1. Completion of the 120 semester credit hours required in the degree with at least 40 credit hours in upper-division courses.
2. Overall grade point average 2.75 or above with no grade lower than a "C-" in core, domain, and elective courses.
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.
6. Successful completion of at least two Writing Enriched (WE) courses.

NOTE: The UVU catalog contains the descriptions and prerequisites for all courses. Not all courses are offered every semester.

Information Management, B.S.
Careers

1. Clearly explain information and concepts in written, electronic, and verbal forms.
2. Explain and apply business and information management principles when solving problems.
3. Demonstrate a continued interest in maintaining and updating technical skills required by business and industry.
4. Have a global perspective on legal and ethical issues surrounding information management and technology.

Related Careers

- First-Line Supervisors of Office and Administrative Support Workers

Information Systems - Application Development Emphasis, B.S.

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Requirements

The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs.

Total Program Credits: 123

		General Education Requirements:	36 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)	4
or	MATH 1055	College Algebra with Preliminaries QL (5)	
		American Institutions: Complete one of the following:	3
	HIST 2700	US History to 1877 AS (3)	
and	HIST 2710	US History since 1877 AS (3)	
	HIST 1700	American Civilization AS (3)	
	HIST 1740	US Economic History AS (3)	
	POLS 1000	American Heritage SS (3)	
	POLS 1100	American National Government AS (3)	
		Complete the following:	
	PHIL 2050	Ethics and Values IH (3)	3
	HLTH 1100	Personal Health and Wellness TE (2)	2
or	EXSC 1097	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 [1]	3
		Discipline Core Requirements:	63 Credits
		Math Requirement:	3
	MGMT 2340	Business Statistics I (3)	
		IS Core Requirements:	
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS IT	3
or	CS 1400	Fundamentals of Programming (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 1510	Introduction to System Administration-- Linux/UNIX	3
	IT 2600	Data Communication Fundamentals	3
	IT 2700	Information Security Fundamentals	3
	INFO 3130	Introduction to Applied Data Analytics	3
	INFO 3300	Web Systems Development	3
	INFO 3410	Database Systems and Warehousing	3
	INFO 3430	Systems Analysis and Design WE	3
	INFO 405G	Global Ethical and Professional Perspectives in IS and IT GI WE	3
	INFO 4430	Systems Design and Implementation	3
		IS Environment/Business Foundation Requirements:	
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	MKTG 220G	Written Business Communication GI WE	3
	MGMT 3000	Organizational Behavior WE	3
	MKTG 3600	Principles of Marketing	3
		Emphasis Requirements:	15 Credits
	INFO 3330	Client-Side Web Development	3
	INFO 3360	Server-Side Web Frameworks	3
	INFO 4420	Mobile Application Development	3
	INFO 4425	Web Application Security	3
	INFO 4300	Enterprise Web Development	3
		Emphasis Elective Requirements:	9 Credits
		Complete 9 credit hours from the following:	9
	INFO 4120	Data Visualization (3)	
	INFO 481R	Internship (3)	
	CS 2550	Web Programming I (3)	
	CS 3270	Python Software Development (3)	
	CS 3410	Human Factors in Software Development (3)	
	CS 3660	Web Programming II (3)	
		Other approved upper-division Information Systems courses	

Notes:

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-."

Information Systems and Technology

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.

Information Systems - Application Development Emphasis, B.S.
Careers

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Support the delivery, use, and management of information systems within an information systems environment.

Related Careers

- Computer Programmers
- Software Developers, Applications
- Software Developers, Systems Software

Information Systems - Business Intelligence Systems Emphasis, B.S.

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Requirements

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 Business Intelligence Systems (BIS) emphasis prepares graduates to become business intelligence analysts who produce financial and marketing intelligence by querying data repositories, generating reports, and devising methods for identifying data patterns and trends. Organizations store an enormous amount of data. People who are able to perform data mining and can analyze the data to detect trends and form predictions are highly sought by national and regional organizations.

Total Program Credits: 123

General Education Requirements:			36 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)	4
or	MATH 1055	College Algebra with Preliminaries QL (5)	
American Institutions: Complete one of the following:			3
	HIST 2700	US History to 1877 AS (3)	
and	HIST 2710	US History since 1877 AS (3)	
	HIST 1700	American Civilization AS (3)	
	HIST 1740	US Economic History AS (3)	
	POLS 1000	American Heritage SS (3)	
	POLS 1100	American National Government AS (3)	
Complete the following:			
	PHIL 2050	Ethics and Values IH (3)	3
	HLTH 1100	Personal Health and Wellness TE (2)	2
or	EXSC 1097	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 [1]	3
Discipline Core Requirements:			63 Credits
Math Requirement:			
	MGMT 2340	Business Statistics I	3
IS Core Requirements:			
	INFO 1120	Information Systems and Technology Fundamentals	3
	INFO 1200	Computer Programming I for IS IT	3
or	CS 1400	Fundamentals of Programming (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 1510	Introduction to System Administration--Linux/UNIX	3
	IT 2600	Data Communication Fundamentals	3
	IT 2700	Information Security Fundamentals	3
	INFO 3130	Introduction to Applied Data Analytics	3
	INFO 3300	Web Systems Development	3
	INFO 3410	Database Systems and Warehousing	3
	INFO 3430	Systems Analysis and Design WE	3
	INFO 405G	Global Ethical and Professional Perspectives in IS and IT GI WE	3
	INFO 4430	Systems Design and Implementation	3
IS Environment/Business Foundation Requirements:			
	ACC 2010	Financial Accounting	3
	ACC 2020	Managerial Accounting	3
	MKTG 220G	Written Business Communication GI WE	3
	MGMT 3000	Organizational Behavior WE	3
	MKTG 3600	Principles of Marketing	3
Emphasis Requirements:			12 Credits
	MGMT 3345	Business Statistics II	3

	INFO 4120	Data Visualization	3
	INFO 4130	Data Science and Big Data Analytics	3
	INFO 4135	Data Security Analytics	3
Emphasis Elective Requirements:			12 Credits
Choose 12 credit hours from the following:			12
	IM 3600	Advanced Excel for Decision Making (3)	
	INFO 3120	Management Information Systems (3)	
	INFO 3330	Client-Side Web Development (3)	
	INFO 3360	Server-Side Web Frameworks (3)	
	INFO 4300	Enterprise Web Development (3)	
	INFO 4410	Database Administration (3)	
	INFO 4415	Database Security and Auditing (3)	
	INFO 4420	Mobile Application Development (3)	
	INFO 4425	Web and Application Security (3)	
	MKTG 4300	Marketing Data Science (3)	
		Other approved upper-division Information Systems courses	

Notes:

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-."
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.

Information Systems - Business Intelligence Systems Emphasis, B.S.
Careers

1. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet the needs of an organization and its users.
2. An ability to analyze a problem, and identify and define computing requirements appropriate to its solution.
3. An ability to analyze the local and global impact of computing on individuals, organizations, and society.
4. An ability to apply knowledge of computing and mathematics appropriate to Information Systems.
5. An ability to assist in the creation and management of an effective project plan.
6. An ability to communicate effectively with a range of audiences, both in written and oral forms.
7. An ability to function effectively on teams to accomplish a common goal.
8. An ability to use current techniques, skills, and tools necessary for Information Systems.
9. An understanding of processes that support the delivery and management of Information Systems within a specific application environment. 10--An understanding of professional, ethical, legal, security, and social issues and responsibilities

related to Information Systems. 11-Recognition of the need for, and an ability to engage in, continuing professional developments.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Software Developers, Systems Software
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

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
	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)	4
or	MATH 1055	College Algebra with Preliminaries QL (5)	
American Institutions: Complete one of the following:			3
	HIST 2700	US History to 1877 AS (3)	
and	HIST 2710	US History since 1877 AS (3)	
	HIST 1700	American Civilization AS (3)	
	HIST 1740	US Economic History AS (3)	
	POLS 1000	American Heritage SS (3)	
	POLS 1100	American National Government AS (3)	
Complete the following:			
	PHIL 2050	Ethics and Values IH (3)	3
	HLTH 1100	Personal Health and Wellness TE (2)	2
or	EXSC 1097	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 [1]	3
Discipline Core Requirements:		63 Credits
Math Requirement:		
	MGMT 2340 Business Statistics I	3
IS Core Requirements:		
	INFO 1120 Information Systems and Technology Fundamentals	3
	INFO 1200 Computer Programming I for IS IT	3
or	CS 1400 Fundamentals of Programming (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 1510 Introduction to System Administration-- Linux/UNIX	3
	IT 2600 Data Communication Fundamentals	3
	IT 2700 Information Security Fundamentals	3
	INFO 3130 Introduction to Applied Data Analytics	3
	INFO 3300 Web Systems Development	3
	INFO 3410 Database Systems and Warehousing	3
	INFO 3430 Systems Analysis and Design WE	3
	INFO 405G Global Ethical and Professional Perspectives in IS and IT GI WE	3
	INFO 4430 Systems Design and Implementation	3
IS Environment/Business Foundation Requirements:		
	ACC 2010 Financial Accounting	3
	ACC 2020 Managerial Accounting	3
	MKTG 220G Written Business Communication GI WE	3
	MGMT 3000 Organizational Behavior WE	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 and Application Security	3
	IT 4700 Enterprise Cybersecurity Management	3
Emphasis Elective Requirements:		9 Credits
Choose 9 credit hours from the following advanced upper-division courses:		9
	IT 3350 Intellectual Property and Cyber Law (3)	
	IT 4750 Information Technology Operations Capstone (3)	
	INFO 3330 Client-Side Web Development (3)	
	INFO 3360 Server-Side Web Framework(3)	
	INFO 4300 Enterprise Web Development (3)	
	INFO 481R Internship (3)	

	Other approved upper-division Information Systems courses	
Notes:		
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-."
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.

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

1. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet the needs of an organization and its users.
2. An ability to analyze a problem, and identify and define computing requirements appropriate to its solution.
3. An ability to analyze the local and global impact of computing on individuals, organizations, and society.
4. An ability to apply knowledge of computing and mathematics appropriate to Information Systems.
5. An ability to assist in the creation and management of an effective project plan.
6. An ability to communicate effectively with a range of audiences, both in written and oral forms.
7. An ability to function effectively on teams to accomplish a common goal.
8. An ability to use current techniques, skills, and tools necessary for Information Systems.
9. An understanding of processes that support the delivery and management of Information Systems within a specific application environment.
10. An understanding of professional, ethical, legal, security, and social issues and responsibilities related to Information Systems.
11. Recognition of the need for, and an ability to engage in, continuing professional developments.

Related Careers

- Computer and Information Systems Managers
- Computer and Information Research Scientists
- Software Developers, Systems Software
- Computer Occupations, All Other
- Computer Science Teachers, Postsecondary

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 of 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
	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)	
Complete one of the 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)	
Complete the following:			
	PHIL 2050	Ethics and Values IH	3
	HLTH 1100	Personal Health and Wellness TE	2
or	EXSC 1097	Fitness for Life TE (2)	
Distribution Courses:			
		Biology Distribution	3
		Physical Science 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 Requirement:			
	CS 2300	Discrete Mathematical Structures I	3
	STAT 2050	Introduction to Statistical Methods	3
or	MGMT 2340	Business Statistics I	
IT Core Requirements:			
	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	Network Security and Operations Capstone	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.)[2]			
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	
		Physical Sciences	
		Social Sciences	
Emphasis Requirements:			9 Credits
	IT 2800	Computer Forensic Fundamentals	3
	IT 3350	Intellectual Property and Cyber Law	3

	IT 4800	Advanced Mobile Devices Forensics	3
Emphasis Elective Requirements:			6 Credits
Complete 6 credit hours from the following:			6
	INFO 3330	Client-Side Web Development (3)	
	INFO 3360	Server-Side Web Frameworks (3)	
	INFO 3410	Database Systems and Warehousing (3)	
	INFO 4135	Data Security Analytics (3)	
	INFO 4415	Database Security and Auditing (3)	
	INFO 4425	Web and Application Security (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)	
	Other approved upper-division Information Technology and Information Systems courses		

Notes:

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

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 satisfies this requirement.
6. Successful completion of at least one Global/Intercultural course.
7. Successful completion of at least two Writing Enriched (WE) courses.

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

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Use systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals.

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists

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

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)	
Complete one of the 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)	
Complete the following:			
	PHIL 2050	Ethics and Values IH	3
	HLTH 1100	Personal Health and Wellness TE	2
or	EXSC 1097	Fitness for Life TE (2)	
Distribution Courses:			
		Biology Distribution	3
		Physical Science 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 Requirement:			
	CS 2300	Discrete Mathematical Structures I	3
	STAT 2050	Introduction to Statistical Methods	3
or	MGMT 2340	Business Statistics I	
IT Core Requirements:			
	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 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.) [2]			
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		
	Physical Sciences		
	Social Sciences		
Emphasis Requirements:			**6 Credits**
	IT 2400	Voice and Data Cabling Fundamentals	3
	INFO 4425	Web Application Security	3
Emphasis Elective Requirements:			**9 Credits**
Complete 9 credit hours from the following (6 credits must be 3000 or higher):			9
	INFO 3330	Client-Side Web Development (3)	
	INFO 3360	Server-Side Web Frameworks (3)	
	INFO 3410	Database Systems and Warehousing (3)	
	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)	
	Other approved upper-division Information Technology and Information Systems courses		

Notes:

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

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 satisfies this requirement.
6. Successful completion of at least one Global/Intercultural course.

7. Successful completion of at least two Writing Enriched (WE) courses.

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

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Use systemic approaches to select, develop, apply, integrate, and administer secure computing technologies to accomplish user goals.

Related Careers

- Computer Systems Analysts
- Information Security Analysts
- Computer Network Architects
- Computer Network Support Specialists