

Information Systems and Technology

Information Systems and Technology

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Information technology is at the heart of today's business. Companies are constantly looking to hire technology-savvy college graduates who will help them achieve competitive advantage in this new century. The Information Systems and Technology (IS&T) Department teaches students how to be productive team players in today's business world through a balanced offering of certificate, associate, and bachelor's degrees in Information Systems and

Information Technology.

The mission of the Information Systems and Technology Department is to provide technologically progressive courses and services that are responsive to our stakeholder community and designed to enhance the competencies of our students in applying information technology to achieve organizational objectives, thus preparing them for successful employment and continuing education. IS&T graduates know how to bring people, information, and technology together to produce enterprise solutions.

Our degree programs are based on national curriculum models developed by Information Systems and Technology professionals and educators. The curriculum is learning outcomes-based and reflects program requirements promulgated by the Accreditation Board for Engineering and Technology (ABET). Our local advisory committee provides regular guidance in tailoring the curriculum to local needs.

Our courses are taught by dedicated faculty with real-world experience in systems development and the use of information technologies to meet organizational and business computing needs. Faculty help students become competent in using state-of-the-art technology, to be critical thinkers, to practice excellent communication skills, to develop teamwork and interpersonal skills, and become life-long learners.

PROGRAMS

The Information Systems and Technology Department offers two bachelor's degrees (BS IS and BS IT), an Associate in Science (AS) degree, a two-year Associate in Applied Science (AAS) degree, a one-year Certificate, and a Minor. In collaboration with the Department of Technology Management, the IS&T department offers a Bachelor of Science in Technology Management with a Specialization in Information Systems and Technology.

The Bachelor of Science in Information Systems (IS) prepares students to become IS Professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs. The focus is on leveraging business technology for strategic advantage. The BS IS includes a significant business component, preparing students for careers as applications software developers, business systems information architects, consultants, e-business developers, information systems auditors, programmer/analysts, systems analysts, and web designer/programmers.

Students completing the Bachelor of

Science in Information Technology (IT) learn to install, manage, and maintain the computing infrastructure on which organizational systems run. The BS IT includes three areas of emphasis: Database Administration, Enterprise Systems, and Network Administration and Security. The Database Administration Concentration grooms students for employment as database administrators, data analysts, and enterprise database architects. Students in the Enterprise Systems Concentration pursue careers as Internet developers, IT consultants, enterprise software architects, and web administrators. And the Network Administration and Security Concentration enables students to work as data communication consultants, information security analysts, and network administrators.

The Bachelor of Science in Technology Management is a multidisciplinary program for students wishing to add management skills to a chosen technology area. Students graduating with BS Technology Management – Information Systems and Technology Specialization are prepared for careers as project managers and as IT supervisors.

The Associate in Applied Science (AAS) in Information Systems and Technology is a two-year program designed to give students job-ready skills in computer operations, IT support (Help Desk), networking, programming, or web development. Students complete a foundational core and then elect a specialization through a rich set of technical electives. For students looking ahead to a bachelor's degree, the Associate in Science (AS) in Information Systems and Technology allows students to finish their general education requirements while getting a jump-start on the IS&T core.

In addition to two- and four-year degree programs in information systems and information technology, the IS&T Department offers a Minor and two specializations in Network Administration. The Minor in Information Systems gives students with a business or liberal arts major, the option of strengthening their general studies with technical coursework. For those students interested in computer networking and server administration, there are two alternatives - a one-year Certificate in Network Administration and the Network Administration Emphasis for those pursuing a Bachelor's degree in Integrated Studies.

Certificate in

Network Administration 31 CREDITS

Discipline Core Requirements: 25 Credits

Complete the following:

- INFO 1120 Information Systems and Technology Fundamentals 3.0
- INFO 1200 Computer Programming I for IS/IT 3.0

Information Systems and Technology

- INFO 1420 Computer Architecture and Systems Software 3.0
 - INFO 1510 UNIX/Linux Operating System 3.0
 - INFO 2030 Data Communication Fundamentals 3.0
 - INFO 2050 Database Fundamentals 3.0
- Communication Requirement:
- ENGL 106A Career Writing for Technology--A 2.0
- Computation Requirement:
- MAT 1010 Intermediate Algebra 4.0
- Human Relations Requirement:
- MGMT 2250 Job Application and Advancement Skills 1.0

Elective Requirements: 6 Credits

Choose 6 credits from the following courses :

- INFO 1000 Computer Programming Concepts (3.0)
- INFO 2640 Router Management (3.0)
- INFO 2650 Voice and Data Cabling Fundamentals (3.0)
- INFO 2660 Information Security--Fundamentals (3.0)
- INFO 3030 Networks and Internetworking (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- INFO 3620 System Administration--Windows (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)

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 UVSC.

AAS in Information Systems and Technology 65 CREDITS

General Education Requirements: 17 Credits

- ENGLISH
- ENGL 1010 Introduction to Writing 3.0
- MATHEMATICS
- MATH 1050 College Algebra 4.0
 - or Any higher Mathematics Course
- HUMANITIES/FINE ARTS/FOREIGN LANGUAGE
- Any approved Humanities, Fine Arts, or Foreign Language Distribution course 3.0
- SOCIAL AND BEHAVIORAL SCIENCE
- ECON 2020 Macroeconomics (fulfills Social/Behavioral Science) 3.0
- BIOLOGY OR PHYSICAL SCIENCE
- PHYS 1010 Elementary Physics 3.0
- PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT
- Any approved Physical Education, Health, Safety or Environment Course 1.0

Discipline Core Requirements: 42 Credits

- Written Communication Requirement:
- ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
 - or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
- IT Application Domain Requirement (6.0):
- Accounting Domain Option -
- ACC 2010 Financial Accounting 3.0
 - and ACC 2020 Managerial Accounting or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0) 3.0
- and Any approved Accounting- or Business-related Course (2.0)
- Or any other approved IT Application Domain Core Requirements:
- INFO 1120 Information Systems and Technology Fundamentals 3.0
 - INFO 1200 Computer Programming I for IS/IT 3.0
 - INFO 1420 Computer Architecture and Systems Software 3.0
 - INFO 1510 Introduction to System Administration--Linux/UNIX 3.0
 - INFO 2030 Data Communication Fundamentals 3.0
 - INFO 2050 Database Fundamentals 3.0
 - INFO 2200 Computer Programming II for IS/IT 3.0
 - INFO 2450 Web Application Design 3.0
 - INFO 3030 Networks and Internetworking 3.0
 - INFO 3410 Database Systems 3.0
 - INFO 3430 Systems Analysis Design and Integration 3.0

Elective Requirements: 6 Credits

Choose a minimum of 6 credits from the following:

- INFO 1000 Computer Programming Concepts (3.0)
- INFO 2640 Router Management (3.0)
- INFO 2650 Voice and Data Cabling Fundamentals (3.0)

- INFO 281R Internship (1.0)
- INFO 301R Digital Lecture Series (1.0)
- INFO 3120 Principles of Information Systems--A Managerial Approach (3.0)
- INFO 3420 Web Systems Development I (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- INFO 3620 System Administration--Windows (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)
- INFO 3660 Information Security--Network Defense and Countermeasures (3.0)
- Any other department-approved elective

Graduation Requirements:

- 1 Completion of a minimum of 65 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 UVSC.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

AS Pre Major in Information Systems and Technology 61 CREDITS

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
 - ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0)
 - or ENGL 2020 Intermediate Writing--Science and Technology 3.0
 - MATH 1050 College Algebra 4.0
- Complete one of the following:
- HIST 2700 US History to 1877 (3.0)
 - and HIST 2710 US History since 1877 (3.0)
 - HIST 1700 American Civilization (3.0)
 - HIST 1740 US Economic History (3.0)
 - POLS 1000 American Heritage (3.0)
 - POLS 1100 American National Government (3.0)

- Complete the following:
- PHIL 2050 Ethics and Values 3.0
 - HLTH 1100 Personal Health and Wellness (2.0) 2.0
 - or PES 1097 Fitness for Life 2.0
- Distribution Courses
- ECON 2020 Macroeconomics (fulfills Social/Behavioral Science) 3.0
 - Biology Distribution 3.0
 - Physical Science Distribution 3.0
 - An Additional Biology or Physical Science Course 3.0
 - Fine Arts Distribution 3.0
 - Humanities Distribution 3.0

Discipline Core Requirements: 25 Credits

- MATH 1100 Introduction to Calculus 4.0
- INFO 1120 Information Systems and Technology Fundamentals 3.0
- INFO 1200 Computer Programming I for IS/IT 3.0
- INFO 1420 Computer Architecture and Systems Software 3.0
- INFO 1510 Introduction to System Administration--Linux/UNIX 3.0
- INFO 2050 Database Fundamentals 3.0
- INFO 2200 Computer Programming II for IS/IT 3.0
- INFO 2450 Web Application Design 3.0

Graduation Requirements:

- 1 Completion of a minimum of 61 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 UVSC.
- 4 Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.

BS in Information Systems 122 CREDITS

General Education Requirements: 36 Credits

- ENGL 1010 Introduction to Writing 3.0
 - ENGL 2010 Intermediate Writing--Humanities/Social Sciences 3.0
 - or ENGL 2020 Intermediate Writing--Science and Technology (3.0)
 - MATH 1050 College Algebra 4.0
- Complete one of the following:
- HIST 2700 US History to 1877 (3.0)

- and HIST 2710 US History since 1877 (3.0)
- HIST 1700 American Civilization (3.0)
- HIST 1740 US Economic History (3.0)
- POLS 1000 American Heritage (3.0)
- POLS 1100 American National Government (3.0)

- Complete the following:
- PHIL 2050 Ethics and Values 3.0
 - HLTH 1100 Personal Health and Wellness 2.0
 - or PES 1097 Fitness for Life (2.0)

Distribution Courses

- ECON 2020 Macroeconomics (fulfills Social/Behavioral Science) 3.0
- Biology Distribution 3.0
- Physical Science Distribution 3.0
- An Additional Biology or Physical Science Distribution Course 3.0
- Fine Arts Distribution 3.0
- Humanities Distribution 3.0

Discipline Core Requirements: 71 Credits

- Math Requirements:
- MATH 1100 Introduction to Calculus 4.0
 - MGMT 2340 Business Statistics I 3.0
 - or MATH 2040 Principles of Statistics (4.0)
- IS Environment/Business Foundation Requirements:
- ACC 2010 Financial Accounting 3.0
 - and ACC 2020 Managerial Accounting 3.0
 - or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
- and Any approved Accounting- or Business-related course (2.0)
- MGMT 2200 Business Communications 3.0
 - MGMT 3000 Organizational Behavior 3.0
 - MGMT 3100 Principles of Finance 3.0
 - MGMT 3600 Principles of Marketing 3.0

IS Core Requirements:

- INFO 1120 Information Systems and Technology Fundamentals 3.0
- INFO 1200 Computer Programming I for IS/IT 3.0
- INFO 1420 Computer Architecture and Systems Software 3.0
- INFO 1510 Introduction to System Administration--Linux/UNIX 3.0
- INFO 2030 Data Communication Fundamentals 3.0
- INFO 2050 Database Fundamentals 3.0
- INFO 2200 Computer Programming II for IS/IT 3.0
- INFO 2450 Web Application Design 3.0
- INFO 301R Digital Lecture Series 1.0
- INFO 3120 Principles of Information Systems--A Managerial Approach 3.0
- INFO 3410 Database Systems 3.0
- INFO 3420 Web Systems Development I 3.0
- INFO 3430 Systems Analysis Design and Integration 3.0
- INFO 4050 Global Ethical and Professional Issues in Technology 3.0
- or TECH 4050 Global Ethical and Professional Issues in Technology (3.0)
- or CS 3050 Computer Ethics (3.0)

Project Experience:

- INFO 3400 Project Management 3.0
- or TECH 3400 Project Management (3.0)
- INFO 4550 Senior Project 3.0
- or INFO 481R Internship (1.0)

Elective Requirements: 15 Credits

Select 15 credits from the following:

- INFO 1000 Computer Programming Concepts (3.0)
- INFO 2660 Information Security--Fundamentals (3.0)
- INFO 3030 Networks and Internetworking (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- INFO 3620 System Administration--Windows (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)
- INFO 3660 Information Security--Network Defense and Countermeasures (3.0)
- INFO 4410 Database Administration (3.0)
- INFO 4420 Web Systems Development II (3.0)
- INFO 4440 Software Acquisition Implementation and Integration (3.0)
- INFO 4460 Enterprise Database Architecture (3.0)
- INFO 459R Current Topics in Information Systems and Technology (3.0)
- MGMT 3010 Principles of Management (3.0)
- Other approved elective (3.0)

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.

Information Systems and Technology

- 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 UVSC, 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.

BS in

Information Technology 124 Credits

General Education Requirements: 40 Credits	
• ENGL 1010	Introduction to Writing 3.0
• ENGL 2010	Intermediate Writing--Humanities/Social Sciences 3.0
or ENGL 2020	Intermediate Writing--Science and Technology (3.0)
• MATH 1050	College Algebra 4.0
Complete one of the following: 3.0	
• HIST 2700	US History to 1877 (3.0)
and HIST 2710	US History since 1877 (3.0)
• HIST 1700	American Civilization (3.0)
• HIST 1740	US Economic History (3.0)
• POLS 1000	American Heritage (3.0)
• POLS 1100	American National Government (3.0)
Complete the following:	
• PHIL 2050	Ethics and Values 3.0
• HLTH 1100	Personal Health and Wellness 2.0
or PES 1097	Fitness for Life (2.0)
Distribution Courses	
• Biology Distribution	3.0
• Fine Arts Distribution	3.0
• Social/Behavioral Science Distribution	3.0
• ENGL 2310	Technical Communication (fulfills Humanities) 3.0
• PHYS 2010	College Physics I (fulfills Physical Science) 4.0
and PHYS 2015	College Physics I Lab 1.0
• PHYS 2020	College Physics II (fulfills additional Biology or Physical Science) 4.0
and PHYS 2025	College Physics II Lab 1.0
Discipline Core Requirements: 63 Credits	
Math Requirement:	
• MATH 1100	Introduction to Calculus 4.0
• INFO 2230	Data and Discrete Structures (3.0)
or CS 2300	Discrete Structures I 3.0
• MATH 2040	Principles of Statistics 4.0
or MGMT 2340	Business Statistics I (3.0)
IT Core Requirements:	
• INFO 1120	Information Systems and Technology Fundamentals 3.0
• INFO 1420	Computer Architecture and Systems Software 3.0
• INFO 1510	Introduction to System Administration--Linux/UNIX 3.0
• INFO 2660	Information Security--Fundamentals 3.0
• INFO 301R	Digital Lecture Series 1.0
• INFO 3430	Systems Analysis Design and Integration 3.0
• CS 4410	Human Factors in Software Engineering 3.0
or DGM 2240	Interaction Design (3.0)
IT Pillar Courses:	
• INFO 1200	Computer Programming I for IS/IT 3.0
• INFO 2030	Data Communication Fundamentals 3.0
• INFO 2050	Database Fundamentals 3.0
• INFO 2450	Web Application Design 3.0
Advanced IT Pillar Courses:	
• INFO 2200	Computer Programming II for IS/IT 3.0
Select 3 credits from the following: 3.0	
• INFO 3030	Networks and Internetworking (3.0)
• INFO 3410	Database Systems (3.0)
• INFO 3420	Web Systems Development I (3.0)
Project Experience:	
• INFO 3400	Project Management 3.0
or TECH 3400	Project Management (3.0)
• INFO 4550	Senior Project 3.0
or INFO 481R	Internship (1.0)
IT Application Domain Requirement: 6.0	
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.)	
Some possible application domains are:	
• Accounting/IT Auditor	
• Business	
• Communications	
• Computer Science	
• Construction	
• Criminal Justice	
• Forensics	
• Geographic Information Systems	
• Health professions	

- Hospitality Management
- Manufacturing/Production
- Military Science
- Multimedia/Digital Media
- Physical Sciences
- Social Sciences

Business Domain - (**Required for Enterprise Systems concentration)

- MGMT 2200 Business Communications (3.0)
- MGMT 3600 Principles of Marketing (3.0)

Professional Ethics:

- INFO 4050 Global Ethical and Professional Issues in Technology 3.0
- or TECH 4050 Global Ethical and Professional Issues in Technology (3.0)
- or CS 3050 Computer Ethics (3.0)

Emphasis:

Complete one of the following:

- Database Administration 21.0
- Enterprise Systems 21.0
- Network Administration and Security 21.0

Graduation Requirements:

- Completion of at least 124 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 UVSC, 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.

Emphasis in

Database Administration 21 Credits

Emphasis Elective Requirements: 21 Credits

Select 21 credits from the following: 21.0

- INFO 1510 Introduction to System Administration--Linux/UNIX (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)
- INFO 4410 Database Administration (3.0)
- INFO 4460 Enterprise Database Architecture (3.0)
- INFO 4420 Web Systems Development II (3.0)
- Approved Business Elective (3.0)
- Additional Advanced IT Pillar (3.0)

Emphasis in

Enterprise Systems 21 Credits

Emphasis Elective Requirements: 21 Credits

Select 21 credits from the following, 12 credits must be 21.0 in Business:

- ACC 2010 Financial Accounting (3.0)
- and ACC 2020 Managerial Accounting (3.0)
- or ACC 3000 Financial Managerial and Cost Accounting Concepts (4.0)
- MGMT 3000 Organizational Behavior (3.0)
- MGMT 3100 Principles of Finance (3.0)
- INFO 3120 Principles of Information Systems--A Managerial Approach (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 4420 Web Systems Development II (3.0)
- INFO 4440 Software Acquisition Implementation and Integration (3.0)
- Additional Advanced IT Pillar (3.0)

Emphasis in Network

Administration and Security 21 Credits

Emphasis Elective Requirements: 21 Credits

Select 21 credits from the following, 15 credits of which 21.0 must be upper division:

- INFO 1510 Introduction to System Administration--Linux/UNIX (3.0)
- INFO 2640 Router Management (3.0)
- INFO 2650 Voice and Data Cabling Fundamentals (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)
- INFO 3660 Information Security--Network Defense and Countermeasures (3.0)
- INFO 4030 Enterprise Network Architectures and Administration (3.0)
- INFO 4660 Computer Forensics (3.0)
- Additional Advanced IT Pillar (3.0)

Minor in Information Systems and Technology 21 Credits

Discipline Core Requirements: 9 Credits

Prerequisite:

- INFO 1120 Information Systems and Technology Fundamentals (3.0)

Complete the following:

- INFO 1200 Computer Programming I for IS/IT 3.0
- INFO 1420 Computer Architecture and Systems Software 3.0
- INFO 2050 Database Fundamentals 3.0

Elective Requirements: 12 Credits

Complete 12 credits from the following, 9 credits of 12.0 which must be upper division:

- INFO 1510 Introduction to System Administration--Linux/UNIX (3.0)
- INFO 2030 Data Communication Fundamentals (3.0)
- INFO 2200 Computer Programming II for IS/IT (3.0)
- INFO 2450 Web Application Design (3.0)
- INFO 2660 Information Security--Fundamentals (3.0)
- INFO 3030 Networks and Internetworking (3.0)
- INFO 3120 Principles of Information Systems--A Managerial Approach (3.0)
- INFO 3410 Database Systems (3.0)
- INFO 3420 Web Systems Development I (3.0)
- INFO 3440 Enterprise Database Development (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)
- INFO 3660 Information Security--Network Defense and Countermeasures (3.0)

Graduation Requirements:

- 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 courses required for the minor

BA/BS in

Integrated Studies 123 Credits

The following Integrated Studies Emphasis is available (see the Integrated Studies section of this catalog for complete degree requirement listings.)

Emphasis in

Computer Networking 18 Credits

Emphasis Requirements: 18 Credits

Prerequisites:

- INFO 1120 Information Systems and Technology Fundamentals (3.0)
- INFO 1200 Computer Programming I for IS/IT (3.0)
- INFO 1420 Computer Architecture and Systems Software (3.0)

Complete the following:

- INFO 1510 Introduction to System Administration--Linux/UNIX 3.0
- INFO 2030 Data Communication Fundamentals 3.0
- INFO 2660 Information Security--Fundamentals 3.0

Complete 9 credits from the following: 9.0

- INFO 3030 Networks and Internetworking (3.0)
- INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
- INFO 3620 System Administration--Windows (3.0)
- INFO 3630 Advanced System Administration--Windows Server (3.0)
- INFO 3660 Information Security--Network Defense and Countermeasures (3.0)
- INFO 4030 Enterprise Network Architectures and Administration (3.0)
- INFO 4050 Global Ethical and Professional Issues in Technology (3.0)
- or TECH 4050 Global Ethical and Professional Issues in Technology (3.0)
- INFO 4660 Computer Forensics (3.0)

NOTE: A minimum of 2.5 GPA in all Specialty Core courses with no grade lower than a C- required for graduation.

BS in Technology

Management 124 Credits

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Information

Systems and Technology 45 Credits

Emphasis Requirements: 45 Credits

Specialty Core Requirements (33.0):		
• INFO 1120	Information Systems and Technology Fundamentals	3.0
• INFO 1200	Computer Programming I for IS/IT	3.0
• INFO 1420	Computer Architecture and Systems Software	3.0
• INFO 1510	Introduction to System Administration--Linux/UNIX	3.0
• INFO 2030	Data Communication Fundamentals	3.0
• INFO 2050	Database Fundamentals	3.0
• INFO 2200	Computer Programming II for IS/IT	3.0
• INFO 2450	Web Application Design	3.0
• INFO 3030	Networks and Internetworking	3.0
• INFO 3410	Database Systems	3.0
• INFO 3430	Systems Analysis Design and Integration	3.0

Elective Requirements: 6 Credits

- Complete a minimum of 6 credits from the following: 6.0
- INFO 1000 Computer Programming Concepts (3.0)
 - INFO 1100 Exploring the Digital Domain (3.0)
 - INFO 2100 Business Computer Productivity with IS Technology (3.0)
 - INFO 2640 Router Management (3.0)
 - INFO 2650 Voice and Data Cabling Fundamentals (3.0)
 - INFO 2660 Information Security--Fundamentals (3.0)
 - INFO 281R Internship (1.0)
 - INFO 301R Digital Lecture Series (1.0)
 - INFO 3420 Web Systems Development I (3.0)
 - INFO 3440 Enterprise Database Development (3.0)
 - INFO 3510 Advanced System Administration--Linux/UNIX (3.0)
 - INFO 3620 System Administration--Windows (3.0)
 - INFO 3630 Advanced System Administration--Windows Server (3.0)
 - INFO 3660 Information Security--Network Defense and Countermeasures (3.0)
 - Any approved Accounting- or Business-related Course up to 6 credits

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- INFO, Information Systems & Technology