As a student in the Information Science and Technology program, your classes will include a core set of courses that will provide you with understanding of programming concepts, data structures, tools for project control, web design, database management, computer internals, data science, computer networking, technology management, and e-commerce. Your undergraduate degree will also emphasize the role of technology in business. Graduates in this field pursue a variety of careers in the information technology sector.

You will join your Business and Management Systems classmates in a common core set of classes. These classes reflect the theme of integration of business and technology, and represent information technology, management, quantitative, and communication skills. Finally, all of your coursework rests on a broad foundation of general education classes from humanities, social sciences, physical sciences, and mathematics.

To prepare yourself for a beginning career in business, you will also take 15 credit hours of Information Science and Technology Electives. Students are encouraged to pursue one or more of over a dozen minors offered by the Department of Business and Information Technology in fields such as Artificial Intelligence and Machine Learning, Business Analytics and Data Science, Business Applications and Software Development, Cybersecurity Management and Information Assurance, Electronic and Social Commerce, Enterprise Resource Planning, Human-Computer Interaction and User Experience, and Mobile Business and Technology. In addition, all Information Science and Technology students are eligible for a minor in Business without any additional elective coursework.

Popular Professions in the Field
(Preparation for some of these careers requires specific courses)
- Artificial Intelligence and Machine Learning
- Business Analytics and Data Science
- Computer Networks - Network Analysis, Network Support, Network Management
- Cybersecurity and Information Assurance
- E-Commerce and Mobile Business - Web Site Design, E-Commerce Business Strategy
- Human-Computer Interaction - Usability Analysis, Interface Design
- Project Management
- Sales, Marketing - Customer Operations Analysis, Technical Marketing, Product Support
- Software Systems - Software Design, Hardware/Software Needs Assessment
- Systems and Network Administration

Average starting salaries - Career Opportunities and Employer Relation Statistics
$64,166 - for B.S. in Information Science and Technology from S&T
$3,231 - average monthly salary for Co-ops
$3,369 -average monthly salary for Summer Internships

Top Hiring Employers: Boeing, Accenture, Cerner, AT&T, Monsanto, Google, Walmart, MasterCard, Deloitte
Information Science and Technology B.S.
Curriculum Checklist for Catalog Term Spring 2021

I. General Education (51 credit hours)

(1) Introduction to College Success, BUS 1810

Natural Systems (10 credit hours)

(3) General Psychology, PSYCH 1101
(3) Science Elective

Human Institutions (15 credit hours)

(3) Fine Art, Social Science, or Humanities Elective
(3) History Elective
(3) Principles of Microeconomics, ECON 1100
(3) Principles of Macroeconomics, ECON 1200
(3) American Government, POL SCI 1200

Quantitative Skills (10 credit hours)

(3) College Algebra, MATH 1140
(4) Business Calculus, MATH 1212
(3) Statistical Tools For Decision Making, STAT 3111

Communication Skills (15 credit hours)

(3) Principles of Speech, SP&M S 1185
(3) Exposition and Argumentation, ENGLISH 1120
(3) Intro to Tech Com, ENGLISH 1600 / TCH COM 1600
(3) Tech Com Marketing, ENGLISH 2560 / TCH COM 2560
(3) Intro to Web Design and Digital Media Studies, IS&T 4654

II. Common Core Courses (27 credit hours)

Information Technology (12 credit hours)

(3) Introduction to Management Information Systems, IS&T 1750
(3) Algorithms and Programming with Java, IS&T 1561
(3) Java and Data Structures, IS&T 1562
(3) Introduction to Enterprise Resource Planning, ERP 2110

Management (12 credit hours)

(3) Introduction to Management and Entrepreneurship, BUS 1110
(3) Financial Accounting, BUS 1210
(3) Corporate Finance I, FINANCE 2150
(3) Marketing, MKT 3110

Entrepreneurship and Innovation (3 credit hours)

(3) Business Models for Entrepreneurship and Innovation, BUS 5980

III. IS&T Core (18 credit hours)

(3) Computing Internals and Operating Systems, IS&T 3131
(3) Data Networks and Information Security, IS&T 3333
(3) Systems Analysis, IS&T 3343
(3) Introduction to Data Science and Management, IS&T 3420
(3) Database Management, IS&T 3423
(3) Digital Commerce and the Internet of Things, IS&T 4641

IV. IS&T Electives (15 credit hours)

Select any five courses (at 3000-level or above) from IS&T or ERP or COMP SCI 4700 or COMP SCI 5601.
Optional classes are listed below.

Artificial Intelligence, Business Analytics and Data Science

(3) Business Analytics and Data Science, IS&T 5420
(3) Introduction to Information Visualization, IS&T 5450
(3) Data Science and Machine Learning with Python, IS&T 5520
(3) Machine Learning Algorithms and Applications, IS&T 5535

Cybersecurity and Information Assurance

(3) Human and Organizational Factors in Cybersecurity, IS&T 4780
(3) Security Operations and Program Management, COMP SCI 5601

Enterprise Resource Planning (ERP)

(3) ERP Systems Design and Implementation, ERP 5110
(3) ERP in Small and Mid Size Enterprises, ERP 5130
(3) Performance Visualization, ERP 5210
(3) Introduction to Dashboard Prototyping, ERP 4220
(3) Application Development and Software Security, ERP 5240
(3) Supply Chain in ERP, ERP 5310
(3) Use of Business Intelligence, ERP 5410
(3) Customer Relationship Management in ERP, ERP 4610
(3) Introduction to Data Warehouses, IS&T 4444

Human-Computer Interaction and User Experience

(3) Digital Media Development and Interactive Design, IS&T 5680
(3) Human-Computer Interaction, IS&T 5885
(3) Prototyping Human-Computer Interactions, IS&T 5886
(3) Human-Computer Interaction Evaluation, IS&T 5887

Other IS&T Electives

(3) Information Systems Project Management, IS&T 4261
(3) Technological Innovation Management, IS&T 5251
(3) Fundamentals of Mobile Technology for Business, IS&T 5335
(3) Intellectual Property for Computer Scientists, COMP SCI 4700

V. Free Electives (9 credit hours)

(3) ______________________________
(3) ______________________________
(3) ______________________________

1 Writing intensive course
2 Any course in the following areas: biology, chemistry, geology, geological engineering, physics
3 Any course in the following areas that is not used for other degree requirements: art, economics, English, foreign language, history, literature, music, philosophy, political science, psychology, sociology, theater
4 HISTORY 1100 or HISTORY 1200 or HISTORY 1300 or HISTORY 1310
5 A grade of 'C' or better is required
6 MATH 1120 may be substituted for MATH 1140

updated 10/19/2020