



# Business and Information Technology

## B.S. in Business & Management Systems

As a student in Business and Management Systems, your classes will include a business core consisting of courses in financial accounting, managerial accounting, management and organizational behavior, business law, marketing, finance, operations, statistics, and strategic management. Your undergraduate degree will also emphasize the role of technology in business. Graduates in this field analyze organizational needs to provide technology-enabled management and operations solutions. To prepare yourself for a beginning career in business, you may also opt for a minor in Business Analytics, Digital Supply Chain Management, Electronic and Social Commerce, Enterprise Resource Planning (ERP), Entrepreneurship, Finance, Human-Computer Interaction (HCI), Information Science & Technology (IST), Management, and/or Marketing.

You will join your Information Science & Technology 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 the humanities, social sciences, physical sciences, and mathematics.

### Common Career Professions

Banking	Product Management
Investment Management	Human Resource Management
Brand Management	Project Management
Management	Information Systems Management
Finance	Retailing
Marketing	Insurance
Entrepreneurship	Sales
Operations & Production Management	International Business
Enterprise Resource Planning	Supply Chain Management

### Career Opportunities & Employer Relation Statistics 2015-2016

\$62,786 - Average starting salary for B. S. in Business & Management Systems

\$77,272 - Average starting salary for Masters in Business Administration (MBA)

\$2,719 - Average monthly salary for Summer Interns

Top Hiring Employers 2015-2016: Cerner, MasterCard, Accenture, Oracle, RSM, Missouri S&T

## I. General Education (51 credit hours)

- (1) \_\_\_ Introduction to College Success, BUS 1810<sup>1</sup>

### Natural Systems (10 credit hours)

- (3) \_\_\_ General Psychology, 1101  
(3) \_\_\_ Science Elective<sup>3</sup>  
(3) \_\_\_ Science Elective<sup>3</sup>  
(1) \_\_\_ Science Laboratory

### Human Institutions (15 credit hours)

- (3) \_\_\_ Fine Art, Social Science, or Humanities Elective<sup>2</sup>  
(3) \_\_\_ History Elective  
(3) \_\_\_ Microeconomics, ECON 1100<sup>5</sup>  
(3) \_\_\_ Macroeconomics, ECON 1200<sup>5</sup>  
(3) \_\_\_ American Government, POL SCI 1200

### Quantitative Skills (10 credit hours)

- (3) \_\_\_ College Algebra, MATH 1140 or MATH 1120  
(4) \_\_\_ Business Calculus, MATH 1212  
(3) \_\_\_ Statistical Tools for Decision Making, STAT 3111

### Communication Skills (15 credit hours)

- (3) \_\_\_ Principles of Speech, SP&MS 1185  
(3) \_\_\_ Exposition and Argumentation, ENGL 1120  
(3) \_\_\_ Intro to Tech Com, ENGL/TCH COM 1600  
(3) \_\_\_ Technical Marketing Communication, ENGL/TCH COM 2560  
(3) \_\_\_ Web and Digital Media Development, IST 4654

## II. Common Core Courses (27 credit hours)<sup>5</sup>

### Information Technology (12 credit hours)

- (3) \_\_\_ Intro. to Mgt. Info. Systems, IST 1750  
(3) \_\_\_ Implementation of IS I, IST 1551  
(3) \_\_\_ Implementation of IS II, IST 1552  
(3) \_\_\_ Intro. to Enterprise Resource Planning, ERP 2110

### Management (9 credit hours)

- (3) \_\_\_ Financial Accounting, BUS 1210  
(3) \_\_\_ Corporate Finance I, FIN 2150  
(3) \_\_\_ Marketing, MKT 3110

### Entrepreneurship & Innovation (6 credit hours)

- (3) \_\_\_ Management & Entrepreneurship, BUS 1110  
(3) \_\_\_ Bus. Models for Entrepreneurship & Innovation, BUS 5980<sup>1</sup>

## III. BUS Core (18 credit hours)<sup>5</sup>

- (3) \_\_\_ Business Law, BUS 2910  
(3) \_\_\_ Managerial Accountings, BUS 3220  
(3) \_\_\_ Business Operations, BUS 5360  
(3) \_\_\_ Strategic Management, BUS 5580  
(3) \_\_\_ Digital Marketing and Promotions, MKT 5310  
(3) \_\_\_ International Business, BUS 4675

## IV. BUS Electives (15 credit hours)<sup>5</sup>

Select any **five** 3000-5000 level class from BUS, MKT, FIN, ERP, or IST (A "C" or better grade is required from all 12 credit hours). Optional classes listed below:

### Business Trends

- (3) \_\_\_ Machine Learning & Artificial Intelligence for Business, BUS 5730  
(3) \_\_\_ Privacy and Information Security Law, BUS 5910  
(3) \_\_\_ Law & Ethics in E-Commerce, IST 5168

### IST Electives

- (3) \_\_\_ Computing Internals and Operating Systems, IST 3131  
(3) \_\_\_ Data Networks & Information Security, IST 3333  
(3) \_\_\_ Systems Analysis, IST 3343  
(3) \_\_\_ Database Management, IST 3423  
(3) \_\_\_ Electronic and Mobile Commerce, IST 4641  
(3) \_\_\_ Network Economy, IST 4257  
(3) \_\_\_ Fundamentals of Mobile Technology for Business, IST 4335

### Business Analytics & Data Science

- (3) \_\_\_ Intro. to Data Science & Management, IST 3420  
(3) \_\_\_ Database Management, IST 3423  
(3) \_\_\_ Intro to Information Visualization, IST 4450  
(3) \_\_\_ Business Analytics & Data Science, IST 5420  
(3) \_\_\_ Data Methodologies in Python, IST 5520

### Enterprise Resource Planning (ERP)<sup>4</sup>

- (3) \_\_\_ ERP Systems Design & Implementation, ERP 5110  
(3) \_\_\_ Customer Relationship Mgmt. in ERP Environ, ERP 4610  
(3) \_\_\_ ERP in Small and Mid Size Enterprises, ERP 5130  
(3) \_\_\_ Enterprise Portal & Mobile Application Development, ERP 5240  
(3) \_\_\_ Supply Chain Mgmt. Systems in ERP Environ, ERP 5310  
(3) \_\_\_ Use of Business Intelligence, ERP 5410  
(3) \_\_\_ Performance, Dashboard, Scorecard & Data Visualization, ERP 5210

### Finance

- (3) \_\_\_ Corporate Finance II, FIN 5160  
(3) \_\_\_ Investments I, FIN 5260  
(3) \_\_\_ Financial Statement Analysis, BUS 5230  
(3) \_\_\_ Financial Modeling, FIN 5310

### Human-Computer Interaction

- (3) \_\_\_ Human-Computer Interaction, IST 5885  
(3) \_\_\_ Prototyping Human-Computer Interactions, IST 5886  
(3) \_\_\_ Human-Computer Interaction Evaluation, IST 5887  
(3) \_\_\_ Intro to Web & New Media Studies, IST 4680

### Management

- (3) \_\_\_ Business Negotiations, BUS 4111  
(3) \_\_\_ Intro. to Teambuilding & Leadership, BUS 3115  
(3) \_\_\_ Tech. Innovations Mgmt. & Leadership, IST 5251  
(3) \_\_\_ Human Resource Management, BUS 5470

### Marketing

- (3) \_\_\_ Consumer Behavior, MKT 3210  
(3) \_\_\_ Customer Focus and Satisfaction, MKT 4150  
(3) \_\_\_ Marketing Strategy, MKT 4580  
(3) \_\_\_ Digital Marketing & Promotions, MKT 5310  
(3) \_\_\_ Marketing for Non-Profits, MKT 5320

1 In-Major Writing Intensive

2 Any course in the following areas not used for other degree requirements: Art, Economics, English, Foreign Language, History, Literature, Music, Philosophy, Political Science, Psychology, Sociology, Theater.

3 Biology, Chemistry, Geology, Geological Engineering, Physics.

4 Students with an ERP emphasis will be eligible for a SAP Certificate of Excellence, authorized by the SAP Corporation.

5 A grade of "C" or better is required in these courses.