

 BUSINESS AND MANAGEMENT SYSTEMS

A degree in business and management systems equips you for virtually any management position where expertise in information technology is advantageous. The program offers a unique integration of the latest information technology trends with a strong foundation of business. Graduates in this field analyze organizational needs to provide technology-enabled management and operations solutions.

Today’s business leaders must be comfortable in a complex digital environment and have the skills to solve problems by efficiently synthesizing, analyzing and learning from vast amounts of information. They must also understand the role of technology in business and maximize its efficiency to support business operations and decision-making. Thus, all business majors are eligible to receive a minor in information science and technology without any additional coursework.

## DEGREE CURRICULUM

#### Business Core

Your classes will include a core set of courses that will provide you with understanding of management, entrepreneurship, accounting, corporate finance, marketing, business law, business operations, business negotiations, and strategic management.

#### Business Electives

To prepare yourself for a beginning career, you will take at least fifteen credits (five courses) of business electives. You are encouraged to designate areas of concentration by pursuing one of a dozen minors offered by our department in many popular, high-demand areas.

#### Common Core

You will join your information science and technology class- mates 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.

#### Experiential Learning

You will be required to engage in an experiential learning activity. These activities are designed to require you to go beyond mastering basic skills and knowledge in the practical application of that material, and allow you to learn in envi- ronments that align with your aptitudes.

## POPULAR PROFESSIONS

(Preparation for some of these careers requires specific courses.)

#### Business Analytics and Data Science

Data Analyst/Scientist, Information Visualization Specialist, Business Analyst

#### Business Operations

Business Process Designer, Product Manager, Logistics Coordinator

#### Digital Commerce

E-commerce Manager, Internet of Things Solutions Analyst, Website Designer

#### Enterprise Resource Planning

Business Intelligence Analyst, ERP Consultant, Customer Relationship Manager, ERP Systems Analyst **Entrepreneurship and Innovation**

Technological Innovation Manager, Digital Transformation

Specialist, A.I. Prompt Engineer

#### Finance

Financial Technology Analyst, Blockchain, Investment Advisor

#### Management and Leadership

Business Negotiations, Human Resource Associate, Leader- ship Coach, Program Manager

#### Marketing and Sales

Marketing Strategist, Digital Marketing Specialist, Consumer Data Analyst, Social Media Strategist, Real Estate Agent

Business and Management Systems offers emphasis areas in Military Science and Leadership as well as Secondary Education - See Course Catalog for details.

# $63,765

Average starting salary for undergraduates as of 2024

# $83,251

Average starting salary for MBA graduates as of 2024

# $3,709

Average monthly salary for internships and co-ops as of 2022

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B.S. Business and Management Systems Degree Curriculum Effective Fall 2025

NOTE: Current students should consult their degree audit (found online at mydegree.mst.edu) to view their specific degree requirements. Degree requirements change over time. Students are normally held to the requirements in effect when they began their college studies. If you are a transfer student or have interrupted your studies, special rules may apply to your situation.

### General Education (35 credit hours)

* 1.  Introduction to College Success, BUS 1810

##### Natural Systems (10 credit hours)

(3)  General Psychology, PSYCH 11013

(6)  Science Elective1,3 (Must be from two disciplines.)

(1)  Science Lab3

##### Human Institutions (12 credit hours)

(3)  Fine Art or Humanities Elective2

(3)  Principles of Microeconomics, ECON 11003

(3)  Principles of Macroeconomics, ECON 12003

(3)  American Government, POL SCI 12003

##### Communication Skills (12 credit hours)

(3)  Principles of Speech, SP&M S 11853

(3)  Exposition and Argumentation, ENGLISH 11203

(3)  Intro to Web Design and Digital Media Studies, IS&T 4654

(3)  Technical Marketing Communication, ENGLISH/TCH COM 25603

### Common Core Courses (30 credit hours)

##### Information Technology (12 credit hours)

(3)  Introduction to Management Information Systems, IS&T 1750

(3)  Implementing Information Systems: User Perspective, IS&T 1551

(3)  Implementing Information Systems: Data Perspective, IS&T 1552

(3)  Introduction to Enterprise Resource Planning, ERP 2110

##### Marketing/Finance (12 credit hours)

(3)  Financial Accounting, BUS 1210

(3)  Corporate Finance I, FINANCE 2150

(3)  Marketing, MKT 3110

(3)  Financial Technology & Analytics, FINANCE 5310

##### Entrepreneurship and Innovation (6 credit hours)

(3)  Introduction to Management and Entrepreneurship, BUS 1110

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

### Business Core (21 credit hours)

(3)  Business Law, BUS 2910

(3)  Managerial Accounting, BUS 3220

(3)  Business Operations, BUS 5360

(3)  Strategic Management, BUS 5580

(3)  Business Negotiations, BUS 5111

(3)  Customer Focus and Satisfaction, BUS 5150

OR Digital Marketing and Promotions, MKT 5310

(3)  Machine Learning & Art. Intelligence for Bus, BUS 5730

### Business Electives (15 credit hours)

Select any five courses (at 3000-level or above) from BUS, ECON, FINANCE, ERP, IS&T, or MKT. Some optional classes are listed below.

##### Business Management and Trends

(3)  Human Resource Management, BUS 5470

(3)  Privacy and Information Security, BUS 5910

(3)  Management & Leadership of Tech. Innovation, IS&T 5251

##### Business Analytics and Data Science

(3)  Introduction to Data Science and Management, IS&T 3420

(3)  Database Management, IS&T 3423

(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

##### Enterprise Resource Planning (ERP)

(3)  ERP Software Development, ERP 4120

(3)  Intro to Enterprise Decision Dashboard Prototyping, ERP 4220

(3)  Customer Relationship Management IN ERP, ERP 4610

(3)  ERP Systems Design and Implementation, ERP 5110

(3)  ERP in Small and Mid Size Enterprises, ERP 5130

(3)  Performance Dashboard and Scorecard, ERP 5210

(3)  Application Development and Software Security, ERP 5240

(3)  Supply Chain Management Systems in ERP, ERP 5310

(3)  Use of Business Intelligence, ERP 5410

##### Finance and Financial Technology

(3)  Corporate Finance II, FINANCE 5160

(3)  Investments I, FINANCE 5260

(3)  Financial Statement Analysis, BUS 5230

Cybersecurity and User Experience

(3)  Digital Media Development and Interactive Design, IS&T 5680

(3)  Fundamentals of Cybersecurity, IS&T 5725

(3)  Human & Org. Factors in Cybersecurity Analytics, IS&T 5780

##### Marketing

(3)  Consumer Behavior, MKT 3210

(3)  Marketing Strategy, MKT 4580

(3)  Marketing for Non-Profits, MKT 5320

(3)  Marketing Revolution with Machine Learning, MKT 5762

(3)  Branding for Innovation, BUS 5810

### Quantitative Skills (8 credit hours)

(5)  Calculus I-A, MATH 1210

(3)  Statistics for the Social Sciences, STAT 1115

OR Statistical Tools For Decision Making, STAT 3111

### Free Electives (11 credit hours)

**120 Credit Hours**

A grade of "C" of better is required in the following courses for graduation: IS&T 1551, IS&T 1552, IS&T 1750, IS&T 4654, ERP 2110, FINANCE 2150, FINANCE 5310, MKT 3110, BUS 5150 OR MKT 5310, ECON 1100, ECON 1200, BUS 1110, BUS 1210, BUS 2910, BUS 3220, BUS 5111, BUS 5360, BUS

5580, BUS 5730, BUS 5980, and all Business Electives (any BUS, ERP, FINANCE, MKT, or IST designated course at the 3000-level or above).

1 Any course in two of the following areas: Biology, Chemistry, Geology, or Physics.

2 Any course in the following areas: Art, history, music, or theater.

3 General Education discipline required course. These fulfill the Missouri S&T general education requirements applicable to the student's catalog year.

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