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 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.

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 environments that align with your aptitudes.

POPULAR PROFESSIONS
(Preparation for some of these careers requires specific courses)

Business Analytics and Data Science
Data Modeling, Information Visualization, Business Operations Analysis

Business Operations
Business Process Design, Logistics, Supply Chain Management, Product Management

Digital Commerce
Digital Commerce Buiness Strategy, Internet of Things, Website Design

Enterprise Resource Planning
Business Intelligence, Performance Dashboard, Customer Relationship Management

Entrepreneurship
Business Models, Technological Innovation Management, Digital Transformation, Industry 4.0

Finance
Financial Technology and Analytics, Blockchain, Investment Management

Human-Computer Interaction
Usability Evaluation, Interface Design

Management and Leadership
Business Negotiations, Human Resource Management, Group Dynamics

Marketing and Sales
Marketing Strategy, Consumer Behavior, Digital Marketing and Promotions, Consumer Analytics

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.

I. General Education (31 credit hours)

(1) __ Introduction to College Success, BUS 1810

Natural Systems (6 credit hours)
(3) __ General Psychology, PSYCH 1101
(3) __ Science Elective[2]

Human Institutions (12 credit hours)
(3) __ Fine Art, Social Science, or Humanities Elective[3]
(3) __ Principles of Microeconomics, ECON 1100
(3) __ Principles of Macroeconomics, ECON 1200
(3) __ American Government, POL SCI 1200

Communication Skills (12 credit hours)
(3) __ Principles of Speech, SP&M S 1185
(3) __ Exposition and Argumentation, ENGLISH 1120
(3) __ Intro to Web Design and Digital Media Studies, IS&T 4654
(3) __ Technical Marketing Communication, ENGLISH/TCH COM 2560

II. 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

III. 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

IV. Business Electives (15 credit hours)

Select any **five** courses (at 2000-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 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
(3) __ Customer Relationship Management in ERP, ERP 4610

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) __ Human-Computer Interaction and User Experience, IS&T 5885
(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) __ Big Data Consumer Analytics, MKT 5410
(3) __ Marketing Revolution with Machine Learning, MKT 5762
(3) __ Branding for Innovation, BUS 5810

V. Quantitative Skills (14 credit hours)

(7) __ Mathematical Science[1] or Science Elective[2]
(4) __ Survey of Calculus, MATH 1212
(3) __ Statistics for the Social Sciences, STAT 1115
OR Statistical Tools For Decision Making, STAT 3111

VI. Free Electives (9 credit hours)

(3) __ _____
(3) __ _____
(3) __ _____

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 Mathematical Science is any MATH, STAT, COMPSCI or IST course not otherwise covered in the degree program. For definition of Science refer to footnote 2.
2 Any course in the following areas: Biology, Chemistry, Geology, Geological Engineering, Physics.
3 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.