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.

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.

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 or more of over a dozen minors offered by our department in many popular, high-demand areas.

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 Business 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
- **Marketing and Sales** - Marketing Strategy, Consumer Behavior, Digital Marking and Promotions, Consumer Analytics

AVERAGE STARTING SALARIES - CAREER OPPORTUNITIES AND EMPLOYER RELATION STATISTICS

$59,501	$68,750	$3,709
Average starting salary for undergraduates as of 2022	Average starting salary for MBA graduates as of 2022	Average monthly salary for internships and co-ops as of 2022

B.S. Business and Management Systems
Degree Curriculum Effective Fall 2023

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 (37 credit hours)

(1) __   Introduction to College Success, BUS 1810[1]

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

Human Institutions (15 credit hours)
(3) __   History Elective
(3) __   Fine Art, Social Science, or Humanities Elective[3]
(3) __   Principles of Microeconomics, ECON 1100[1]
(3) __   Principles of Macroeconomics, ECON 1200[1]
(3) __   American Government, POL SCI 1200

Communication Skills (15 credit hours)
(3) __   Principles of Speech, SP&M S 1185
(3) __   Exposition and Argumentation, ENGLISH 1120
(3) __   Intro to Technical Communication, ENGLISH / TCH COM 1600[4]
(3) __   Intro to Web Design and Digital Media Studies, IS&T 4654[1]
(3) __   Technical Marketing Communication, ENGLISH/TCH COM 2560

II. Common Core Courses (27 credit hours)[1]

Information Technology (12 credit hours)
(3) __   Introduction to Management Information Systems, IS&T 1750
(3) __   Information Systems: User Perspective, IS&T 1551
(3) __   Information Systems: Data Perspective, IS&T 1552
(3) __   Introduction to Enterprise Resource Planning, ERP 2110

Management (9 credit hours)
(3) __   Financial Accounting, BUS 1210
(3) __   Corporate Finance I, FINANCE 2150
(3) __   Marketing, MKT 3110

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 (18 credit hours)[1]

(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) __   Digital Marketing and Promotions, MKT 5310

IV. Business Electives (15 credit hours)[1]

Select any **five** courses (at 2000-level or above) from BUS, ECON, FINANCE, ERP, IS&T, or MKT. Optional classes are listed below.

Business Management and Trends
(3) __   Human Resource Management, BUS 5470
(3) __   Machine Learning and AI for Business, BUS 5730
(3) __   Privacy and Information Security, BUS 5910
(3)__   Digital Commerce and IoT Analytics, IS&T 4641
(3) __   Management & Leadership of Tech. Innovation, IS&T 5251
(3) __   Fundamentals of Mobile Technology for Business, IS&T 5335

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

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 Technology and Analytics, FINANCE 5310
(3) __   Financial Statement Analysis, BUS 5230

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

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

V. Quantitative Skills (14 credit hours)

(7) __   Mathematical Science Elective[5]
(4) __   Survey of Calculus, MATH 1212[6]
(3) __   Statistical Tools For Decision Making, STAT 3111

VI. Free Electives (9 credit hours)

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

1 A grade of 'C' or better is required in these courses.
2 Science is any course in biological science, chemistry, geology, geological engineering or physics.
3 Fine Arts, Social Science, or Humanities is any course in art, economics, English, foreign language, history, literature, music, philosophy, political science, psychology, sociology or theater that is not used for other degree requirements.
4 ENGLISH 1160 may be substituted for ENGLISH/TECH COM 1600.
5 Mathematical Science is any course in mathematics, statistics, computer science or information science and technology that is not used for other degree requirements.
6 A grade of 'C' or better is required in this course as a prerequisite to STAT 3111.