MANAGEMENT INFORMATION SYSTEMS B.S. IN BUSINESS ADMINISTRATION

The Management Information Systems STEM curriculum prepares students to manage an organization's information resources. The major focuses on:

1. analyzing and synthesizing information flows within and across the organization's business processes;
2. effectively managing the acquisition, deployment, and utilization of information systems; and
3. using both information and information technology to enhance the organization's strategic advantage.

The knowledge and skills developed in the curriculum lead to careers in data analytics, cybersecurity, consulting, application development, infrastructure management, systems analysis, technology and design, electronic commerce, and project management.

Bachelor of Science in Business Administration - Management Information Systems

General Education Requirements

Information regarding these requirements can be found in the General Education Section (http://catalog.umt.edu/academics/general-education-requirements/) of the catalog.

Summary

Code	Title	Hours
College of Business Requirements		51-53
Primary Lower Core Courses		
Math Requirement		
Statistics Requirement		
Secondary Lower Core Courses		
Upper Major Core Courses		
Capstone Course and Upper-Division Writing Requirement		
Management Information Systems Requirements		18
Management Information Systems Electives		6
Total Hours		**75-77**

Degree Specific Credits: 75-77

Required Cumulative GPA: 2.0

Notes:

- At least 54 credits must be earned in Business classes (ECNS, COB internship courses and College of Business faculty-led study abroad course may be counted in OR out of Business). A minimum GPA of 2.0 is required for these courses.
- At least 27 credits in business AND BMIS 476 must be taken at UM.
- All business credits transferred in after matriculating to UM must be pre-approved by the department chair in your major.

College of Business Requirements

Primary Lower Core Courses

Note: Unless a higher requirement is specified, all primary lower core courses must be completed with a C- or better and a 2.0 GPA in the six (6) listed courses prior to admission into an upper-division Business Major. A minimum grade of C or better is required for ACTG 201 and ACTG 202 as a prerequisite for ACTG 305.

Code	Title	Hours
Complete all of the following courses:		
ACTG 201	Principles of Financial Accounting	3
ACTG 202	Principles of Managerial Accounting	3
BGEN 105S	Introduction to Business	3
BGEN 222	Business Models and Operations	3
BMIS 270	MIS Foundations for Business	3
ECNS 201S	Principles of Microeconomics	3
Total Hours		**18**

Minimum Required Grade: C-

Math Requirement

Note: The College of Business requires that credit be earned for one of the math courses below with a C- or better before enrolling in ACTG 202. A student's result on any math placement exam does not waive this math requirement.

Code	Title	Hours
Complete one of the following courses:		**3-4**
M 115	Probability and Linear Mathematics	
M 121	College Algebra	
M 151	Precalculus	
M 162	Applied Calculus	
Total Hours		**3-4**

Minimum Required Grade: C-

Statistics Requirement

Note: This is a primary lower core course. The College of Business requires that credit be earned for STAT 216 (preferred) or one of the other statistics courses below with a C- or better prior to being admitted into an upper-division College of Business major.

Code	Title	Hours
Complete one of the following courses:		**3-4**
FORS 201	Forest Biometrics	
PSYX 222	Psychological Statistics	
SOCI 202	Social Statistics	
STAT 216	Introduction to Statistics (preferred)	
Total Hours		**3-4**

Minimum Required Grade: C-

Secondary Lower Core Courses

Note: All courses must be completed with a C- or better to satisfy prerequisites for certain major, upper major core, or capstone courses.

Students are advised to complete these courses prior to being admitted to an upper-division Business Major. Prerequisites are strictly enforced.

Code	Title	Hours
Complete all of the following courses:		
BGEN 220E	Business Ethics and Social Responsibility (Students must complete this course with a C- or better prior to taking the capstone, though earlier completion is strongly encouraged.) Ethical & Human Values Requirement	3
COMX 111A	Introduction to Public Speaking (Students must complete this course with a C- or better prior to taking the capstone, though earlier completion is strongly encouraged.) Expressive Arts Requirement	3
ECNS 202S	Principles of Macroeconomics Social Science Requirement	3
Total Hours		**9**

Minimum Required Grade: C-

Upper Major Core Courses
Note: All upper major core courses must be completed before the capstone can be taken. A student must be listed as a major or minor in business to take these courses. Major or minor in Business is defined as junior standing with all primary lower core courses completed, a 2.0 cumulative GPA, and formal admission to the major or minor.

Code	Title	Hours
Complete all of the following courses:		
BFIN 322	Business Finance	3
BGEN 341	People, Process and Technology I	3
BGEN 342	People, Process and Technology II	3
BGEN 361	Principles of Business Law	3
BMKT 325	Principles of Marketing	3
Total Hours		**15**

Minimum Required Grade: C-

Capstone and Upper-Division Writing Requirement
Notes:

- Students must complete all primary and secondary lower core and upper core courses and their prerequisites and have an approved graduation application to register for their capstones.
- Students must pass the required comprehensive exam as well as all requisite coursework to earn a passing grade in BGEN 499.
- BGEN 499 must be taken at UM.
- This course also satisfies the UM and College of Business upper-division writing requirement.

Code	Title	Hours
Complete the following course:		
BGEN 499	Strategic Management	3
Total Hours		**3**

Minimum Required Grade: C-

Management Information Systems Requirements
Notes:

- BMIS 365 and BMIS 476 must be taken at UM.
- 3 credits of BMIS 498 are required to graduate.

Code	Title	Hours
Complete all of the following courses:		
BMIS 326	Introduction to Data Analytics	3
BMIS 365	Business App Development	3
BMIS 372	Information Infrastructures	3
BMIS 373	Business System Analysis & Design	3
BMIS 476	Integrated Project Management for IS	3
BMIS 498	Internship	3
Total Hours		**18**

Minimum Required Grade: C-

Management Information Systems Electives

Code	Title	Hours
Complete 6 credits from the following courses:		**6**
ACTG 321	Accounting Information Systems I	
BMGT 467	Global Operations and Supply Chain Management	
BMIS 370	Managing Information and Data	
BMIS 391	Special Topics	
BMIS 465	Introduction to Real-time Data Analytics	
BMIS 471	Fundamentals of Network & Security Management	
BMIS 472	Advanced Network & Security Management	
BMIS 478	E Commerce: a Managerial Perspective	
BMIS 479	Introduction to Consulting	
BMIS 491	Special Topics	
BMIS 492	Independent Study	
BMKT 460	Marketing Hi-Tech Production and Innovation	
CSCI 151	Interdisciplinary Computer Science I	
CSCI 152	Interdisciplinary Computer Science II	
CSCI 448	Pattern Recognition	
CSCI 464	Applications of Mining Big Data	
M 461	Data Science Analytics	
STAT 451	Statistical Methods I	
Total Hours		**6**

Minimum Required Grade: C-