

INFORMATION SYSTEMS & BUSINESS ANALYTICS MAJOR



College of Management

OVERVIEW AND CAREER PATHWAYS

Information and data analytics technologies are transforming all aspects of business. Students who major in Information Systems and Business Analytics (ISBA) can acquire the knowledge and skills needed to take a leading role in these innovative fields. The curriculum of the ISBA concentration covers the topics in business analytics and its information systems foundation.

Courses in the ISBA program are designed to offer students options for a career path in Business Analytics or Information Systems. The Business Analytics path prepares students for careers that address the best use of data in contemporary business environments while the Information Systems path prepares students for highly demanding careers in today's digitalized business environment that are typically positioned as bridges among business managers, end-users/customers, and IT departments/vendors.

INFORMATION SYSTEMS AND BUSINESS ANALYTICS MAJOR REQUIREMENTS

All Bachelor of Science degrees from the College of Management require at least 120 credits, which is typically completed by taking five 3-credit courses each semester. The requirements outside of this major are:

General Education and Non-Major requirements: some may overlap with each other or major requirements

- Verbal Reasoning & Expression: ENGL 101 & ENGL 102
- First Year Seminar (if entering with less than 30 cr)
- Intermediate Seminar¹: MGT 330
- Non-Business Foundation¹: ECON 101 & ECON 102
- Quantitative Reasoning course¹: MSIS 111L
- Writing Proficiency Requirement¹: BC 290
- Areas of Knowledge Distribution courses
- Diversity course
- International Management course
- 200-Level Non-Business course¹

¹These courses can overlap with other degree requirements

General Electives: 9 courses [27 credits]; may be used toward pre-requisite courses or fulfilled with transfer credit.

The requirements for this major, including the Business Core Requirements, are:

Business Core: 13 courses [39 credits]

- AF 210: Financial Accounting
- AF 211: Managerial Accounting
- AF 301: Introduction to Financial Management
- BC 290: Professional Written Communication & Critical Analysis
- MGT 303: Managing Organizations
- MGT 330: Business Environments & Public Policy
- MGT 331: Managerial Ethics and Social Issues
- MKT 301: Principles of Marketing
- MSIS 110: Introduction to Computers & Information Systems
- MSIS 111L: Managerial Statistics
- MSIS 212: Managerial Decision Making
- MSIS 301: Operations Management
- CAPSTONE: MGT 490: Strategic Management

Information Systems and Business Analytics Required Courses: 4 courses [12 credits]

- IT 370: Business Intelligence Applications
- IT 471: Data Warehousing for Business Intelligence
- MSIS 230L: Relational Databases
- MSIS 310: Introduction to Coding for Business

Information Systems and Business Analytics Electives: 2 courses [6 credits]

Business Analytics Career Path

- IT 456: Information Storage and Management
- IT 472: Data Mining for Management Applications
- MSIS 411: Advanced Database Systems
- MSIS 415: Advanced Coding for Analytics
- MSIS 454L: Supply Chain Management
- SCSM 450: Service Operations Management

Information Systems Career Path

- IT 360: Enterprise Software
- MSIS 425L: Project Management
- MSIS 428L: Information System Security
- MSIS 461L: System Analysis and Design

As a declared Information Systems and Business Analytics Major you will have an assigned College of Management Academic Advisor from Orientation to Graduation. They will help you stay on track as you navigate these requirements and identify areas where they may overlap, while also meeting your personal and academic goals.

ADVISOR PRO TIP You may be able to use your General Electives to possibly pursue a 2nd major or minor within the College of Management. If this is of interest to you – bring it up at your next advising meeting!

DECLARE NOW

