

## Management Information Systems Major Courses

Students who major in MIS are required to take Advanced Systems Analysis and Design (ISM 4133) and five other MIS electives (18 total credits) beyond Management Information Systems (ISM 3011). A grade of "C" or better is required in all major courses. Students may choose to follow one of the two paths below or may choose courses from both paths in consultation with their advisor. The Information Technology path is the classical MIS path that provides core technical skills needed to manage and design information technology in organizations. Students acquire the basic four technical skills of application development and programming languages, databases, data communications and system analysis. The Information and Knowledge Management path provides students with general, broad knowledge in information and knowledge management in organizations, digital products and service development, social media analysis, as well as project management. Graduates will have the skills to analyze and lead technology-enabled products and services and consult organizations on digital products and services.

Additionally, students may choose to concentrate in Business Analytics or [Cybersecurity Information Security](#), but are not required to. If a student pursues the Business Analytics or [Cybersecurity Information Security](#) concentration, the student must take the four courses that constitute the chosen concentration. Concentration courses are noted below.

Information Technology Path		
Introduction to Computer Systems and Software Development	ISM 3230	3
Database Management Systems*	ISM 4212	3
Business Data Communications**	ISM 4220	3
Advanced Systems Analysis and Design	ISM 4133	3
Choose two of the following courses		
Special Topics	ISM 4930	3
Social Media and Web Technologies	ISM 4054	3
Project Management	MAN 4583	3
Information Technology and Operations Management Internship	ISM 4940	3
Introduction to Business Intelligence*	ISM 3116	3
Data Mining and Data Warehousing*	ISM 4117	3
Advanced Business Intelligence*	ISM 4403	3
<a href="#">Information System Introduction to Cybersecurity-Security</a> **	ISM 4320	3
Management of Information Assurance and Security**	ISM 4323	3
Computer Forensics**	ISM 4324	3
Mobile Apps for Business	ISM 4053	3
Social Media and Web Analytics	ISM 4420	3

\* These courses constitute the Business Analytics concentration.

\*\* These courses constitute the [Cybersecurity- Information Security](#) concentration.

Information and Knowledge Management Path		
Advanced Systems Analysis and Design	ISM 4133	3
Choose five of the following courses		
Special Topics	ISM 4930	3
Social Media and Web Technologies	ISM 4054	3
Project Management	MAN 4583	3
Information Technology and Operations Management Internship	ISM 4940	3
Introduction to Computer Systems and Software Development	ISM 3230	3
Database Management Systems*	ISM 4212	3
Introduction to Business Intelligence*	ISM 3116	3
Data Mining and Data Warehousing*	ISM 4117	3
Advanced Business Intelligence*	ISM 4403	3
Business Data Communications**	ISM 4220	3
<a href="#">Introduction to Cybersecurity**</a> <a href="#">Information System Security**</a>	ISM 4320	3
Management of Information Assurance and Security**	ISM 4323	3
Computer Forensics**	ISM 4324	3
Global Supply Chain Management	MAN 4597	3
Contemporary Issues of Digital Data Management	ISM 4041	3
Mobile Apps for Business	ISM 4053	3
Social Media Innovation	ISM 3007	3
Healthcare Information Systems	ISM 4381	3
Social Media and Web Analytics	ISM 4420	3

\* These courses constitute the Business Analytics concentration.

\*\* These courses constitute the [Cybersecurity Information Security](#) concentration.