

# INFORMATION SYSTEMS, MS INFORMATION SYSTEMS MANAGEMENT SPECIALIZATION

Information Technology is a fast-growing field with new subspecialties emerging on a regular basis. Every business is or will be leveraging technology to deliver or enhance their products and services. Leaders are needed who know how to manage and lead IT organizations in delivering these capabilities. The specialization in Information Systems Management introduces students to key information system management best practices, IT strategy development, project management methods, information security and technology management techniques that apply to the entire system life cycle. The specialization emphasizes management techniques and methods used to ensure the successful implementation and ongoing operations of information technology capabilities that produce value for the business. Students will learn various approaches to develop IT strategies, evaluate emerging technologies, keep information secure, manage technology project implementations, and develop frameworks to apply to the ongoing management and operation of application and information technology portfolios.

## Curriculum

### Core Courses (4 units)

Course	Title
CIS 413-DL/413-0	Telecommunications and Computer Networks
CIS 414-DL or MSDS 430-DL	Object Oriented Programming Python for Data Analysis
CIS 417-DL/417-0	Database Systems Design & Implementation
CIS 498-DL/498-0 or CIS 590-DL	Computer Information Systems Capstone Project Capstone Research

### Specialization Courses (7 units)

Course	Title
CIS 457-DL/457-0	Management of Information Security
CIS 460-DL/460-0	Information Technology Management
CIS 465-DL/465-0	Information Technology Strategy
MSDS 475-DL or CIS 494-DL	Project Management Project Management Concepts

#### Any three electives

CIS 419-DL	Web Application Development
CIS 431-DL	Database Administration
CIS 435-DL	Practical Data Science Using Machine Learning
CIS 436-DL	Data and Digital Platforms
CIS 452-DL/452-0	Cybersecurity Attacks and Counter Measures
CIS 453-DL	Enterprise Security Strategy
CIS 455-DL/455-0	Disaster Recovery and Continuity
CIS 471-DL	Digital Transformation: Strategy and Planning
CIS 473-DL	Digital Technologies
CIS 475-DL	Leading Digital Transformation Execution
CIS 477-DL	Enterprise Architecture
CIS 495-DL	Enterprise Agility Frameworks

CIS 496-DL	Business Writing and Communication
CIS 497-DL	Information Technology Finance

## About the Final Project

Students may pursue their capstone experience independently or as part of a team. As their final course, students take either the individual research project in an independent study format or the classroom final project class in which students integrate the knowledge they have gained in the core curriculum in a project presented by the instructor. In both cases, students are guided by faculty in exploring the body of knowledge on information systems while contributing research of practical value to the field. The capstone independent project and capstone class project count as one unit of credit.

Course	Title
<b>Choose one</b>	
CIS 498-DL/498-0	Computer Information Systems Capstone Project
CIS 590-DL	Capstone Research