

# MANAGEMENT INFORMATION SYSTEMS (MIS)

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## **MIS 204 (s) Special Topics (1-16 credits)**

Credit arranged

## **MIS 250 Introductory Systems Development (3 credits)**

Introduction to event-driven and object-oriented systems development in a graphical user interface environment; significant hands-on demonstrations and uses of a variety of integrated application development tools.

**Prereqs:** Must have taken at least 30 credits

## **MIS 298 (s) Internship (1-3 credits, max 6)**

## **MIS 299 (s) Directed Study (1-16 credits)**

Credit arranged

## **MIS 350 Managing Information (3 credits)**

Introduction to use and management of data to support decision making. Includes discussion of relevant international and ethical issues.

**Prereqs:** STAT 251 or STAT 301

## **MIS 353 Application Development (3 credits)**

Intro to the design and implementation of IS applications. Topics may include programming for mobile and distributed systems, usability, and security.

**Prereqs:** Junior standing

## **MIS 355 Systems Analysis & Administration (3 credits)**

Introduction to analysis, development, and management of modern information systems. May involve evening exams.

**Prereqs:** Junior standing

## **MIS 398 (s) Internship (1-3 credits, max 6)**

## **MIS 404 (s) Special Topics (1-16 credits)**

Credit arranged

## **MIS 440 Data Visualization for Managerial Decision Making (3 credits)**

Use of data analytics to improve decision making and provide visual insights for businesses to improve long term predictions and prescribe future actions.

**Prereqs:** MIS 350 or BUS 354 or Instructor Permission

## **MIS 452 Data Communications & Network Management (3 credits)**

Survey of data communication management issues in a business environment; topics include local and wide area networks, public networks, and application of data communications technology in strategic business management. Typically Offered: Fall.

**Prereqs:** MIS 350 or MIS 353, or MIS 355

## **MIS 453 Database Design (3 credits)**

Introduction to modern database management systems and their use in solving business problems. May involve evening exams.

**Prereqs:** MIS 350, MIS 353, MIS 355, or CS 120

## **MIS 454 Issues in Information Systems (3 credits)**

Discussion of major topics of current importance in information systems.

**Prereqs:** MIS 350, MIS 353 or MIS 355

## **MIS 455 Data Management for Big Data (3 credits)**

Joint-listed with MIS 555

Introduction to big data and the various data models related to managing "Big Data" and very large datasets. Emphasis will be on developing NOSQL data management systems. Additional topics may include data access, data analytics, and data visualization. Additional projects/ assignments required for graduate credit.

## **MIS 456 Cybersecurity Competition (1 credit, max 6)**

Students will develop, practice, and validate cybersecurity skills. The skills developed from participating in the virtual labs will be used to participate in the competitions. Graded P/F.

## **MIS 499 (s) Directed Study (1-16 credits)**

Credit arranged

## **MIS 555 Data Management for Big Data (3 credits)**

Joint-listed with MIS 455

Introduction to big data and the various data models related to managing "Big Data" and very large datasets. Emphasis will be on developing NOSQL data management systems. Additional topics may include data access, data analytics, and data visualization. Additional projects/ assignments required for graduate credit.