

# MANAGEMENT INFORMATION SYSTEMS (MGIS)

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## **MGIS 1301. Intro To Information Systems. 3 Hours.**

### **MGIS 2320. Business System Implementation. 3 Hours.**

An introduction to the implementation of common business applications using current visual application development platforms. Basic structured and object-oriented computer programming techniques are covered in the context of the creation of business-oriented systems.

**Prerequisite:** CSTE 1330 or BUAD 1305 and MATH 1324 or 1314 or MATH 1420.

### **MGIS 3310. Principles of MIS. 3 Hours.**

An introduction to the management and use of information systems in organizations. Material presented is selected to increase the student's literacy in this rapidly changing field, including commonly used acronyms and emerging technologies. Organizational applications of information systems will be discussed for the functional areas of the firm.

**Prerequisite:** BUAD 1305 or MGIS 1301 or CSTE 1330 and 50 hours.

### **MGIS 3330. Business Database Management. 3 Hours.**

Introduction to databases. Design and implementation principles, including entity-relationship modeling and normalization are studied and applied in order to create an organizational database. Students will become better computer users, who are more knowledgeable about the uses of databases in solving business problems, and learning a new way to think about business and its information needs.

**Prerequisite:** MGIS 3310.

### **MGIS 4080. Independent Study. 1-3 Hours.**

The student may pursue studies for which a special course is not organized. The credit in this course varies according to the work performed. Variable Credit (1-3).

### **MGIS 4085. Special Topic. 1-3 Hours.**

A study of emerging information technologies. Class participants will learn about the technical fundamentals and business applications associated with information technologies. Variable credit (1-3).

**Prerequisite:** MGIS 3310.

### **MGIS 4320. E-Commerce Implementation. 3 Hours.**

An introduction to the implementation of common business applications for e-commerce using Internet related technologies. Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), scripting language(s), and other current technologies will be covered in the context of e-commerce.

**Prerequisite:** MGIS 2320.

### **MGIS 4330. Business Database Mgt II. 3 Hours.**

This course provides knowledge and skills for database design, development, and implementation in a multi-user business environment using a database management system (DBMS). Structured Query Language (SQL), a database procedural language, and other current technologies will be covered in the context of DBMS.

**Prerequisite:** MGIS 3330.

### **MGIS 4340. Systems Analysis & Design. 3 Hours.**

A first course describing the methods for analyzing information needs and designing, evaluating, and implementing computer-based information systems. Special attention is given to both structured and adaptive techniques for analysis and design. Basic structured and object-oriented analysis and construction techniques are taught in the context of the creation of business-oriented systems.

**Prerequisite:** MGIS 3310 and MGIS 3330 (can be taken concurrently).

### **MGIS 4350. Business Network Management. 3 Hours.**

Presentation of current and emerging telecommunications services and networking technologies with emphasis on their strengths, limitations, and business applications. Practical aspects of installing and managing networks within business organizations. Commonly used network media, operating systems, LAN and WAN technologies, inter-networking approaches and media will be presented.

**Prerequisite:** MGIS 3310.

### **MGIS 4360. Design & Implementation Of Erp. 3 Hours.**

This course builds on knowledge acquired in the Systems Analysis and Design class (MGIS 2320). This class studies the types of issues that managers will need to consider in implementing cross-functional integrated systems. We will examine the general nature of enterprise computing, re-engineering principles and the technical foundations of client/server systems and enterprise information architectures. We will also look at the different types of enterprise information systems, primarily SAP R/3. Topics include the tools and methodology, modules, processes, and industry initiatives.

**Prerequisite:** MGIS 3310.

### **MGIS 4389. Internship. 3 Hours.**

This course is course designed to provide the student with an opportunity to apply academic skills in a practical work environment. (See Internship Coordinator prior to enrolling.) All internships must be approved in advance in order to receive credit.

**Prerequisite:** Department approval and minimum overall and COBA GPA of 2.5.