

MANAGEMENT INFORMATION SYSTEMS (MISC)

MISC 295. INTERNSHIP. 1-6 Credits.

MISC 298. SEMINAR. 1-5 Credits.

MISC 299. DIRECTED STUDY. 1-15 Credits.

MISC 311. INFORMATION TECHNOLOGY IN BUSINESS. 4 Credits.

Pre-requisites: sophomore standing.

This course provides concepts of the alignment between rapidly changing Information Systems/Technology and business performance. Course content covers strategic, tactical, and operations level issues of Information Systems in organizations. Topics include business-driven information systems, decision-making support, e-business, ethics, security, infrastructure, and applications of commonly implemented spreadsheet modeling and database management systems to solve business problems.

MISC 370. MULTIMEDIA PRODUCTION OF BUSINESS DOCUMENTS. 4 Credits.

Pre-requisites: MISC 311, BUED major, or permission of the instructor.

Learning advanced applications of word processing, presentation, and multimedia software to design formal and technical reports and presentations, correspondence, newsletters, brochures, forms, charts, and graphics. Emphasis is on problem-solving ability to convert raw data into acceptable form using the computer, the Internet, and additional multimedia.

MISC 371. BUSINESS APPLICATIONS PROGRAM DESIGN. 4 Credits.

Pre-requisites: MISC 311.

This course provides a thorough coverage of the program design and development process. The student will develop algorithmic solutions to a variety of business computer applications using a number of logic tools for programming and documentation. A high level programming language is used to illustrate the logic and structure of common business applications.

MISC 372. DATA COMMUNICATION AND NETWORK FUNDAMENTALS. 4 Credits.

Pre-requisites: MISC 311.

This course is a general introduction to current technology for local area networks (LAN), wide area networks (WAN) and the Internet.

MISC 373. BUSINESS DATABASE APPLICATIONS. 4 Credits.

Pre-requisites: MISC 311.

This course provides an in-depth study of theory and applications of databases. Emphasis is on the design of flexible databases to meet business information requirements. Topics include database concepts, data modeling, data dictionary, database models, database design, data integrity and managerial considerations.

MISC 374. SPREADSHEET MODELING FOR BUSINESS APPLICATIONS. 4 Credits.

Pre-requisites: MISC 311 or CSCD 211 or permission of the instructor.

This course will explore advanced tools in Spreadsheet Modeling, including Pivot Tables, Advanced Functions, What-Ifs, Scenarios, Databases, and Data Analysis. Students will develop Excel skills to solve business problems.

MISC 375. EXPERT SYSTEMS APPLICATIONS IN BUSINESS. 4 Credits.

Pre-requisites: CSCD 211, MISC 311 or permission of the instructor.

Introduction to expert systems design and implementation. Topics covered include the study of existing successful applications, the techniques of knowledge representation, and a review of knowledge engineering methodologies and languages. Students build a model expert system using an expert system software package.

MISC 395. COOP FIELDWORK. 1-15 Credits.

MISC 398. SEMINAR. 1-5 Credits.

MISC 399. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

MISC 481. SYSTEMS ANALYSIS AND DESIGN. 4 Credits.

Pre-requisites: MISC 373 or CSCD 327.

This course involves the analysis and design of business systems. It includes the structure and life cycle of systems. The methodology of systems studies and the use of computer aided software engineering (CASE) tools are emphasized. Systems studies are undertaken utilizing cases and actual business systems projects.

MISC 482. SYSTEMS PROJECT AND PROJECT MANAGEMENT. 4 Credits.

Pre-requisites: MISC 371 and MISC 481.

This course emphasizes solving an information systems problem using project management and information systems methodologies. Students will develop a computer information system through the use of CASE tools. Interactive and prototyping approaches to system development are investigated and employed. In addition, students will acquire additional knowledge in planning, managing and presenting a systems project

MISC 485. ADVANCED DATABASE APPLICATIONS DEVELOPMENT. 4 Credits.

Pre-requisites: MISC 373 or permission of the instructor.

This course is a continuation of business applications of databases. The course stresses application development through fourth generation programming techniques. The course is designed to take advantage of advanced capabilities in current database management systems. Emphasis is on the design and implementation of business database applications. Topics include data modeling, database design, database implementation, report design, form design, application design, security, backup and recovery and multi-user databases

MISC 486. INFORMATION SECURITY MANAGEMENT. 4 Credits.

Pre-requisites: MISC 311.

Provides an understanding of the information security vision and strategy set forth by executive management. Concepts and techniques from the management and organizational behavior disciplines are integrated in order to identify and propose solutions to the problems of information security administration. Domain specific issues such as HIPAA and SOX are addressed as appropriate.

MISC 487. DIGITAL ENTREPRENEURSHIP. 4 Credits.

Cross-listed: ENTP 487.

Pre-requisites: MISC 311.

This course explores how e-commerce is emerging and evolving. Students learn those from aspects of entrepreneurship with cutting edge information technologies in the experiential learning setting.

MISC 488. HEALTH INFORMATION TECHNOLOGY. 4 Credits.

Pre-requisites: MISC 311.

This course acquaints students with current and emergent issues in the area of health and medical information technology from a regional, national and international perspective. The classroom format combines lecture and case-based work with hands-on work using a variety of current electronic medical record (EMR) and ancillary systems.

MISC 495. INTERNSHIP. 1-15 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

MISC 496. EXPERIMENTAL COURSE. 1-15 Credits.

MISC 497. WORKSHOP, SHORT COURSE, CONFERENCE, SEMINAR. 1-5 Credits.

MISC 498. SEMINAR. 1-5 Credits.

MISC 499. DIRECTED STUDY. 1-5 Credits.

Pre-requisites: permission of the instructor, department chair and college dean.

MISC 595. INTERNSHIP. 1-15 Credits.