

Start/End Dates

Meeting Days

Meeting Times

Location

Instructor

Course Topic (if applicable)

MANAGEMENT COMPUTER SYSTEMS**Management Computer Systems**

MCS 214 INFORMATION TECHNOLOGY CONCEPTS AND PRACTICE ... A survey course that covers the use of information technology in organizations, the processes used to create and manage information technologies, and the impact of information technology on individuals, organizations, the economy and society. Students learn how to do systems analysis, data modeling, system and database design, database queries, and construction and testing of a database application as part of a systems development life cycle.

PREREQ: COMPSCI 181 AND COMBINED CUMULATIVE GPA OF 2.50

#4425 Section 01 [units: 3]

09/02-12/22 MWF 09:55 AM - 10:45 AM HH2306 Robert P Siemann

MCS 220 CONCEPTS OF PROGRAMMING ... This course teaches students professional software development using object-oriented program design and the Java programming language. Coverage includes correct business programming style and documentation, program debugging and testing, database and file processing, event-handling, and graphical user interfaces.

PREREQ: COMPSCI 172 AND A COMBINED CUMULATIVE GPA OF 2.50

#4409 Section 01 [units: 3]

09/02-12/22 TR 12:30 PM - 01:45 PM HH2306 Jonathan M Kane

MCS 231 CONCEPTS OF DATA STRUCTURES ... This course is an introduction to data structures, using the Java programming language. It covers static and dynamic implementations of data structures including lists, stacks, queues and trees. It emphasizes object-oriented design and programming methodology, including inheritance and polymorphism, and applies these in the development of large programming projects.

PREREQ: MCS 220 AND A COMBINED CUMULATIVE GPA OF 2.50

#4411 Section 01 [units: 3]

09/02-12/22 MW 02:15 PM - 03:30 PM HY0210 Hien M Nguyen

MCS 314 ADVANCED DATABASE DESIGN AND ADMINISTRATION ... This course covers advanced topics in database analysis, design, access, integrity control, and implementation as well as a variety of emerging topics. The course is intended for students who already have a good understanding of database systems and relational database concepts.

PREREQ: MCS 214 AND A COMBINED CUMULATIVE GPA OF 2.50

#4429 Section 01 [units: 3]

09/02-12/22 TR 09:30 AM - 10:45 AM HH2306 David L Munro

MCS 325 WEB DEVELOPMENT I ... This course will give students familiarity with client/server computing in two/three-tiered Internet environment. This includes the development of dynamic web pages to exchange data with relational database management systems using scripting technologies. Students will use an event-driven, object-oriented programming language to construct ActiveX components that connect with database servers. The course will also explore basic networking concepts.

PREREQ: MCS 214, MCS 231 AND A COMBINED CUMULATIVE GPA OF 2.50

#4415 Section 01 [units: 3]

09/02-12/22 TR 11:00 AM - 12:15 PM HH2306 George Sargent

MCS 331 SYSTEMS ANALYSIS AND DESIGN 1 ... In this course, the student learns to analyze the business organization as a system, to structure both the information and processes of a business or organization, and to complete the systems development process through the logical design phase. The course utilizes an object-oriented methodology for the systems development process. The student begins a team project that is completed in MCS 431.

PREREQ: MCS 214, MCS 231 AND A COMBINED CUMULATIVE GPA OF 2.50; COREQ: MCS 325 AND (ECON 245 OR MATH 231 OR MATH 342)

#4417 Section 01 [units: 3]

09/02-12/22 TR 03:45 PM - 05:00 PM HH2306 Robert L Leitheiser

MCS 391 MCS COOPERATIVE PROGRAM ... The student is to work as an information systems professional in a business or government organization and report on the experience to the MCS faculty and fellow students.

PREREQ: COMBINED CUMULATIVE GPA 2.50

#4419 Section 01 [units: 3]

09/02-12/22 Arranged Arranged Robert L Leitheiser

Dept. Consent

MCS 425 WEB DEVELOPMENT 2 ... This course teaches students how to develop Web applications using Java technologies. The course focuses on design and implementation of distributed applications for the Internet and/or intranets. Topics include object-oriented distributed systems and technologies, database access, security, advanced Java programming, and technical design issues for e-Commerce systems.

PREREQ: MCS 325 AND A COMBINED CUMULATIVE GPA OF 2.50

#4421 Section 01 [units: 3]

09/02-12/22 TR 12:30 PM - 01:45 PM HH2311 David L Munro

MCS 431 SYSTEMS ANALYSIS AND DESIGN 2 ... This course is a study of the principles and activities associated with the physical design and implementation of computer based information systems using object oriented methodologies. It includes object-oriented decomposition, system testing, documentation, system security, conversion and implementation. The student completes the team project started in MCS 331.

PREREQ: MCS 314, MCS 331 AND A COMBINED CUMULATIVE GPA OF 2.50

#4423 Section 01 [units: 3]

09/02-12/22 TR 02:15 PM - 03:30 PM HH2306 Paul Ambrose

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MCS 475 NETWORK ENGINEERING ... This class will explore the OSI (Open Systems Interconnection) networking model, standard networking protocols, and network architecture including implementation, administration and maintenance. Students will also gain "hands-on" networking experience by installing and setting up a network operating system, building a small LAN, and managing network servers.

PREREQ: MCS 325 AND A COMBINED CUMULATIVE GPA OF 2.50

#4433 Section 01 [units: 3]

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| 09/02-12/22 | W | 05:45 PM - 08:15 PM | HY0210 | Athula D. A. Gunawardena | |
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***** GRADUATE LEVEL COURSES *****

MCS 725 E-BUSINESS: TECHNOLOGY, APPLICATIONS, AND ISSUES ... This course is designed to provide graduate students with an overview of internet technologies and electronic business phenomenon currently sweeping the global economy. The course provides an opportunity for students to identify, analyze, and discuss issues and challenges from a strategic, organizational and technology perspective. These issues and challenges need to be addressed by nations, industries, and corporations in their attempt to be part of the e-business marketplace. The goal of the course is to cover the major topics rather than be encyclopedic. The course makes use of lecture, discussions, readings, cases, and student research projects.

The course also has a technical component that teaches internet technologies such as HTML, JavaScript and the Document Object Model that help form the foundation of all Web development.

What this course is NOT: Because this course is an IS course, we will not discuss e-business from a marketing perspective. The student is expected to be familiar with information technologies associated with the delivery of Internet sites. These topics will be discussed only briefly.

#5317 Section 22 [units: 3] NOTE: Online classes will bill at \$550 per credit for all students., Students must have access to the Internet and an internet browser

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| 10/26-12/22 | Arranged | Arranged | WEB BASED | Paul Ambrose | |
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