

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

#3674 Section 01 [units: 3]

01/20-05/20 MWF 09:55 AM - 10:45 AM MG0117 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

#3662 Section 01 [units: 3]

01/20-05/20 TR 12:30 PM - 01:45 PM MG0117 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

#3664 Section 01 [units: 3]

01/20-05/20 MW 02:15 PM - 03:30 PM HY0210 Hien M Nguyen

MCS 232 COBOL AND COMPLEX SYSTEMS ... The course emphasizes how a complex system can be designed and implemented in terms of multiple independent layers. Topics include the fundamentals of COBOL and its integration with client/server and Web systems.

PREREQ: MCS 231 AND A COMBINED CUMULATIVE GPA OF 2.50

#3684 Section 01 [units: 3]

01/20-05/20 MW 03:20 PM - 04:35 PM MG0121 Robert P Siemann

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

#3676 Section 01 [units: 3]

01/20-05/20 TR 02:15 PM - 03:30 PM MG0121 Robert L Leitheiser

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

#3672 Section 01 [units: 3]

01/20-05/20 TR 11:00 AM - 12:15 PM MG0121 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)

#3670 Section 01 [units: 3]

01/20-05/20 TR 12:30 PM - 01:45 PM MG0121 Paul Ambrose

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

#3666 Section 01 [units: 3]

01/20-05/20 Arranged Arranged Robert L Horton

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

#3660 Section 01 [units: 3]

01/20-05/20 TR 03:45 PM - 05:00 PM MG0120 Robert L Leitheiser

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

#3668 Section 01 [units: 3]

01/20-05/20 TR 12:30 PM - 01:45 PM MG0120 Robert L Leitheiser

Start/End Dates Meeting Days Meeting Times Location Instructor Course Topic (if applicable)

MCS 485 PROJECT ... This course provides students with the opportunity to participate on a student project team under the management of a faculty member and industry practitioners. The project will be sponsored by a partnering business firm and may involve a wide array of technologies, functional areas and geographically dispersed teammates. This course will only be offered when projects are available. Students will be carefully chosen through an interview process. The number of credits will be determined by the complexity of the project and the level of student involvement.

PREREQ: COMBINED CUMULATIVE GPA 2.50

#3680 Section 01 [units: 1-3]

Dept. Consent

01/20-05/20 Arranged Arranged Robert L Horton

***** GRADUATE LEVEL COURSES *****

MCS 740 INFORMATION SYSTEMS STRATEGY & POLICY ... Acquaints students with the issues, procedures, and opportunities associated with the organizational use of information technology and with the management of the IS function. Topics include the role of IS technology in organizations, planning, organization and control of the IS function, IS support for corporate reengineering and strategic initiatives, IS operations management, and the maturity of the IS function.

#3740 Section 01 [units: 3]

01/20-05/20 T 06:30 PM - 09:00 PM MG0125 David L Munro

#3739 Section 22 [units: 3] NOTE: Online classes will be billed at \$550 per credit for all students. Students must have access to the Internet and an Internet browser.

01/20-05/20 Arranged Arranged WEB BASED David L Munro

MCS 785 PROJECT MANAGEMENT: METHODOLOGIES, TECHNIQUES AND TOOLS ... This course will provide students with pragmatic guidance in the management of IS projects by analyzing critical success factors, skills and techniques required to successfully organize, plan, schedule, monitor, and control projects. Cost and schedule estimation techniques are presented together with proposal writing, project planning, team building, negotiation/communication, risk management, alternative technology assessment, and quality measurement techniques.

#3741 Section 01 [units: 3]

01/20-05/20 W 06:30 PM - 09:00 PM MG0125 David L Munro

#3742 Section 22 [units: 3] NOTE: Online classes will be billed at \$550 per credit for all students. Students must have access to the Internet and an Internet browser.

03/16-05/20 Arranged Arranged WEB BASED Choton Basu