

# Master of Science in Management Information Systems

Effective Spring 2007

This program is designed to prepare individuals for careers in a wide range of business fields. It will provide the technical and managerial knowledge and skills required by professionals in the field of information systems. Graduates will be prepared to operate successfully in careers associated with planning, design, development and management of complex information systems.

## **Admission Requirements**

Admission to the Master of Science in Management Information Systems is based upon a variety of factors: academic achievements, professional work experience, professional goals, and professional recommendations. The following are admission requirements for the MSMIS program:

- A completed application
- An earned baccalaureate degree from a regionally accredited college or university
- A GPA of at least 3.0 for the final 60 undergraduate semester credits of course work.
- GRE or GMAT (may be required)
- Current résumé
- A one-page summary of applicant's educational and professional goals
- Official transcripts of all completed undergraduate and graduate course work
- Three letters of recommendation
- One or more years of professional experience preferred
- For those for whom English is not their first language, demonstration of competency on the Test of English as a Foreign Language may be required.

## **MSMIS Degree Requirements**

Successful completion of all required foundation courses or their equivalents, core courses and elective courses with a cumulative grade-point average of 3.0 or higher. All required course work must be completed within six years of admission to the program.

## **Foundation Course Waivers**

Waiver of foundation courses generally requires that courses used as a basis for the waivers are comparable in content to the MSMIS foundation courses, were taken within the last six years from a regionally accredited college or university, and were completed with a grade of B or higher. Waivers are not granted solely on the basis of work experience.

A waived foundation course will not require substitution of another MSMIS course. Credits are not given for waived foundation courses. Depending on the number of foundation courses waived, a student might enter the program required to take only the core and elective courses. Final determination of a waiver is made by the MSMIS program director.

After admission to the MSMIS program, students cannot submit portfolios for waiver or substitution of foundation courses. If portfolio credits were earned prior to

admission to the MSMIS program and are considered equivalent to foundation course work, the portfolio credit may be recognized. The MSMIS program director has final approval of all portfolio credit for applicability to MSMIS foundation course work. Portfolio credit is not an option for graduate-level course work in the MSMIS program.

### **Transfer Courses**

Ordinarily, a maximum of six graduate credits can be transferred into the MSMIS program. To be accepted for transfer credit, courses must have been taken from a regionally accredited institution within the last six years with a minimum grade of B and must directly relate to one of the MSMIS program courses. Transfer credit is not given for internship or practicum experiences.

### **Orientation Session**

Prior to the start of every term, new students are expected to participate in an orientation session at CGPS. The orientation session includes introductions of CGPS staff, relevant University policies and procedures, CGPS computer resources, and CGPS library resources.

### **Requirements for Continuance in the MSMIS Program**

All matriculated MSMIS students are expected to maintain satisfactory academic progress in their graduate courses toward completion of the MSMIS program. A cumulative GPA of 3.0 (B) or higher is required for graduation from the program.

Students must maintain a minimum cumulative GPA of 3.0 (B) each term to remain in good academic standing. Any student whose cumulative GPA is below 3.0 at the end of any term (fall, spring, or summer) will have the following term to correct the deficiency.

A student who earns three Cs (C+ and C- included) or one F in graduate courses in the program will automatically be dismissed from the program.

Students who voluntarily interrupt their enrollment for one to three terms (excluding summer) should refer to the Leave of Absence entry in the Academic Rules and Regulations section.

### **Readmission to the MSMIS Program**

Students who have not attended the University for three consecutive terms (excluding summer) must apply for readmission through the Office of Admissions. Students who are readmitted are subject to the degree requirements in effect at the time of readmission. When a student is readmitted, the six-year limit from time of first admission is still in effect. Academic work that was completed more than six years before the date at which the MSMIS is awarded may not be used to satisfy the degree requirements. If a student needs additional time to complete the degree, he/she must apply in writing to the program director for an extension. Such requests must be received at least one month prior to the end of the student's original six-year time limit.

A student who has been dismissed from the program may apply for readmission after a lapse of three terms. Applicants for readmission must meet current minimum admission requirements. Readmission to the program is not guaranteed.

## **Degree Requirements**

Each student must complete all foundation requirements, core course requirements and 12 credits of MMIS electives. A minimum of 36 graduate credits must be completed to meet MSMIS degree requirements. Total number of credits needed to complete the MSMIS degree requirements ranges from 36 to 51, depending on the number of foundation courses needed.

### **Foundation Courses (0 - 15 credits)**

Any or all of the foundation courses may be waived, depending on professional experience, previous course work and/or certification. Final determination of a waiver is made by the MSMIS Faculty Admissions Committee

- BPST 316 Statistics for Managers or equivalent (3 credits)
- \*CTEC 301A Open Operating Systems Platforms and the Internet or CTEC 302 Visual Programming or CTEC 303A Data Structures and Object Oriented Programming or equivalent. (6 credits)
- \*LRSP 301 Leadership and Organizational Behavior or equivalent (6 credits)

\*NOTE: Must be satisfied before registering for any core or MMIS elective courses.

### **Core Courses (24 credits)**

- MBUS 550 Computer-Based Decision Support Systems (3 credits)
- MBUS 556 Strategic Management of Internet Technologies (3 credits)
- MMIS 500 Management Information Systems (3 credits)
- MMIS 505 Information System Analysis and Design (3 credits)
- MMIS 510 Information Security Management (3 credits)
- MMIS 515 Information Technology Project Management (3 credits)
- MMIS 590 MIS Research Project (3 credits)
- MMIS 591 MIS Externship (3 credits)

### **Elective Courses (choose four)**

- MBUS 509 Information Technology for Managers (3 credits)
- MBUS 523 Marketing Strategy (3 credits)
- MBUS 525 Visionary Leadership (3 credits)
- MBUS 526 Organizational Change and Transformation (3 credits)
- MBUS 537 Contracting for Managers (3 credits)
- MBUS 538 Supply Chain Management (3 credits)
- MBUS 554 Management Risk Analysis with Computer Simulations (3 credits)
- MBUS 555 Knowledge Management Systems (3 credits)
- MBUS 580 Commercial Transactions in a Technological Environment (3 credits)
- MBUS 595 Strategic Management (3 credits)
- MMIS 530 Emerging Information System Technologies (3 credits)
- MMIS 531 Managing and Leading the Information Technology Workforce (3 credits)
- MMIS 532 Enterprise Information Systems (3 credits)
- MMIS 533 Management of Information Technology Outsourcing (3 credits)
- MMIS 534 Business Database Systems (3 credits)

## **Course Descriptions**

### **MMIS 500 Management Information Systems (3 credits)**

This course will explore Management of Information systems and related information technologies (IS/IT) as a part of a broader socio-technical system and their impacts on people and processes extend well beyond organizational boundaries. Also, more subjective and debatable issues associated with IS/IT. Accordingly, critical thinking is an important part of this course and is essential for an analysis and understanding of important issues associated with the management aspects of information systems.

### **MMIS 505 Information System Analysis and Design (3 credits)**

This course will explore the functions and methods of systems analysis and design from a theoretical, practical and managerial perspective. Upon successful completion of the course, students will have used analysis and design techniques in real-world settings, compared methods, tools, and techniques, managed real or simulated IS projects throughout the development life cycle and participated in the prototyping and rapid application development of an information system. This course will culminate with a research project in an area that demands rethinking of traditional practices.

### **MMIS 510 Information Security Management (3 credits)**

This course explores issues of information security in organizations and managerial understanding of information security and practice. Topics include information security architecture, policy development, prevention and detection of attack, business continuity planning, disaster recovery, encryption, firewalls and wireless security. Recent developments in the Internet, and their impact on security, risk assessment and emerging privacy, legal and ethical issues will be covered.

### **MMIS 515 Information Technology Project Management (3 credits)**

Information Technology Project Management will cover the theory of project management including planning, budgeting, scheduling, resource allocation, monitoring techniques, evaluation and quality assurance. Case studies and journal articles will demonstrate current use of these concepts in organizations heavily dependent on information technology. Project management tools will be used in class projects and research to demonstrate the use and applicability of support systems throughout the life of a project.

### **MMIS 530 Emerging Information System Technologies (3 credits)**

Students will be introduced to new information technologies and their application to different organizational settings will be discussed. Case studies will demonstrate the use of these technologies within existing organizations. Students will discover other cutting edge technologies through their own research and try to apply them to different organizational environments.

### **MMIS 531 Managing and Leading the Information Technology Workforce (3 credits)**

The history of management and leadership throughout the evolution of the information worker will give students a basis from which to build their knowledge and perspectives. Leadership and management styles will be discussed in relation to effective management of information technology workers. Emphasis will be placed on the expansion and growth of virtual work environments and how they affect management and leadership. Related topics include the effects of organizational culture and the importance of communication.

### **MMIS 532 Enterprise Information Systems (3 credits)**

This course will introduce students to key strategies and technologies involved in enterprise information systems. Topics include concepts of incremental change, business process redesign, and re-engineering. Top down and bottom up design approaches will be studied with respect to successfully matching systems with organizational structure. Students will analyze the strategic fit between information system design and organization structure, understand the process through which organizational processes are derived and mapped, comprehend the elements, modules, and integration of an ERP package, and use analytical tools and strategies to solve real-world business application cases.

### **MMIS 533 Management of Information Technology Outsourcing (3 credits)**

This course introduces management aspects of information technology outsourcing and discusses trends, models and implications of outsourcing in relation to a variety of business perspectives and concerns including customer satisfaction, ethical issues, benefits, risks analysis, economic advantage, partnerships, competition, strategic management and international challenges. Other topics include adoption, innovation, business process outsourcing, evolving role of IT outsourcing, outsourcing as a catalyst for change, and linkage between IT outsourcing and business strategy.

### **MMIS 534 Business Database Systems (3 credits)**

This course introduces students to database management systems and practical issues to support the design and implementation of databases in business applications. Topics include data modeling, relational model, query languages, web based database, current/emerging technologies, data mining and warehousing. Additionally this course includes data communication and technology with focus on managerial decisions and applications.

### **MMIS 590 MIS Research Project (3 credits)**

#### **Prerequisites: All other core courses excluding MIS Externship**

Students will select, propose and write a research paper on a topic related to managing information systems in today's business environment, public or private. The proposal or project plan must be submitted in writing and presented to the student's appointed faculty course advisor. Research will be conducted using proven academic research methods and will include data collection from actual field observations and substantiated with current literature reviews. The course will culminate with an oral

presentation accompanied by visual displays and research project paper approximately 4000 words in length.

**MMIS 591 MIS Externship (3 credits)**

**Prerequisites: All other core courses excluding MIS Research Project**

Students will be required to locate and study an actual information systems problem within an existing organization. The student will analyze the system and design a solution using current system analysis and design techniques. After obtaining appropriate permission from the organization under review, students will observe and possibly participate in the organization's processes related to the area under study. Students will develop final report approximately 4000 words in length consisting of the requirements, design, development, and implementation for the proposed solution. The course will culminate with an oral presentation accompanied by visual displays on the problem and proposed solution.