Decision Sciences and Information Systems

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Purpose

With the rapid decrease in information technology cost/benefit ratios, the advancement of graphical user interfaces, and the development of the Internet, information systems have become ubiquitous and strategic.

Students in the information systems concentrations use new or existing research methods to help understand the ways in which contemporary organizations design, employ, and manage information systems.

Students in our graduate programs learn the intellectual frameworks and methods used in areas like systems analysis and design (including object-oriented applications), database management, decision support systems (including data warehousing), global electronic commerce, enterprise-wide information systems, and information systems management.

The Department of Decision Sciences and Information Systems offers a Master of Science in Health Informatics and Management Systems (MSHIMS), Master of Science in Management Information Systems (MSMIS), and a concentration in the Ph.D. program.

Master of Science in Health Informatics and Management Systems (MSHIMS)

The M.S. in Health Informatics and Management Systems is a one-year graduate degree program designed for information systems professionals, physicians, nurses, other clinical personnel and healthcare managers who want to increase their knowledge of health information technology and management of the complex social and organizational issues surrounding the increased emphasis on managing healthcare quality, efficiency and outcomes through information systems.

Health Informatics integrates the domains of information and telecommunication systems with the organizational domains of healthcare delivery processes and leadership and management principles. The goal of this program is to educate effective developers, users, and managers of health information systems. Students will learn how to implement and use the health information systems needed by hospital and system executives, government planners, public health officials, and other healthcare professionals. Courses will have both an academic and practical perspective, exposing students to both theoretical approaches and real world application.

Admission Requirements

To be eligible for admission to the MS HI&MS degree program in the Chapman School, prospective students must:

1. Hold a Bachelor's degree or equivalent from an accredited college or university.
2. Achieve a minimum score of 500 on the Graduate Management Admission Test (GMAT) or Graduate Record Exam (GRE) or have a minimum of four years of professional experience. If the applicant already completed a graduate degree from an accredited university with a minimum of a 3.0 grade point average (GPA), he or she may be eligible for a GMAT or GRE waiver.
3. Have a minimum upper division grade point average (GPA) of 3.0.
4. Provide a personal statement on the motivation to attend the program, including personal and career goals.
5. Graduate student applicants whose studies were completed outside of the US must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on paper-based version) or 6.5 overall of the International English Language Testing System (IELTS).

6. If applicant is a student in the Graduate Certificate in Health Informatics & Management Systems or the Graduate Certificate in Healthcare Management, and have completed the first 12 credits with a GPA of 3.25 or higher, he or she may be eligible for admission to the program. Appropriate courses from the Certificate program may be transferred into the degree program.
7. Be in good standing with all previously-attended colleges and universities.

Admissions at the graduate level are competitive and meeting minimum program requirements does not guarantee admission.

Graduation Requirements

To graduate with the Master's degree, a student must:
1. Satisfy all University requirements for a Master's degree.
2. Meet the 36 hours required in the M.S. in Health Informatics and Management Systems "Program of Study."
3. Earn an overall "B" (3.0) cumulative Grade Point Average.
4. No courses in which a graduate student earns a grade below "C" may be counted towards any Master's degree program in the Chapman School.
5. Completion Professional Development Seminars I-III (0 credits) offered through the College of Business Administration.

Program Format

Students will complete the program in 12 months. Students will complete this program as a cohort. The program will be offered on Saturdays in six 8-week terms. Two courses will be taken each term. The students will be considered full time as within a "semester", or two terms in the cohort, they will complete 12 graduate credit hours.

Required Courses

HSA 6149	Strategic Management of Health Care Organizations	3
HSA 6759	Quality Assessment and Outcome in Healthcare	3
HIM 6627	Health Care Information Management	3
ISM 6106	Systems Analysis and Design	3
ISM 6136	Business Intelligence Applications	3
ISM 6205	Database Management	3
ISM 6222	Telecommunications Network	3
ISM 6316	Project Management in Information Systems	3
ISM 6326	Information Security and Compliance	3
MAN 6095	Management of Healthcare Organizations in the 21st Century	3
MAN 6096	Fundamentals of the U.S. Healthcare Delivery System	3
MAN 6245	Organization Behavior	3

Professional Development Seminar I **0**
Team Building – Ropes Course
Career Development
Working in Teams

Professional Development Seminar II **0**
Presentation Skills

Professional Development Seminar III **0**
Writing Skills

For more information, please contact the Program Manager at **mshims@fiu.edu** or (305) 348-6852.

Master of Science in Management Information System (MSMIS)

Our Master of Science in Management Information Systems (MSMIS) is the only program of its kind that was actually designed with strategic direction from the top CIOs in South Florida. In conjunction with our world-renowned faculty, our advisory board of top IT professionals was instrumental in creating a new and unique master's program that delivers knowledge critical to the success of future Chief Information Officers (CIOs).

To better prepare you to become a CIO, we offer you an integrated curriculum that combines technical and IT management skills, including electronic commerce management and strategy, database management, systems analysis and design, project management, knowledge management, and business intelligence. This approach enables you to understand the complexities of today's most critical business systems and to manage IT resources to produce the best results for your organization.

Unique Features

- Complete the program in 12 months.
- Acquire a unique combination of technical and IT management skills.
- Learn high-demand technologies such as Teradata, SAP, Rational Rose, .Net Java, PL/SQL, UML, XML.
- Gain hands-on application experience in state-of-the-art technology labs.
- Build a future network of highly-qualified professionals and peers in the IT field.
- Improve your soft skills by taking mandatory professional development seminars focused on leadership, team-building skills, oral and written presentation skills, and career preparation.

Admission Requirements

To be eligible for admission to the MSMIS degree program in the Chapman School, prospective students must:

1. Hold a Bachelor's degree or equivalent from an accredited college or university.
2. Show high promise of success in graduate work as determined by the faculty based on a minimum score of 500 on the Graduate Management Admission Test (GMAT) or Graduate Record Exam (GRE) or demonstrate at least four years of IT (Information Technology) related work experience. If the applicant already completed a graduate degree from an accredited university with a minimum of a 3.0 grade point average (GPA), he or she may be eligible for a GMAT or GRE waiver.
3. Have a minimum upper division grade point average (GPA) of 3.0.
4. Provide a personal statement on the motivation to attend the program, including personal and career goals
5. Graduate student applicants whose studies were completed outside of the US must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to

550 on paper-based version) or 6.5 overall of the International English Language Testing System (IELTS).
6. If applicant is a student in the Graduate Certificate in Management Information Systems, and have completed the first 12 credits with a GPA of 3.25 or higher, he or she may be eligible for admission to the program.
7. Be in good standing with all previously-attended colleges and universities.

Admissions at the graduate level are competitive and meeting minimum program requirements does not guarantee admission.

The following courses are required for the MSMIS degree:

ISM 6205	Database Management	3
ISM 6316	Project Management of Information Sciences	3
ISM 6106	Systems Analysis	3
ISM 6156	Enterprise Information Systems	3
ISM 6136	Business Intelligence Applications	3
ISM 6128	Business Process Design	3
ISM 6307	Management of the Information Systems Function	3
ISM 6208	Data Warehousing	3
ISM 6489	Electronic Commerce and Internet Business Applications	3
ISM 6024	Managing Distributed Architectures	3
ISM 6338	Information Systems Strategy and Governance	3
ISM 6326	Information Security and Compliance	3

Professional Development Seminars I, II, III

Optional Elective

ISM 6942	MIS Internship	1-3

Professional Development Seminars

Seminars will focus on soft skills such as leadership, team building, oral presentation, writing skills and career exploration. There will be team-building activities which include classroom exercises in group decision-making and problem-solving. Challenging outdoor exercises will be included to help participants build the skills they will need to work together in the program and to succeed in today's team-based organizations. Students will also work with a presentation and writing skills coach to improve the communication and writing skills that are critical to managerial success.

Seminars will be mandatory, non-credit.

Professional Development Seminar I

Team Building – Ropes Course	8hrs
Career Development	6hrs
Working in Teams	4hrs

Professional Development Seminar II

Presentation Skills	8hrs

Professional Development Seminar III

Writing Skills	8hrs

To complete MSMIS degree, students need to successfully complete all 12, three-credit hour courses for a total of 36 credit-hours, and maintain a B average (3.0 GPA).

For additional information, please visit **http://msis.fiu.edu** or contact the Program Manager at (305) 348-6852 or **msis@fiu.edu**.

Master of Science in Management Information System/Master of Business Administration Joint Degree Program

The Department of Decision Sciences and the MBA program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University are offering a joint degree program culminating in both a Master of Business Administration (MBA), and a Master of Science in Management Information Systems degree (MSMIS). Under the joint degree program, a student can obtain both degrees in significantly less time then it would take to obtain both degrees if pursued consecutively. The joint degree program will use existing faculty, courses, and resources. Important criteria relating to the joint degree program are as follows:

1. Candidates to the joint degree program must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree option. Students deciding to pursue the joint degree option after having been admitted to one program will indicate this intention only on their second application.
2. Applications for a joint degree will not be accepted from candidates who have already completed either degree. MBA or MSMIS students must apply and be admitted no later than the second to last semester in which they are expected to complete their original degree requirements.
3. Candidates must satisfy all requirements for each degree. To obtain the MSMIS degree, the student will be required to take twelve (12) MIS courses. This includes the one MIS course in the MBA core program, plus eleven MIS courses from the MSMIS program, for a total of 36 credit hours. Four of these eleven MSMIS courses will be used to satisfy part of the elective requirements of the MBA program. To obtain the MBA degree, the student will have to fulfill all the MBA program requirements. The two degrees will have five common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSMIS courses transferred to meet MBA elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MSMIS degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSMIS curriculums.
4. Joint degree candidates will not receive either degree until all requirements for both programs have been satisfied. Students deciding against completing a second degree must satisfy all first degree program requirements as if the student had never been a joint degree candidate. With the joint degree program students will take a total of 76 credit hours to get both degrees. Without the joint degree program students will need to take 91 credit hours to get both degrees. Thus, MBA students who have taken twelve credits of MSMIS common courses may obtain an MSMIS degree with an additional 21 credits. MSMIS students who have taken three credits of a MBA core MIS

course may obtain an MBA degree with only 40 credits.

For additional information, contact the Evening MBA office at (305) 348-3256 or the MSMIS Office at (305) 348-6852.

MIS Concentration in the PH.D. Program

The Department of Decision Sciences and Information Systems offers a Management Information Systems (MIS) concentration in the doctoral program in Business Administration. The concentration requires completion of the following six courses (18 credit-hours):

ISM 7935	Foundations of IS Research
ISM 7306	Seminar on Strategy and Information Resource
COP 7545	File and Database Systems
ISM 7126	Seminar on Systems Analysis
ISM 7406	Decision Support Systems
ISM 7xxx	Enterprise Information Systems

Please contact the Ph.D. program director, Professor Ronald M. Lee for further requirements and details.

Graduate Certificate in Health Informatics and Management Systems

The Graduate Certificate in Health Informatics and Management Systems (HI&MS) is designed for information systems professionals, physicians, nurses and other clinical personnel and healthcare support personnel who want to increase their knowledge of health information and management of the complex social and organizational issues surrounding the increased emphasis on managing the quality, safety, outcomes and cost effectiveness of healthcare through information systems. The goal of this program is to educate effective developers, users, and managers of health information systems. Students will learn how to implement and use the health information systems needed by hospital and system executives, government planners, public health officials, and other healthcare professionals. Courses will have both an academic and practical perspective, exposing students to both theoretical approaches and real world application.

The certificate provides opportunity for health care professionals to build knowledge and skills in the growing field of health informatics and management systems, and for current graduate students in information systems, healthcare management, and clinical professions to supplement and enhance their degree to include in this focal point of health care delivery.

Admission Requirements

To be eligible for admission to the Graduate Certificate in HI&MS program in the Chapman School, prospective students must:

1. Hold a Bachelor's degree or equivalent from an accredited college of university.
2. Have a minimum upper division grade point average (GPA) of 2.75.
3. Provide a personal statement on the motivation to attend the program, including personal and career goals.
4. Graduate student applicants whose studies were completed outside of the US must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on paper-based version) or 6.5 overall of the International English Language Testing System (IELTS).
5. Be in good standing with all previously-attended colleges and universities.

Program Requirements

Classes are structured into "blocks" or 8 week hybrid format sessions so you may complete the certificate in 3 semesters. Each session consists of only course:

MAN 6095	Management of Healthcare Organizations in the 21st Century	3
HSA 6759	Quality Assessment and Outcome in Healthcare	3
MAN 6096	Fundamentals of the U.S. Healthcare Delivery System	3
ISM 6316	Project Management of Information Sciences	3
ISM 6136	Business Intelligence Applications	3
HIM 6627	Health Care Information Management	3

Students in the MS MIS or Healthcare MBA programs may apply for the Graduate Certificate in HI&MS while completing their degrees. If accepted into the certificate program, the student may apply appropriate course credits from the degree program towards the certificate.

Students in the certificate program may express interest for further graduate studies and may transfer appropriate credits into specific graduate degree programs. After a student has completed 12 hours in the certificate program, the student may transfer credits into the MS MIS or Healthcare MBA. In that case, if the certificate GPA is 3.25 or higher the student may transfer into a degree program provided he/she has completed the relevant graduate application, application fee, and has submitted all required materials. If a student does not meet 3.25 GPA in the first 12 credits, he/she cannot be considered for admission to the MS in HI&MS Program. The student will finish two more courses in the Certificate Program and will be awarded the Graduate Certificate in Health Informatics and Management Systems.

Eligible students would have to apply and be admitted to the degree program before completing more than 12 credits in order to have the additional courses be counted for both the certificate and the graduate degree. The decision on the acceptability of the graduate certificate credits would be made by the graduate program director.

For more information, please contact: Zuzana Hlavacova Gurung, Ph.D., Associate Director, Graduate Management Programs, **Zuzana.hlavacova@fiu.edu** or (305) 348-6891.

Graduate Certificate in Healthcare Management

The objective of this proposed graduate certificate is to provide individuals with a basic understanding of the context, management and reimbursement issues for health services organizations.

Admission Requirements

Students must have an earned baccalaureate degree with a GPA of 2.75 or higher.

Prerequisite:

Computer skills including: Word, Excel and PowerPoint

Program of Study (15):

MAN 6096	Fundamentals of the U.S. Healthcare Delivery System	3
MAN 6095	Management of Healthcare Organizations in the 21st Century	3
HSA 6176	Financing and Reimbursement of Health Systems	3
HSA 6197	Design and Management of Health Information Systems	3
HSA 6759	Quality Assessment and Outcome in Healthcare	3

Graduate Certificate in Management Information Systems

The Graduate Certificate in Management Information Systems is designed to meet the rapidly evolving needs of information systems and business professionals in the field of management information systems. The goal of this certificate program is to provide a solid understanding of the design, development, technology, and management of information systems. The program focuses on areas in high demand – database management, systems analysis and design, and telecommunication networks.

Admission Requirements

To be eligible for admission to the Graduate Certificate in MIS program in the Chapman School, students must:

1. Hold a Bachelor's degree or equivalent from an accredited college or university.
2. Have a minimum upper division grade point average (GPA) of 2.75.
3. Graduate student applicants whose studies were completed outside of the US must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on paper-based version) or 6.5 overall of the International English Language Testing System (IELTS).
4. Be in good standing with all previously-attended colleges and universities.

Admissions at the graduate level are competitive and meeting minimum program requirements does not guarantee admission.

The Certificate Program consists of six courses, (18 credit hours):

ISM 6205	Database Management
ISM 6222	Telecommunications Networks
ISM 6316	Project Management of IS
ISM 6106	Systems Analysis
ISM 6326	Information Security and Compliance
ISM 6423	Knowledge Management