Information Systems and Business Analytics

Karlene Cousins, Associate Professor and Department Chair

David Agogo, Assistant Professor

Miguel Aguirre-Urreta, Associate Professor

Dinesh Batra, Professor

Lina Bouayad, Assistant Professor

Min Chen, Associate Professor

Yan Chen, Associate Professor and Director, MS in Information Systems

Gloria Deckard, Associate Professor

S. Christopher Ellis, Instructor

Pouyan Esmaeil Zadeh, Assistant Professor

Paulo J. Gomes, Assistant Professor

Manjul Gupta, Assistant Professor

Sushil K. Gupta, Professor

Hyeyoung Hah, Assistant Professor

Attila J. Hertelendy. Instructor

Keum S. Kang, Assistant Professor

Richard Klein, Professor and Associate Dean, Landon Undergraduate School of Business

Christos P. Koulamas, Professor and Ryder Eminent Scholar Chair in Management Information System

George J. Kyparisis, Professor

Cynthia LeRouge, Professor, and Knight Ridder Research Fellow, and Director, MS in Health Informatics and Analytics

George Marakas, Professor and Director, Ph.D. Program

Tala Mirzaei, Assistant Professor

Carlos Parra, Clinical Professor

Peter Polak, Instructor

Dasaratha V. Rama, *Professor and Sun Trust Bank Professor*

Gladys Simpson, Senior Instructor

Hemang C. Subramanian, Assistant Professor

Debra VanderMeer, Professor and Knight

Ridder Research Fellow

Nicole Wishart, Senior Instructor and Knight Ridder Research Fellow

Weidong Xia, Professor

Mission

The mission of the Department of Information Systems and Business Analytics (ISBA) is to provide students with the knowledge and ability to design, develop, implement, and use information systems that allow organizations to effectively solve problems within organizations; and to provide students with the knowledge and ability to analyze and use data for decision-making within organizations. The department offers courses in business analytics, business statistics, health informatics management information systems, operations management and project management, at both the graduate and undergraduate levels.

Students in information systems related graduate programs learn the intellectual frameworks and methods used in areas including business analytics, business process design, database management, data warehousing, global electronic commerce, enterprise-wide information systems, information security management, project management, and systems analysis and design (including object-oriented applications).

The Department offers a Master of Science in Health Informatics and Analytics (MSHIA), Master of Science in Information Systems (MSIS), and Management Information Systems (MIS) concentration within the College of Business' Ph.D. in Business Administration program.

Master of Science in Health Informatics and Analytics (MSHIA)

Our Master of Science in Health Informatics and Analytics is a fourteen month 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 information systems, such as data analytics, with the organizational domains of healthcare, including, the legal and policy environment, delivery processes, as well as leadership and management principles. The goal of this program is to educate effective developers, users, and managers of health information systems. Students will explore the design and use of 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 MSHIA degree program in the Chapman School, prospective students must:

- 1. Hold a U.S. Bachelor's degree or equivalent from an accredited college or university.
- 2. Submit a competitive score on the Graduate Management Admission Test (GMAT) or Graduate Record Exam (GRE). Waiver of the requirement could be considered if either a) the applicant has a minimum of four (4) years of professional experience directly related to the program or b) if the applicant already completed a graduate degree in a directly related field from an accredited university with a minimum of a 3.0 cumulative grade point average (GPA).
- Have a minimum upper division grade point average (GPA) of 3.0.
- Provide a personal statement on the motivation to attend the program, including personal and career goals.
- 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 213 on the computer-based TOEFL, or 6.5 overall of the International English Language Testing System (IELTS).
- If applicant is a student in the FIU Graduate Certificate in Healthcare Management or FIU Graduate Certificate in Health Informatics programs and has completed the first 12 credits with a GPA of

3.25 or higher, he or she may be eligible for admission to the MSHIA program. Appropriate courses from the Certificate program may be transferred into the MSHIA 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:

- Satisfy all University requirements for a Master's degree.
- 2. Meet the 36 hours required in the M.S. in Health Informatics and Analytics "Program of Study."
- Earn an overall "B" (3.0) cumulative Grade Point Average.
- 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.
- Complete Professional Development Seminars I-III (0 credits) offered through the College of Business.

Program Format

Students will complete the program in 14 months. Students will complete this program as a cohort. The program will be offered online. Two courses are generally taken each eight-week term within the semester.

The students will be considered full time as within a "semester", if they complete 12 graduate credit hours. The MSHIA degree consists of 12 courses.

Required Courses

The following ten courses are required for the MSHIA

aegree:		
HIM 6682	Quality and Outcomes Analytics	3
HIM 6865	Healthcare Database Systems	3
HIM 6527	Healthcare Information Security and	
	Privacy	3
HIM 6628	Health Data Visualization	3
HIM 5065	Introduction to Health and Health	
	Informatics	3
QMB 6357	Business Statistical Analysis	3
HIM 6685	Clinical Information Systems	3
HIM 6124	Technical and Data Architectures and	
	Standards for Health Care	3
HIM 6019	Legal and Ethical Aspects of Healthcare	€ 3
HIM 6517	Healthcare Project Management	3
One of the following degree:	ng courses is required for the MSHIA	

HIM 6125	Healthcare Informatics and Analytics	
	Capstone	3
HIM 6858	Health Informatics/Analytics Practicum	

(proposed by student & subject to departmental approval) 3

One of the following courses (selected at the Department's discretion for each cohort) is required for the MSHIA degree:

HIM 6694	Consumer Health Informatics	3
HIM 6937	Special Topics	3
MAN 6245	Organizational Behavior	3

Professional Development Seminars I, II, III

Seminars are mandatory, non-credit requirements.

For more information, please contact the Program Manager at mshia@fiu.edu or (305) 348-0594.

Master of Science in Information System (MSIS)

Our Master of Science in Information Systems (MSIS) is the only program of its kind designed with strategic direction from the top South Florida Chief Information Officers (CIOs) ensuring our program delivers knowledge critical to the success of future CIOs.

To better prepare students for senior managerial and executive roles, we offer an integrated curriculum that combines technical and IS/IT management skills, including electronic commerce management and strategy, database management, systems analysis and design, project management, and business analytics. This approach enables an understanding of the complexities of today's most critical business systems and an ability to manage IT resources to produce the best results for the organization.

- 1. Students complete the program in 12 to 14 months (with classes held on Saturdays).
- Students improve soft skills through numerous professional development seminars focused on leadership, team-building skills, oral and written presentation skills, and career preparation, while gaining experience in sought after technology skills. Additionally, students build a future network of highly qualified professionals and peers within the IS/IT field.

Admission Requirements

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

- Hold a 4-year U.S. equivalent Bachelor's degree from an accredited college or university.
- Submit a competitive score on the Graduate Management Admission Test (GMAT) or Graduate Record Exam (GRE). Waiver of the requirement could be considered at the Department's discretion if either a) the applicant has a minimum of four (4) years of professional experience directly related to the program or b) if the applicant already completed a graduate degree in a directly related field from an accredited university with a minimum of a 3.0 cumulative grade point average (GPA), or is entering a business master's program under a special agreement for admissions with specific foreign universities or c) if the applicant already completed the BBA in Information Systems or Business Analytics or related undergraduate degree at FIU, with a minimum upper division grade point average (GPA) of 3.25, and completed an internship that meets the Department's standards for a GMAT/GRE waiver
- Have a minimum upper division grade point average (GPA) of 3.0.
- 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 FIU Graduate Certificate in Business Analytics program or in the FIU Graduate Certificate in Business Cybersecurity program, and has completed the first 12 credits with a GPA of 3.25 or higher, he or she may be eligible for admission to the MSIS degree program. Appropriate courses from the Certificate program may be transferred into the MSIS degree program.
- 7. Be in good standing with all previously attended colleges and universities.

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

To complete the MSIS degree, students need to successfully complete all 10, three-credit hour courses for a total of 30 credit-hours, maintain a B average (3.0 GPA), complete mandatory Professional Development Seminars, and satisfy all University requirements for a Master's degree.

Core Courses

The following seven core courses are required for the MSIS degree:

ISM 6205	Database Management	3
ISM 6316	Project Management of Information	
	Sciences	3
ISM 6106	Systems Analysis	3
ISM 6128	Business Process Design	3
ISM 6307	Management of the Information	
	Systems Function	3
ISM 6338	Information Systems Strategy and	
	Governance	3
ISM 6328	Information Security Management	3

Elective Courses

To complete the MSIS degree students may take three courses selected at the Department's discretion for each cohort from the list of elective courses below. One of these electives must have a business application development component.

ISM 6024	Managing Distributed Architecture	3
ISM 6136	Business Analytics Applications	3
ISM 6156	Enterprise Information Systems	3
ISM 6208	Data Warehousing	3
ISM 6251	Emerging Information	
	Technologies	3
ISM 6489	E-business and Blockchain Applications	3
ISM 6930	Special Topics in Management	3
	Information Systems	
ISM 6942	MIS Internship	3
QMB 6357	Business Statistical Analysis	3
	•	

Professional Development Seminars I, II, III

Optional Elective

ISM 6942 MIS Internship 1-3

Students who fail more than one class may be dismissed from the MSIS degree program.

Professional Development Seminars

Seminars will focus on soft skills such as leadership, team building, oral presentation, and career exploration. There will be team-building activities, including classroom exercises in group decision-making and problem-solving.

Challenging outdoor exercises help students 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 skills coach to improve the communication skills that are critical to managerial success.

Professional Development Seminars I, II, and III will focus on improving student's soft skills. Seminars will be mandatory, non-credit. Topics of Professional Development Seminars are subject to change based on industry trends and demands.

For additional information, please visit http://msis.fiu.edu or contact the Program Manager at (305) 348-0594 or msis.@fiu.edu.

Program Format

Students will complete the program in 12 months with classes on Saturdays. Students will complete this program as a cohort. The program offers almost all classes in 8-week terms. Two to three courses each term. Students will be considered full time during a "semester", or two terms in the cohort, they will complete at least 12 graduate credit hours.

Master of Science in Information Systems / Business Analytics Track

The Business Analytics Track of the Master of Science in Information Systems degree prepares students for careers such as business analysts, data analysts or business analytics managers. The Business Analytics Track provides students with a clear designation of their concentration in the field. The Business Analytics Track consists of 11 courses (33 credit hours) within the MSIS degree.

Required Core Courses

Students are required to complete all seven of the following core courses (21 credit hours)

ISM 6205	Database Management	3
ISM 6316	Project Management of Information	
	Sciences	3
ISM 6106	Systems Analysis	3
ISM 6128	Business Process Design	3
ISM 6307	Management of the Information	
	Systems Function	3
ISM 6338	Information Systems Strategy and	
	Governance	3
ISM 6328	Information Security Management	3

Required Track Courses

Students are required to compete all four of the following courses in the field of business analytics (12 credit hours)

QMB 6357	Business Statistical Analysis	[′] 3
ISM 6208	Data Warehousing	3
ISM 6136	Business Analytics Applications	3
ISM 6404	Business Data Visualization and	
	Reporting	3

To complete the MSIS degree, Business Analytics Track, students need to successfully complete all 11, three credit-hour courses for a total of 33 credit-hours, maintain a B average (3.0 GPA), complete mandatory professional development seminars, and satisfy all University requirements for a Master's degree.

Master of Science in Information Systems/Business Cybersecurity Track

The Business Cybersecurity Track of the Master of Science in Information Systems degree prepares students for careers such as chief security officer, cybersecurity manager, cybersecurity analyst or privacy officer. The Business Cybersecurity Track provides students with a clear designation of their concentration in the field. The Business Cybersecurity Track requires students to complete 11 courses (33 credits) within the MSIS degree.

Required Core Courses

Students are required to complete all seven of the following core courses (21 credit hours).

ISM 6205	Database Management	3
ISM 6316	Project Management of Information	
	Sciences	3
ISM 6106	Systems Analysis	3
ISM 6128	Business Process Design	3
ISM 6307	Management of the Information	
	Systems Function	3
ISM 6338	Information Systems Strategy and	
	Governance	3
ISM 6328	Information Security Management	3

Required Track Courses

Students are required to compete all four of the following courses in the field of business cybersecurity (12 credit hours).

ISM 6575	Security Risk Management and	
	Organizational Cyber Resilience	3
ISM 6325	Ethical Hacking for Business	3
ISM 6327	Protecting and Defending Business	
	Digital Assets	3
ISM 6326	Information Security: Ethics, Regulation	
	And Compliance	3

To complete the MSIS degree, Business Cybersecurity Track students need to successfully complete all 11, three-credit hour courses for a total of 33 credit-hours, maintain a B average (3.0 GPA), complete mandatory professional development seminars, and satisfy all University requirements for a Master's degree.

Master of Science in Information Systems/Master of Business Administration Joint Degree Pathway

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

 Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree pathway. Candidates deciding to pursue the joint degree

- pathway after having been admitted to one program will indicate this intention only on their second application.
- Applications for the joint degree pathway will not be accepted from candidates who have already completed either degree. MBA or MSIS 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. The two degrees will have two four common courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. MSIS courses transferred to meet MBA elective credit must be 6000 level courses approved by the University Curriculum Committee. Directors of the MBA and MSIS degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSIS curriculums.

3.1 Joint Flex MBA/MSIS Degree Pathway

To obtain MSIS/MBA through the Flex program, students must complete the following courses for a total of 66 credit hours as follows:

In the Flex MBA Program (33 credit hours) ACG 6026 Accounting for Managers 3				
ACG 6026 Accounting for Managers				
ACG 6175	Financial Reporting and Analysis			
BUL 6810	Legal Environment	3 3 3 3 3 3 3		
FIN 6406	Corporate Finance	3		
FIN 6446	Competitive Strategy	3		
MAN 6501	Operations Management	3		
MAN 6245	Organizational Behavior	3		
MAN 6726	Strategic Management	3		
MAN 6830	Organizational Information Systems	3		
MAR 6805	Marketing Management in the	2		
MAR 6816	Global Environment	3		
QMB 6357	Corporate Simulation	3 3		
QIVID 0337	Business Statistical Analysis	3		
In the MSIS prog	gram (33 credit hours):			
ISM 6106	Systems Analysis	3		
ISM 6205	Database Management	3		
ISM 6136	Business Analytics			
	Applications	3		
ISM 6307	Management of the Information	n		
	Systems Function	3		
ISM 6208	Data Warehousing	3		
ISM 6128	Business Process Design	3		
ISM 6328	Information Security			
	Management	3		
ISM 6338	Information Systems Strategy	_		
1011	and Governance	3		
ISM 6316	Project Management of Information			
	Sciences	3		
	MIS Elective	3 3		
D (: 1D	MIS Elective	3		
Professional Dev	velopment Seminars (PDS) I, II, III			
	ing courses (selected at the Department's	S		
discretion for each cohort) are required for the MSIS				
Degree:				
ISM 6024	Managing Distributed Architecture	3		
ISM 6156 Enterprise Information Systems				

Emerging Information

E-business and Blockchain Applications 3

Technologies

ISM 6251

ISM 6489

ISM 6138 ISM 6930	Managing Unstructured Data Special Topics in Management	3 3	students must o	S/MBA through the Professional progra	
Information Systems ISM 6942 MIS Internship		3	72 credit hours	ogram (39 credit hours):	
Optional Elective ISM 6942	e MIS Internship	1-3	ACG 6026 ACG 6175	Accounting for Managers Financial Reporting and Analysis	3 3
To obtain MS19	national MBA/MSIS Degree Pathway S/MBA through the International progran omplete the following courses for a total o as follows:		BUL 6810 FIN 6406 FIN 6446 FIN 6644 MAN 6608	Legal Environment of Business Corporate Finance Competitive Strategy Global Financial Strategy International Business	3 3 3 3
	gram (42 credit hours):	_	MAN 6501	Operations Management	3
ACG 6026	6026 Accounting for Managers	3	MAN 6245	Organizational Behavior	3
ACG 6175	Financial Reporting and Analysis	3	MAN 6726	Strategic Management	3
BUL 6810 FIN 6406	Legal Environment of Business Corporate Finance	3 3	MAR 6805	Marketing Management in the Global Environment	3
FIN 6644	Global Financial Strategy	3	MAR 6816	Corporate Simulation	3
MAN 6501	Operations Management	3	QMB 6357	Business Statistical Analysis	3
MAN 6245	Organizational Behavior	3		evelopment Seminars (PDS)	J
MAN 6726	Strategic Management	3			
MAN 6608	International Business	3		ogram (33 credit hours):	_
MAN 6703	Colloquium in Managing	•	ISM 6106	Systems Analysis	3
	Organizational Ethics	1	ISM 6205	Database Management	3
MAN 6679	Master's Project	3	ISM 6136	Business Analytics	•
MAR 6805	Marketing Management in the		ICM 6207	Applications	3
	Global Environment	3	ISM 6307	Management of the	2
MAR 6816	Corporate Simulation	3	ISM 6208	Information Systems Function Data Warehousing	3 3
QMB 6357	Business Statistical Analysis	3	ISM 6208	Business Process Design	3
Professional De	velopment Seminars (PDS) II, III	2	ISM 6328	Information Security	3
In the MSIS pro-	gram (33 credit hours):		101VI 0020	Management	3
•		_	ISM 6338	Information Systems Strategy	Ū
ISM 6106	Systems Analysis	3	5555	and Governance	3
ISM 6205	Database Management	3	ISM 6316	Project Management of	-
ISM 6136	Business Analytics	0		Information Sciences	3
ICM 6207	Applications	3		MIS Elective	3
ISM 6307	Management of the Information Systems Function	2		MIS Elective	3
ISM 6208	Data Warehousing	3 3	Professional De	evelopment Seminars (PDS) I, II, III	
ISM 6128	Business Process Design	3	Two of the follo	wing courses (selected at the Departmen	t's
ISM 6328	Information Security	J		ach cohort) are required for the MSIS	
10W 0020	Management	3	degree:	don concity are required for the Mere	
ISM 6338	Information Systems Strategy	•	ISM 6024	Managing Distributed Architecture	3
	and Governance	3	ISM 6156	Enterprise Information Systems	3
ISM 6316	Project Management of		ISM 6251	Emerging Information	
	Information Sciences	3		Technologies	3
	MIS Elective	3	ISM 6489	E-business and Blockchain Application	าร 3
	MIS Elective	3	ISM 6138	Managing Unstructured Data	3
Professional De	velopment Seminars (PDS) I, II, III		ISM 6930	Special Topics in Management	
				Information Systems	3
	wing courses (selected at the Department'	S	ISM 6942	MIS Internship	3
	ch cohort) are required for the MSIS		Optional Electiv	/e	
degree:	M	•	ISM 6942	MIS Internship	1–3
ISM 6024	Managing Distributed Architecture	3	Notes.	•	
ISM 6156	Enterprise Information Systems	3	Notes:	to the Corporate MDA depend on tre	ماء
ISM 6251	Emerging Information Technologies	3		s for the Corporate MBA depend on tra candidate has elected the option of	
ISM 6489	E-business and Blockchain Applications			the requirements and shared/comm	
ISM 6138	Managing Unstructured Data	3		e Flex MBA will be used. Otherwise, t	
ISM 6930	Special Topics in Management	5		ind shared/common courses for the PMI	
IOIVI UBOU	Information Systems	3	will be used.	and shared/common courses for the FIVE	- /\
ISM 6942	MIS Internship	3		e MBA and Professional MBA in Healthca	ire
	•	J		programs are not included as an option	
Optional Elective			the joint degree		
ISM 6942	MIS Internship	1–3		pathway candidates will not receive eith	ner
00 11 25 5	A STATE OF THE STA			requirements for both programs have be	
3.3. Joint Profe	ssional MBA/MSIS Degree Pathway			,	

3.3. Joint Professional MBA/MSIS Degree Pathway

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 pathway candidate.

For additional information, contact the MBA office at (305) 348-6852 or the MSIS Office at (305) 348-0148.

Master of Accounting/Master of Science in Information Systems Joint Degree Pathway

The School of Accounting and the MSIS program in the Alvah H. Chapman Jr. Graduate School of Business at Florida International University are proposing a joint degree pathway culminating in both a Master in Accounting (MACC) and a Master of Information Systems (MSIS). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

- Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on their initial application their intention to pursue the joint degree pathway.
- 2. Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree.
- Domestic undergraduate non-accounting degree holders; and international degree holders, regardless of major, will take the following courses, for a saving of 15 credits:
 - 24 credits at the 6000-level from the MSIS
 - 15 credits at the 5000-level from the MACC
 - 30 credits at the 6000-level from the MACC
- Domestic undergraduate accounting degree holders from AACSB accredited universities may petition to waive the 5000-level MACC courses, saving an additional 15 credits.
- All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. Directors of the MACC and MSIS degree programs may adjust these exact course requirements as a result of future changes to the MACC or MSIS programs.
- 6. Joint degree pathway 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 firstdegree program requirements as if the student had never been a joint degree pathway candidate.

Master of Science in Health Informatics and Analytics/Master of Business Administration in Healthcare Management (MSHIA/MBA-HM) Joint Degree Pathway

The Master of Science in Health Informatics and Analytics and the Professional MBA in Healthcare Management program in the Alvah H. Chapman Jr. Graduate School of

Business at Florida International University are offering a joint degree pathway culminating in both a Master of Business Administration (MBA) in Healthcare Management and a Master of Science in Health Informatics and Analytics degree (MSHIA). Under the joint degree pathway, a student can obtain both degrees in significantly less time than it would take to obtain both degrees if pursued consecutively. The joint degree pathway will use existing faculty, courses, and resources. Important criteria relating to the joint degree pathway are as follows:

- Candidates to the joint degree pathway must meet the entrance requirements established by each individual program. Candidates must indicate on the application their intention to pursue the joint degree pathway. Students deciding to pursue the joint degree pathway after having been admitted to one program will indicate this intention only on their second application.
- Applications for a joint degree pathway will not be accepted from candidates who have already completed either degree. MBA in Healthcare Management or MSHIA 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 MSHIA degree, the student will have to fulfill all the MSHIA program requirements. To obtain the MBA degree, the student will have to fulfill all the MBA program requirements. The two degrees will have four common, or overlapping, courses. All courses transferred between degrees must be completed with a grade point average of 3.0 or higher. Directors of the MBA and MSHIA degree programs may adjust these exact course requirements as a result of future changes to the MBA or MSHIA curriculums.

3.1. To obtain the MSHIA degree, MBA in Healthcare Management students must complete a total of 24 credits as follows:

as ionows.				
HIM 6682	Quality and Outcomes Analytics	3		
ISM 6205	Database Management	3		
ISM 6326	Information Security and Compliance	3		
ISM 6136	Business Analytics Applications	3		
HIM 6685	Clinical Information Systems	3		
ISM 6305	Information Systems Planning	3		
ISM 6316	Project Management of Information			
	Sciences	3		
ISM 6128	Business Process Design	3		
From the MBA in Healthcare Management program the				
following 12 ci	redit hours will be transferred:			
BUL 6810	Legal Environment of Business	3		
MAN 6830	Organizational Information Systems	3		
MAN 6245	Organizational Behavior	3		
MAN 6097	Managerial Decision-Making in Hea	ılth		
	Economics	3		

3.2. To obtain the MBA in Healthcare Management, MSHIA degree students must complete a total of 24 credits as follows:

MAN 6501	Operations Management	3
MAN 6098	Management of Healthcare Finar	nce and
	Reimbursement	3
MAR 6805	Marketing Management in the	Global
	Environment	3

ACG 6026	Accounting for Managers	3
BUL 6605	Healthcare Fraud and Abuse Law and	d
	Regulation	3
MAN 6726	Strategic Management	3
FIN 6406	Corporate Finance	3
ACG 6175	Financial Reporting and Analysis	3
From the MSHIA	program the following 12 credit hours wi	II
be transferred:		
HIM 5065	Introduction to Health and Health	h
	Informatics	3
HIM 6019	Legal and Ethical Aspects of	
	Healthcare	3
QMB 6357	Business Statistical Analysis	3
MAN 6245	Organizational Behavior	3
	OR	
HIM 6694C	Consumer Health Informatics	3

4. Joint degree pathway 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 pathway candidate. With the joint degree pathway students will take a total of 60 credit hours to get both degrees. Without the joint degree pathway students will need to take 78 credit hours to get both degrees. Thus, MBA in Healthcare Management students who have taken twelve credits of MSHIA common courses may obtain an MSHIA degree with an additional 24 credits. MSHIA students who have taken twelve credits of a MBA in Healthcare Management common courses may obtain an MBA in Healthcare Management degree with only 24 credits.

For additional information, contact the MBA office at (305) 348-3256 or the MSHIA Office at (305) 348-0594.

MIS Concentration in the Ph.D. Program

The Department of Information Systems and Business Analytics (ISBA) offers a Management Information Systems (MIS) concentration in the doctoral program in Business Administration. The Ph.D. Program is a 75-credit program.

Course Study

Year I Fall		
ISM 7345	Organizational and Strategic Applications of IS research	3
QMB 6603	Quantitative Methods in Management	3
ISM 7935	Research in Information Systems	3
Spring		
STA 5206	Design Of Exper I	3
or		
STA 5126	Fundamentals of Design of Experiments	3
MAN 7155	Fundamentals of Behavioral Research	3
ISM 7152	Seminar on System Acquisition & Implementation	3
Summer		
ISM 7906	Independent study for Doctoral Students	6
Year II Fall		
QMB 7910 ISM 7406	Quantitative Research Methods in IS Business Analytics Research	3 3

	=	
ISM 7126 Spring	Design Science Research	3
Opinig	Seminar in IS	3
	Seminar in IS	3
	Seminar in IS	3
Summer		
ISM 7906	Independent study for Doctoral	
	Students	6
Year III		
Fall		
ISM 7981	Dissertation Preparation	9
Spring		
ISM 7980	Ph.D. Dissertation	3
Summer		
ISM 7980	Ph.D. Dissertation	3
Year IV		
Fall		
ISM 7980	Ph.D. Dissertation	3
Spring		
ISM 7980	Ph.D. Dissertation	3
Summer		
ISM 7980	Ph.D. Dissertation	6

Please contact the Ph.D. Program Director at (305) 779-7981 for further requirements and details.

Graduate Certificate in Health Informatics and Analytics

The objective of this graduate certificate is to provide individuals with a basic understanding of health information technology and management of the complex inherent within the healthcare sector.

Admission Requirements

Students must have an earned baccalaureate degree with a GPA of 2.75 or higher. This certificate is open to both degree-seeking students and those who are not currently enrolled at FIU.

Prerequisite:

Computer skills including: Word, Excel and PowerPoint

Program of Study (15)

Any five of the following courses subject to prerequisite requirements:

HIM 5065	Introduction to Health and Healt	h
	Informatics	3
HIM 6019	Legal and Ethical Aspects of	
	Healthcare	3
HIM 6124	Technical and Data Architectures and	
	Standards for Healthcare	3
HIM 6517	Healthcare Project Management	3
QMB 6357	Business Statistical Analysis	3
HIM 6865	Healthcare Database Systems	3
HIM 6628	Health Data Visualization	3
HIM 6682	Quality and Outcomes Analytics	3
HIM 6685	Clinical Information Systems	3
HIM 6694C	Consumer Health Informatics	3
ISM 6326	Information Security and Compliance	3
HIM 6858	Health Informatics/Analytics	
	Practicum*	3

*proposed by student and subject to department approval

3

Graduate Certificate in Healthcare Management

The objective of this 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. This certificate is open to both degree-seeking students and those who are not currently enrolled at FIU.

Prerequisite:

Computer skills including: Word, Excel and PowerPoint

Program of Study (15):

MAN 6095	Management of Healthcare	
	Organizations in the 21st Century	3
HSA 6176	Financing and Reimbursement of Hea	alth
	Systems	3
MAN 6830	Organization Information Systems	3
HSA 6156	Economic and Decision Analysis in	
	Health Services	3
MAN 6501	Operations Management	3

Graduate Certificate in Business Analytics

The objective of this graduate certificate is to provide individuals with a basic understanding of the application of statistical methods, techniques, and tools to large data sets proliferating across organizations, in an effort to address persistent and evolving business problems.

Admission Requirements

Students must have an earned baccalaureate degree with a GPA of 2.75 or higher. This certificate is open to both degree-seeking students and those who are not currently enrolled at FIU.

Prerequisite:

Computer skills including: Word, Excel and PowerPoint

Program of Study (15):

The certificate requires completion of the following courses (6 credit hours):

Reporting

QMB 6357 ISM 6208	Business Statistical Analysis Data Warehousing	3 3
The certificate als following courses ISM 6205 HIM 6865	o requires completion of one of the (3 credit hours): Database Management Healthcare Database Systems	3
	ertificate requires completion of one of ses (3 credit hours): Business Analytics Applications Quality and Outcome Analytics	3
Finally, the certific following courses ISM 6404	cate requires completion of one of the (3 credit hours): Business Data Visualization and	

HIM 6628 Health Data Visualization

Graduate Certificate in Advanced Business Analytics

The objective of this graduate certificate is to provide individuals with an advanced understanding of the application of statistical methods, techniques, and tools to large data sets proliferating across organizations, in an effort to address persistent and evolving business problems. The proposed Graduate Certificate in Advanced Business Analytics focuses on developing the advanced skills required to pursue careers in big data, or as quantitative analysts. As public and private entities accumulate ever-increasing stores of data assets, their ability to efficiently and effectively analyze such assets constitutes a key core competency. Students will gain hands on experience applying statistical methods and techniques through use of decision support systems (DSS), expert systems (ES), business intelligence (BI) reporting tools, in addition to business analytics (BA) data mining tools and data visualization tools.

Admission Requirements

Students must have an earned baccalaureate degree with a GPA of 3.0 or higher. This certificate is open to both degree-seeking students and those who are not currently enrolled at FIU.

Prerequisite:

Graduate certificate in Business Analytics or equivalent course work

Program of Study (15):

Managing Unstructured Data	3
Data Management	3
Project Management of Information	
Sciences	3
Quantitative Methods for Business	3
Emerging Technologies	3
	Data Management Project Management of Information Sciences Quantitative Methods for Business

Graduate Certificate in Cybersecurity Management

The objective of the Graduate Certificate in Cybersecurity Management is consistent with the university's aim of becoming a hub for cybersecurity research and education.

Admission Requirements

The Graduate Certificate in Cybersecurity Management targets both degree seeking and non-degree seeking students.

- The applicant must hold a 4-year U.S. equivalent Bachelor's degree from an accredited college or university with a GPA of 2.75 or higher.
- Applicants who earned the Bachelor's degree outside of the U.S. must demonstrate proficiency in the English language by presenting a minimum score of 80 on the iBT TOEFL (equivalent to 550 on paperbased version) or 6.5 overall of the International English Language Testing System (IELTS

Program of Study (15):

3

ISM 6328 Information Security Management

282	College	of Bus	iness
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Graduate Catalog 2020-2021

ISM 6575	Security Risk Management and	
	Organizational Cyber Resilience	3
ISM 6325	Ethical Hacking for Business	3
ISM 6327	Protecting and Defending Business	
	Digital Assets	3
ISM 6326	Information Security: Ethics, Regulation	
	and Compliance	3