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FLORIDA ATLANTIC UNIVERSITY

PROGRAM CHANGE REQUEST Graduate Programs

Department Information Technology and Operations Mgmt

College Business

UGPC Approval	
UFS Approval	
Banner Posted	
Catalog	

Program Name	P	ro	gr	am	N	an	16
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MS in Information Technology Management (MSITM)

Effective Date (TERM & YEAR)

Summer 2018

Consult and list departments that may be affected by

the change(s) and attach documentation

Please explain the requested change(s) and offer rationale below or on an attachment

This proposal requests updating the catalog:

- Change terminology from "options" to "tracks"
- · Add 2 additional tracks: CS Data Analytics and Business Analytics
- Update the course list in the Advanced Information Technology Track and the Information Technology Management Track.

Details of the requested catalog changes are provided in the attachment.

Derrick Huang dhuang@fau.edu 7-2776		quested and agreed to this ting and Marketing Department d not have objections (attached).
Approved by		Date
Department Chair		1/24/2018
College Curriculum Chair	norther'	1/30/2018
College Dean		1/30/2018
UGPC Chair		
UGC Chair ————————————————————————————————————		
Graduate College Dean		
UFS President		
Provost		

 $Email\ this\ form\ and\ attachments\ to\ \underline{UGPC@fau.edu}\ one\ week\ before\ the\ UGPC\ meeting\ so\ that\ materials\ may\ be\ viewed\ on\ the\ UGPC\ website\ prior\ to\ the\ meeting.$

GRADUATE COLLEGE

Faculty Contact/Email/Phone

College of Engineering and Computer Science

Computer & Electrical Engineering and Computer Science

Master of Science with Major in Information Technology and Management

The Master of Science with Major in Information Technology and Management (MSITM) is jointly offered by the Department of Computer & Electrical Engineering and Computer Science (CEECS) in the College of Engineering and Computer Science and the Department of Information Technology and Operations Management (ITOM) in the College of Business. Designed for highly motivated individuals with computing and/or managerial backgrounds, the program aims to prepare students for a management career in the area of information technology in organizations. To allow for maximum flexibility in career aspirations, students can select from four trackstwo-options: Advanced Information Technology, emphasizing the technical aspect of organizational IT systems; and Information Technology Management, focusing on the management issues of IT in organizations; CS Data Analytics; and Business Analytics.

Admission Requirements

To be admitted to the MSITM program applicants must have:

- 1. An undergraduate degree in Computer Science, Information Engineering Technology or an IT-related field of study. Applicants with another undergraduate degree and documented work experience of two or more years in an IT function will be evaluated as well;
- 2. An undergraduate GPA of 3.0 or higher;
- 3. A combined score (verbal + quantitative) of at least 295 on the Graduate Record Examination (GRE) or a GMAT score of 500 or higher. GRE scores more than five years old are normally not acceptable;
- 4. International students from non-English-speaking countries must be proficient in written and spoken English as evidenced by a score of at least 500 (paper-based test) or 213 (computer-based test) or 79 (Internet-based test) on the Test of English as a Foreign Language (TOEFL) or a score of at least 6.0 on the International English Language Testing System (IELTS); and
- 5. Met other requirements of the FAU Graduate College.

Curriculum Requirements

Students are required to complete 33 graduate-level credits, or 11 three-credit courses, with a 3.0 GPA or better to graduate. Students in Advanced Information Technology and CS Data Analytics tracks will be awarded the degree by the College of Engineering and Computer Science, while those in Information Technology Management and Business Analytics tracks will have their degrees awarded by the College of Business. For more information about the Master of Science in Information Technology and Management degree program, call the Department of Computer & Electrical Engineering and Computer Science at 561-297-3482, or emailceecs@fau.edu.

Advanced Information Technology

Students are required to take the following four courses:

Software Engineering	CEN 5035
Object-Oriented Software Design	COP 5339
Data Mining and Machine Learning OR	CAP 6673
Theory and Implementation of the Database Systems	<u>COP</u> 6731
Management of Information Systems and Technology	ISM 6026

GRADUATE COLLEGE

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In addition, students need to take five electives from the following CEECS courses:			
<u>CAP</u> 6673			
CAP 6778			
CEN 6027			
CEN 6076			
CIS 6370			
CNT 6517			
COT 5930			
COT 6930			
CEN 6405			
CNT 6885			
CEN 6085			
EEL 6591			
CAP 6776			
CEN 5086			
COP 6731			
CTS 6319			
<u>CAP</u> 6807			
<u>CAP</u> 6315			
<u>CAP</u> 6411			
<u>CNT</u> 5106			
ė			
ISM 6316			
ISM 6328			

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Enterprise Information Technology Service Management	ISM 6368
Web-Based Business Development	ISM 6508
Information Technology Sourcing Management	ISM 6509
Advanced Business Analytics	<u>ISM</u> 6405
Data Mining and Predictive Analytics	<u>ISM</u> 6136
Social Media and Web Analytics	<u>ISM</u> 6555
Mobile Apps for Business	ISM 6058

Information Technology Management
Students are required to take the following eight seven courses offered by the College of Business:

Management of Information Systems and Technology	ISM 6026		
Information Technology Project and Change Management	ISM 6316		
Advanced Business Analytics	ISM 6405		
Management of Information Assurance and Security	ISM 6328		
Enterprise Information Technology Service Management	ISM 6368		
Web-Based Business Development Electronic Commerce and Internet Business Applications	ISM 6508		
Information Technology Sourcing Management	ISM 6509		
Graduate Business Communication Applications	GEB 6215		
In addition, students need to take one elective from the following ITOM courses:			
Introduction to Business Analytics and Big Data	ISM 6404		
Advanced Business Analytics	ISM 6405		
Data Mining and Predictive Analytics	ISM 6136		
Social Media and Web Analytics	ISM 6555		
Mobile Apps for Business	ISM 6058		
In addition Finally, students need to take three electives from the following courses offered by the College of Engineering and Computer Science:			
Data Mining and Machine Learning	CAP 6673		
Software Maintenance and Evolution	CEN 6076		
Software Testing	CEN 6076		

Computer Data Security	CIS 6370
Computer Network Programming	CNT 5715
Mobile Computing	CNT 6517
Object-Oriented Software Design	COP 5339
Theory and Implementation of Database Systems	COP 6731
Topics in Computer Science	COT 5930
Wireless Networks	EEL 6591
Information Retrieval	CAP 6776
Cloud Computing	CEN 5086
Cyber Security: Measurement and Data Analysis	CTS 6319
Software Engineering	CEN 5035
Computational Advertising and Real-Time Data Analytics	CAP 6807
Social Network and Big Data Analytics	CAP 6315
Introduction to Neural Networks	CAP 5615
Foundations of Vision	CAP 6411
Software Architecture and Patterns	CEN 6085
Sensor Networks and Smart Systems	CNT 5106

CS Data Analytics
Students are required to take three courses:

Software Engineering	<u>CEN</u> 5035	
Object-Oriented Software Design	COP 5339	
Data Mining and Machine Learning OR	CAP 6673	
Introduction to Neural Networks	COP 5615	
In addition, students need to take five electives from the following CEECS courses:		
Data Mining and Machine Learning (if not counted in the required courses group)	CAP 6673	
Introduction to Neural Networks (if not counted in the required courses group)	COP 5615	
Social Networks and Big Data Analytics	CAP 6315	
Deep Learning	CAP 6619	
Data Mining for Bioinformatics	CAP 6771	

Information Retrieval	<u>CAP</u> <u>6776</u>			
Web Mining	<u>CAP</u> 6777			
Advanced Data Mining and Machine Learning	<u>CAP</u> 6778			
Big Data Analytics with Hadoop	<u>CAP</u> 6780			
Computer Performance Modeling	<u>CEN</u> 6405			
Computational Advertising and Real-Time Data Analytics	CAP 6807			
The last three electives must be chosen from the following ITOM courses:				
Data Mining and Predictive Analytics	<u>ISM</u> 6136			
Database Management Systems	<u>ISM</u> 6217			
Introduction to Business Analytics and Big Data	<u>ISM</u> 6404			
Advanced Business Analytics	<u>ISM</u> 6405			
Social Media and Web Analytics	<u>ISM</u> 6555			
Data Analysis for Managers	<u>QMB</u> 6603			

Business Analytics

Students are required to take the following seven courses offered by the College of Business:

Management of Information Systems and Technology	ISM 6026		
Information Technology Project and Change Management	ISM 6316		
Introduction to Business Analytics and Big Data	ISM 6404		
Data Mining and Predictive Analytics	ISM 6136		
Advanced Business Analytics	ISM 6405		
Social Media and Web Analytics	ISM 6555		
Graduate Business Communication Applications	GEB 6215		
In addition, students need to take one elective from the following ITOM courses:			
IT Sourcing Management	ISM 6509		
Web Based Business Development	ISM 6508		
Mobile Apps for Business	ISM 6058		
Management of Information Assurance and Security	ISM 6328		

Enterprise Information Technology Service Management	ISM 6368
Finally, students need to take three electives from the following courses offered by the College of Engineering and Computer Science:	
Data Mining and Machine Learning	CAP 6673
Information Retrieval	CAP 6776
Computational Advertising and Real-Time Data Analytics	CAP 6807
Social Network and Big Data Analytics	CAP 6315
Introduction to Neural Networks	CAP 5615
Deep Learning	CAP 6619
Data Mining for Bioinformatics	CAP 6771
Web Mining	CAP 6777
Advanced Data Mining and Machine Learning	CAP 6778
Big Data Analytics with Hadoop	CAP 6780
Computer Performance Modeling	CEN 6405