Fau	NEW/CHANGE PROGRAM REQUEST Graduate Programs		UGPC Approval UFS Approval Banner
FLORIDA ATLANTIC	Department Information Technology and	Operations Management	Catalog
UNIVERSITY	College Business		
Program Name		New Program*	Effective Date (TERM & YEAR)
	cience with Major in Information Management (MSITM)	Change Program*	Spring 2022
Please explain	the requested change(s) and offer ra	ationale below or on an	attachment.
1. Updating the	name of the Department of Electrical Eng	ineering and Computer S	cience.
2. Adding ISM 6 3. Updating the Concentration.	ange/updates are made to include new of 455, Blockchain and Digital Business Tracomposition of required and elective coulombs and changes to existing programs must be acco	nnsformation, as an elective rses for the Information Te	chnology Management
		the change(s) and attack	
Dr. T. Dinev / tdin	ev@fau.edu / 7-3181	Computer Science, support le	etter attached
	\cap		
Approved by	Alland		Date San 10 2021
Department Chai	r	()	Sep 10, 2021
College Curriculu		-lh	Supplement of all all all all all all all all all al
College Dean –	Ken Johnson Beet	L	9/22/2021 / Oct 22, 2021
UGPC Chair —	Pai Plan-		Oct 22, 2021
UGC Chair —	form withing		Oct 22, 2021
Graduate College	Dean		
UFS President			

Email this form and attachments to UGPC@fau.edu 10 days before the UGPC meeting.

Provost

Tamara Dinev

From:

Hangi Zhuang

Sent:

Monday, September 13, 2021 6:16 PM

To:

Tamara Dinev

Subject:

Re: Curriculum housecleaning of MSITM

Dear Tamara,

These changes are fine to me. One suggestion, you may replace CEECS with EECS without deleting the acronym.

Thanks, Hanqi

From: Tamara Dinev <tdinev@fau.edu>
Sent: Monday, September 13, 2021 4:43 PM
To: Hanqi Zhuang <zhuang@fau.edu>

Subject: Curriculum housecleaning of MSITM

Dear Dr. Zhuang:

I would like to ask if you have any concerns regarding the attached catalog minor changes of the MSITM program and the accelerated BBA to MSITM program:

Your department name is updated, as well as some business courses are re-arranged, including adding the newly created blockchain course and cleaning up a course listed both in required and elective in the business tracks. Please see attached.

Best Regards:

Tamara

Tamara Dinev, Ph.D., Department Chair and Professor
Dean's Distinguished Research Fellow
Department of Information Technology and Operations Management, FL 219
College of Business, Florida Atlantic University
Boca Raton, Florida 33431
tel. (561) 297-3181, email: tdinev@fau.edu

Google Scholar: https://scholar.google.com/citations?user=YH8QZ-YAAAAJ&hl=en

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 (CEECSECS) 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 concentrations: Advanced Information Technology, emphasizing the technical aspect of organizational IT systems; Information Technology Management, focusing on the management issues of IT in organizations; Computer Science Data Analytics; and Business Analytics. (Department name change effective fall 2021.)

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. GRE or GMAT scores more than five years old are normally not acceptable. The GRE and the GMAT requirement is waived for any student who has a baccalaureate degree from either FAU's Department of Computer & Electrical Engineering and Computer Science (CEECSEECS) or FAU's Department of Information Technology and Operations Management (ITOM) with a GPA of at least 3.25 (out of a possible 4.0) in the last 60 credits attempted prior to graduation;
- 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. Meet other requirements of the FAU Graduate College.

Degree Requirements

Students in the Advanced Information Technology and Computer Science Data Analytics concentrations are required to complete 30 graduate-level credits, or 10, 3-credit courses (5000 level or higher), with a 3.0 GPA or better to graduate. Students in the Information Technology Management and Business Analytics concentrations are required to complete 33 graduate-level credits, or 11, 3-credit courses (5000 level or higher), with a 3.0 GPA or better to graduate.

Students in the Advanced Information Technology and Computer Science Data Analytics concentrations will be awarded the degree by the College of Engineering and Computer Science, while those in the Information Technology Management and Business Analytics concentrations

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 email ceecs@fau.edu.

Advanced Information Technology Concentration (30 credits)

Students are required to take the following three courses:	
Software Engineering	CEN 5035
Theory and Implementation of the Database Systems	COP 6731
Management of Information Systems and Technology	ISM 6026
In addition, students need to take five electives from the following Electrical Engineering and Computer Science CEECSEECS cours CEECSEECS department courses may be used as electives with p CEECSEECS advisor:	ses. Additional
Computational Foundations of Artificial Intelligence	CAP 5625
Mobile Application Development	CAP 5675
Introduction to Data Science	CAP 5768
Social Network and Big Data Analytics	CAP 6315
Foundations of Vision	CAP 6411
Applied Machine Learning	CAP 6610
Natural Language Processing	CAP 6640
Data Mining and Machine Learning	CAP 6673
Information Retrieval	CAP 6776
Advanced Data Mining and Machine Learning	CAP 6778
Computational Advertising and Real-Time Data Analytics	CAP 6807
Advanced Internet Systems	CAP 6819
Cloud Computing	CEN 5086
Software Maintenance and Evolution	CEN 6027
Software Testing	CEN 6076
Software Architecture and Patterns	CEN 6085
Computer Performance Modeling	CEN 6405
Computer Data Security	CIS 6370
Sensor Networks and Smart Systems	CNT 5109
Mobile Computing	CNT 6517
Video Communication	CNT 6885

Topics in Computer Science	COT 5930	
Topics in Computer Science	COT 6930	
The last two electives must be chosen from the following ITOM courses:		
Mobile Apps for Business	ISM 6058	
Data Mining and Predictive Analytics	ISM 6136	
Information Technology Project and Change Management	ISM 6316	
Management of Information Assurance and Security	ISM 6328	
Enterprise Information Technology Service Management	ISM 6368	
Advanced Business Analytics	ISM 6405	
Business Innovation with Artificial Intelligence	ISM 6427C	
Web-Based Business Development	ISM 6508	
Information Technology Sourcing Management	ISM 6509	
Social Media and Web Analytics	ISM 6555	
Blockchain and Digital Business Transformation	ISM 6455	
Special Topics	ISM 6930	
Data Management and Analysis with Excel	QMB 6303	

Information Technology Management Concentration (33 credits)

Students are required to take the following seven six courses offered Business:	l by the College of
Management of Information Systems and Technology	ISM 6026
Information Technology Project and Change Management	ISM 6316
Management of Information Assurance and Security	ISM 6328
Enterprise Information Technology Service Management	ISM 6368
Web-Based Business Development	ISM 6508
Information Technology Sourcing Management	ISM 6509
Communication Strategies for Business Professionals and Core- Course Follow-Up	GEB 6215
Students must take one two elective from the following ITOM courses:	
Mobile Apps for Business	ISM 6058

Data Mining and Predictive Analytics	ISM 6136
Enterprise Information Technology Service Management	ISM 6368
Advanced Business Analytics	ISM 6405
Business Innovation with Artificial Intelligence	ISM 6427C
Social Media and Web Analytics	ISM 6555
Special Topics	ISM 6930
Data Management and Analysis with Excel	QMB 6303
Blockchain and Digital Business Transformation	<u>ISM 6455</u>

In addition, students must take three electives from the following courses offered by the College of Engineering and Computer Science. Additional Department of Electrical Engineering and Computer Science <u>CEECSEECS</u> courses may be used as electives with prior approval of the <u>CEECSEECS</u> advisor:

Introduction to Neural Networks	CAP 5615
Computational Foundations of Artificial Intelligence	CAP 5625
Introduction to Data Science	CAP 5768
Social Network and Big Data Analytics	CAP 6315
Foundations of Vision	CAP 6411
Applied Machine Learning	CAP 6610
Natural Language Processing	CAP 6640
Data Mining and Machine Learning	CAP 6673
Information Retrieval	CAP 6776
Computational Advertising and Real-Time Data Analytics	CAP 6807
Software Engineering	CEN 5035
Cloud Computing	CEN 5086
Software Maintenance and Evolution	CEN 6027
Software Testing	CEN 6076
Software Architecture and Patterns	CEN 6085
Computer Data Security	CIS 6370
Sensor Networks and Smart Systems	CNT 5109
Mobile Computing	CNT 6517
Theory and Implementation of Database Systems	COP 6731
Topics in Computer Science	COT 5930, COT 6930

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Computer Science Data Analytics Concentration (30 credits)

	er and Electrical	
Students are required to take the following three courses offered by the Computer and Electrical Engineering and Computer Science (CEECSEECS) Department:		
Introduction to Data Science	CAP 5768	
Software Engineering C	CEN 5035	
Theory and Implementation of the Database Systems	COP 6731	
In addition, students must take four <u>CEECSEECS</u> department electives, at least from the <u>CEECSEECS</u> Data Analytics group:	two of which are	
CEECSEECS Data Analytics electives are listed below. Additional CEECSEEC may be used with prior approval of the CEECSEECS advisor.	S department courses	
Introduction to Neural Networks	CAP 5615	
Social Network and Big Data Analytics	CAP 6315	
Data Mining for Bioinformatics	CAP 6546	
Applied Machine Learning	CAP 6610	
Deep Learning C	CAP 6619	
Natural Language Processing	CAP 6640	
Data Mining and Machine Learning	CAP 6673	
Information Retrieval	CAP 6776	
Web Mining	CAP 6777	
Advanced Data Mining and Machine Learning	CAP 6778	
Big Data Analytics with Hadoop	CAP 6780	
Computational Advertising and Real-Time Data Analytics	CAP 6807	
Computer Performance Modeling	CEN 6405	
Other <u>CEECSEECS</u> electives are listed below. Additional <u>CEECSEECS</u> departnused with prior approval of the <u>CEECSEECS</u> advisor.	nent courses may be	
Computational Foundations of Artificial Intelligence	CAP 5625	
Cloud Computing C	CEN 5086	
Computer Data Security	CIS 6370	
Sensor Networks and Smart Systems	CNT 5109	
Mobile Application Development	COP 5675	
Advanced Internet Systems	COP 6819	

The last three electives must be chosen from the following ITOM courses:		
Data Mining and Predictive Analytics	ISM 6136	
Database Management Systems	ISM 6217	
Introduction to Business Analytics and Big Data	ISM 6404	
Advanced Business Analytics	ISM 6405	
Business Innovation with Artificial Intelligence	ISM 6427C	
Social Media and Web Analytics	ISM 6555	
Special Topics	ISM 6930	
Data Management and Analysis with Excel	QMB 6303	
Data Analysis for Managers	QMB 6603	

Note: Students in this concentration meet the requirements for the <u>Big Data Analytics certificate</u>. Follow up with the <u>CEECSEECS</u> advisor to apply for the certificate.

Business Analytics Concentration (33 credits)

Students are required to take the following seven courses offered by the College of Business:		
Management of Information Systems and Technology	ISM 6026	
Data Mining and Predictive Analytics	ISM 6136	
Introduction to Business Analytics and Big Data	ISM 6404	
Advanced Business Analytics	ISM 6405	
Business Innovation with Artificial Intelligence	ISM 6427C	
Social Media and Web Analytics	ISM 6555	
Communication Strategies for Business Professionals and Core-Course Follow-Up	GEB 6215	
Students must take one elective from the following ITOM courses:		
Mobile Apps for Business	ISM 6058	
Information Technology Project and Change Management	ISM 6316	
Management of Information Assurance and Security	ISM 6328	
Enterprise Information Technology Service Management	ISM 6368	
Web-Based Business Development	ISM 6508	
Information Technology Sourcing Management	ISM 6509	
Special Topics	ISM 6930	
Data Management and Analysis with Excel	QMB 6303	

Blockchain and Digital Business Transformation	<u>ISM 6455</u>

In addition, students must take three electives from the following courses offered by the College of Engineering and Computer Science. Additional <u>CEECSEECS</u> department courses may be used as electives with prior approval of the <u>CEECSEECS</u> advisor.

Introduction to Neural Networks	CAP 5615
Computational Foundations of Artificial Intelligence	CAP 5625
Introduction to Data Science	CAP 5768
Social Network and Big Data Analytics	CAP 6315
Data Mining for Bioinformatics	CAP 6546
Applied Machine Learning	CAP 6610
Deep Learning	CAP 6619
Natural Language Processing	CAP 6640
Data Mining and Machine Learning	CAP 6673
Information Retrieval	CAP 6776
Web Mining	CAP 6777
Advanced Data Mining and Machine Learning	CAP 6778
Big Data Analytics with Hadoop	CAP 6780
Computational Advertising and Real-Time Data Analytics	CAP 6807
Computer Performance Modeling	CEN 6405