TATT	NEW/CHANGE PROGR	RAM REQUEST	UGPC Approval
FAU	Graduate Prog	· ·	UFS Approval
FLORIDA		<u> </u>	Banner
FLORIDA ATLANTIC	Department Electrical Engineering and (Computer Science	Catalog
UNIVERSITY	College Engineering and Computer S	cience	
Program Name		New Program*	Effective Date (TERM & YEAR)
MS Information	Fechnology and Management	✓ Change Program*	Summer 2022
Please explain	the requested change(s) and offer r	ationale below or on an	attachment.
In this proposal table.	the EECS electives are identified by the	course prefix rather than lis	sting specific courses in the
*All new programs	and changes to existing programs must be acco	ompanied by a catalog entry sh	owing the new or proposed changes
Faculty Contact/			nents that may be affected by
Hanqi Zhuang, zhi	uang@fau.edu	the change(s) and attach	n documentation
561-297-3413		College of Business, ITOM	
Approved by	A in in	1	Date
Department Chair			1/26/2022
College Curriculu	m Chair et 7		01-26-2022

1/26/22

Mar 3, 2022

Mar 3, 2022

Mar 3, 2022

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

College Dean

UGPC Chair

UGC Chair

Provost

UFS President

Graduate College Dean

Master of Science with Major in Information Technology and Management

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	
Management of Information Systems and Technology	10101 0020	
In addition, students need to take five electives from the <u>graduate</u> <u>courses</u> <u>with prefix CAP, CDA, CEN, CIS, COP, COT</u> <u>and CNT</u> <u>offered by the following</u> Department of Electrical Engineering and Computer Science (EECS)_courses. Additional EECS department courses may be used as <u>electives</u> with prior approval of the EECS advisor:		
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
Blockchain and Digital Business Transformation	ISM 6455
Web-Based Business Development	ISM 6508
Information Technology Sourcing Management	ISM 6509
Social Media and Web Analytics	ISM 6555
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 six courses offered by the College of Business:		
Management of Information Systems and Technology	ISM 6026	
Information Technology Project and Change Management	ISM 6316	
Management of Information Assurance and Security	ISM 6328	
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 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	
Blockchain and Digital Business Transformation	ISM 6455	
Social Media and Web Analytics	ISM 6555	
Special Topics	ISM 6930	
Data Management and Analysis with Excel	QMB 6303	
	<u> </u>	

In addition, students must take three electives from the following courses graduate courses with prefix CAP, CDA, CEN, CIS, COP, COT and CNT offered by the Department of Electrical Engineering and Computer Science (EECS). College of Engineering and Computer Science. Additional Department of Electrical Engineering and Computer Science (EECS) courses may be used as electives with prior approval of the EECS advisor:

U	Introduction to Neural Networks	CAP 5615
ш	Introduction to Neural Networks	0/11 00 1

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)

Students are required to take the following three courses offered by the Electrical Engineering and Computer Science (EECS) Department:		
Introduction to Data Science	CAP 5768	
Software Engineering	CEN 5035	
Theory and Implementation of the Database Systems	COP 6731	
In addition, students must take four EECS department electives <u>as</u> follows:, at least two of which are from the EECS Data Analytics group: two graduate courses with prefix CAP and two graduate courses with prefix CAP, CDA, CEN, CIS, COP, COT or CNT.		
EECS Data Analytics electives are listed below. Additional EECS department courses may be used with prior approval of the EECS advisor.		
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	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 EECS electives are listed below. Additional EEC courses may be used with prior approval of the EECS		
Computational Foundations of Artificial Intelligence	CAP 5625	
Cloud Computing	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	

Note: Students in this concentration <u>may satisfy meet</u> the requirements for the <u>Big Data Analytics certificate</u>. Follow up with the EECS advisor to <u>see if you meet all the requirements for the certificate</u>. 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

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
Blockchain and Digital Business Transformation	ISM 6455
Web-Based Business Development	ISM 6508
Information Technology Sourcing Management	ISM 6509
Special Topics	ISM 6930
Data Management and Analysis with Excel	QMB 6303

In addition, students must take three electives from the following courses offered by the College of Engineering and Computer Science. Additional EECS department courses may be used as electives with prior approval of the EECS advisor. electives from the EECS department as follows: two graduate courses with prefix CAP and one graduate courses with prefix CAP, CDA, CEN, CIS, COP, COT or CNT.

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

From: Tamara Dinev <tdinev@fau.edu>

Sent: Wednesday, January 26, 2022 12:26 PM

To: Mihaela Cardei <mcardei@fau.edu> **Cc:** Hanqi Zhuang <zhuang@fau.edu> **Subject:** RE: Catalog revisions to MS ITM

Dear Dr. Cardei, Dr. Zhuang:

I have no objections to the proposed changes

Best Regards:

Tamara

Tamara Diney, 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

From: Mihaela Cardei <mcardei@fau.edu>
Sent: Tuesday, January 25, 2022 8:32 AM
To: Tamara Dinev <tdinev@fau.edu>
Cc: Hanqi Zhuang <zhuang@fau.edu>
Subject: Catalog revisions to MS ITM

Dear Dr. Dinev,

EECS is proposing some catalog revisions to the MSITM program where the EECS electives are identified by the course prefix rather than listing specific courses in the table. Please see the attachment. Could you please review and let us know if you have any objections.

thank you, Mihaela Cardei