
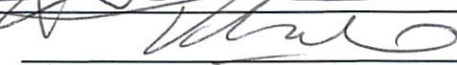

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Graduate Programs		UGPC Approval _____ UFS Approval _____ Banner Posted _____ Catalog _____
	Department CEECS College Engineering and Computer Science		
Program Name Master of Science with Major in Information Technology and Management		<input type="checkbox"/> New Program <input checked="" type="checkbox"/> Change Program	Effective Date (TERM & YEAR) Spring 2020
Please explain the requested change(s) and offer rationale below or on an attachment Add CAP 6640 and CAP 5768 to the group of CS elective courses. Allow other CEECS electives with prior approval of the instructor.			
Faculty Contact/Email/Phone Val Aalo / aalo@fau.edu / 561-297-3485		Consult and list departments that may be affected by the change(s) and attach documentation College of Business / ITOM	
Approved by Department Chair  College Curriculum Chair  College Dean  UGPC Chair _____ UGC Chair _____ Graduate College Dean _____ UFS President _____ Provost _____			Date 4/15/2019 4/15/19 4/16/2019 _____ _____ _____ _____

Email this form and attachments to 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

APR 19 2019

Received

Master of Science with Major in Information Technology and Management

Advanced Information Technology Concentration

Students are required to take four courses from the following list:

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

In addition, students need to take four electives from the following CEECS courses. Additional CEECS courses may be used as electives with prior approval of the CEECS advisor:

Data Mining and Machine Learning (if not counted in the required courses group)	CAP 6673
Advanced Data Mining and Machine Learning	CAP 6778
Software Maintenance and Evolution	CEN 6027
Software Testing	CEN 6076
Computer Data Security	CIS 6370
Mobile Computing	CNT 6517
Topics in Computer Science	COT 5930
Topics in Computer Science	COT 6930
Computer Performance Modeling	CEN 6405
Video Communication	CNT 6885
Software Architecture and Patterns	CEN 6085
Information Retrieval	CAP 6776
<u>Natural Language Processing</u>	<u>CAP 6640</u>
<u>Introduction to Data Science</u>	<u>CAP 5768</u>
Cloud Computing	CEN 5086
Theory and Implementation of Database Systems (if not counted in the required courses group)	COP 6731
Cyber Security: Measurement and Data Analysis	CTS 6319
Computational Advertising and Real-Time Data Analytics	CAP 6807
Social Network and Big Data Analytics	CAP 6315
Foundations of Vision	CAP 6411
Sensor Networks and Smart Systems	CNT 5109

The last two electives must be chosen from the following ITOM courses:

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

GRADUATE COLLEGE

APR 19 2019

Received

Information Technology Sourcing Management	ISM 6509
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

Information Technology Management Concentration

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
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
Graduate Business Communication Applications	GEB 6215

Students must take one elective from the following ITOM courses:

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, students must take three electives from the following courses offered by the College of Engineering and Computer Science. [Additional CEECS courses may be used as electives with prior approval of the CEECS advisor:](#)

Data Mining and Machine Learning	CAP 6673
Software Maintenance and Evolution	CEN 6027
Software Testing	CEN 6076
Computer Data Security	CIS 6370
Mobile Computing	CNT 6517
Object-Oriented Software Design	COP 5339
Theory and Implementation of Database Systems	COP 6731
Topics in Computer Science	COT 5930
Information Retrieval	CAP 6776
Natural Language Processing	CAP 6640
Introduction to Data Science	CAP 5768
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 5109

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Computer Science Data Analytics Concentration

Students are required to take three courses from the following list:

Software Engineering	CEN 5035
Object-Oriented Software Design	COP 5339
Data Mining and Machine Learning	CAP 6673 or
Introduction to Neural Networks	CAP 5615
In addition, students must take four 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)	CAP 5615
Social Network and Big Data Analytics	CAP 6315
Deep Learning	CAP 6619
Natural Language Processing	CAP 6640
Data Mining for Bioinformatics	CAP 6546
Information Retrieval	CAP 6776
Web Mining	CAP 6777
Advanced Data Mining and Machine Learning	CAP 6778
Big Data Analytics with Hadoop	CAP 6780
Computer Performance Modeling	CEN 6405
Computational Advertising and Real-Time Data Analytics	CAP 6807
Introduction to Data Science	CAP 5768
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
Social Media and Web Analytics	ISM 6555
Data Analysis for Managers	QMB 6603

Business Analytics Concentration

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
Students must take one elective from the following ITOM courses:	
Information Technology 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
In addition, students must 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
Natural Language Processing	CAP 6640
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 6546
Web Mining	CAP 6777
Advanced Data Mining and Machine Learning	CAP 6778
Big Data Analytics with Hadoop	CAP 6780
Computer Performance Modeling	CEN 6405
Introduction to Data Science	CAP 5768

From: Tamara Dinev
Sent: Monday, April 15, 2019 11:11 AM
To: Mihaela Cardei
Cc: Valentine Aalo
Subject: RE: Big Data Analytics Certificate & MSITM programs

Dear Dr. Cardei:

ITOM approves the change.

Best Regards:

Tamara

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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>

From: Mihaela Cardei <mcardei@fau.edu>
Sent: Monday, April 15, 2019 10:51 AM
To: Tamara Dinev <tdinev@fau.edu>
Cc: Valentine Aalo <aalo@fau.edu>
Subject: Big Data Analytics Certificate & MSITM programs

Dear Dr. Dinev,

CEECS department is proposing to add new courses to the group of CS courses, for the Big Data Analytics Certificate & MSITM program. Please see attached the catalog changes.

Please let me know if you approve.

Thank you,
Mihaela