

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Graduate Programs		UGPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	Department Computer and Electrical Eng and Computer Science College Engineering and Computer Science		
Program Name MS in Information Technology and Management	<input type="checkbox"/> New Program* <input checked="" type="checkbox"/> Change Program*	Effective Date <i>(TERM & YEAR)</i> Fall 2020	
<p>Please explain the requested change(s) and offer rationale below or on an attachment.</p> <p>Revisions of the curriculum for the CS concentrations - restructuring in terms of which courses are core courses and which courses are electives. In addition, two new courses are being added as electives. Please see the attachment for more information.</p>			
<p><small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small></p>			
Faculty Contact/Email/Phone Dr. Hanqi Zhuang/Zhuang@fau.edu/561-297-3413		Consult and list departments that may be affected by the change(s) and attach documentation ITOM, College of Business	
Approved by Department Chair <u>Hanqi Zhuang</u> <small>Digitally signed by Hanqi Zhuang DN: cn=Hanqi Zhuang, o=FAU, ou=CEEC, email=hanqizhuang@fau.edu, c=US Date: 2020.02.24 11:31:44 -0500</small>		Date <u>2/24/2020</u>	
College Curriculum Chair <u>Ramesh Teegavarapu</u> <small>Digitally signed by Ramesh Teegavarapu DN: cn=Ramesh Teegavarapu, o=Florida Atlantic University, ou=CEEC, Department of Engineering, email=rt@ceec.fau.edu, c=US Date: 2020.02.27 10:17:24 -0500</small>		<u>2/27/2020</u>	
College Dean <u>Mihaela Cardei</u> <small>Digitally signed by Mihaela Cardei DN: cn=Mihaela Cardei, o=Florida Atlantic University, ou=Engineering, email=cardei@fau.edu, c=US Date: 2020.02.27 10:17:24 -0500</small>		<u>2/27/2020</u>	
UGPC Chair _____		_____	
UGC Chair _____		_____	
Graduate College Dean _____		_____	
UFS President _____		_____	
Provost _____		_____	

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

GRADUATE COLLEGE

FEB 27 2020

Master of Science with Major in Information Technology and Management

Advanced Information Technology Concentration

Students are required to take the following four three 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 <u>fivefour</u> 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
Natural Language Processing	CAP 6640
Introduction to Data Science	CAP 5768
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
Advanced Internet Systems	COP 6819
Mobile Application Development	COP 5675
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
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
Data Management and Analysis with Excel	QMB 6303

Computer Science Data Analytics Concentration

Students are required to take the following three courses ~~from~~ offered by the following list CEECS department:

Software Engineering	CEN 5035
<u>Theory and Implementation of the Database Systems</u>	<u>COP 6731</u>
<u>Introduction to Data Science</u>	<u>CAP 5768</u>
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 <u>CEECS</u> electives from the following CEECS courses , from which at least two are <u>from the CEECS Data Analytics group</u> :-	
<u>CEECS Data Analytics</u> electives are listed below. Additional CEECS courses may be used in this group with prior approval of the <u>CEECS advisor</u> .	
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
<u>Other CEECS electives</u> are listed below. Additional CEECS courses may be used as electives with prior approval of the <u>CEECS advisor</u> .	
<u>Cloud Computing</u>	<u>CEN 5086</u>
<u>Computer Data Security</u>	<u>CIS 6370</u>
<u>Mobile App Development</u>	<u>COP 5675</u>

<u>Advanced Internet Systems</u>	<u>COP 6819</u>
<u>Sensor Networks and Smart Systems</u>	<u>CNT 5109</u>
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 Management and Analysis with Excel	QMB 6303
Data Analysis for Managers	QMB 6603

Note: Students in this concentration meet the requirements for the Big Data Analytics Certificate. Follow up with the CEECS advisor to apply for the certificate.

GRADUATE COLLEGE

FEB 27 2020

From: Tamara Dinev <tdinev@fau.edu>
Sent: Wednesday, February 26, 2020 9:21 AM
To: Mihaela Cardei <mcardei@fau.edu>
Cc: Hanqi Zhuang <zhuang@fau.edu>
Subject: RE: CEECS items

Dear Dr. Cardei:

The ITOM department approves the proposed changes.

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: Friday, February 21, 2020 6:21 PM
To: Tamara Dinev <tdinev@fau.edu>
Cc: Hanqi Zhuang <zhuang@fau.edu>
Subject: CEECS items

Dear Dr Dinev,

CEECS department is proposing the following items:

1. Catalog revisions for the CS concentrations of the MSITM (see attachment).
2. Two new course proposals (see attachment), which have been added to MSITM:
COP 6819 - Advanced Internet Systems
COP 5675 - Mobile App Development
3. Add "CAP 5768 Intro to Data Science" to the Big Data Analytics certificate (see attachment).

Could you please let me know if you approve these items.

Thank you,
Mihaela

GRADUATE COLLEGE

FEB 27 2020