Fau	NEW/CHANGE PROGRAM REQUEST Graduate Programs  Department Computer & Electrical Engineering and Comp. Science  College Engineering and Computer Science		UGPC Approval UFS Approval Banner Posted	
FLORIDA ATLANTIC			Catalog	
UNIVERSITY				
Program Name		New Program	Effective Date (TERM & YEAR)	
Big Data Analytic	s Graduate Certificate	<b>✓</b> Change Program	Summer 2018	
Please explain	the requested change(s) and offer r	ationale below or on an	attachment	
	equests updating the catalog: e "CAP 6807 Computational Advertising a	and Real-Time Data Analy	tics" to the CS Data Analytics	
			nents that may be affected by	
Dr. Mihaela Cardei / mcardei@fau.edu / 561-297-3459  College of Business, ITON				
Approved by Department Chain College Curricult College Dean UGPC Chair			2/13/18 2/14/18 2/14/18 2/14/28	
UGC Chair —				

Email this form and attachments to <a href="https://www.ugpc.org/linear.google-color: blue-color: blue

Graduate College Dean

**UFS President** 

Provost

# College of Engineering and Computer Science

# Computer & Electrical Engineering and Computer Science

### **Big Data Analytics Graduate Certificate**

The digital age is here to stay. Organizations now own and have access to unfathomable amounts of data. New technologies and efforts are needed to move on to the next phase of the digital revolution - the data revolution. To provide students with the knowledge necessary in this age of Big Data, the Department of Computer and Electrical Engineering and Computer Science (CEECS) and the Department of Information Technology and Operations Management (ITOM) have jointly designed the Big Data Analytics graduate certificate. This 12-credit certificate allows graduate students to expand their knowledge and skills in the concepts, technologies, and tools of business intelligence, data analytics and business analytics and be recognized for their achievement. The certificate program has two tracks: Computer Science (CS) and Business (BU).

#### Tracks

CS Track: The Big Data Analytics certificate with a track in Computer Science will be granted to a student who completes three 3-credit courses from the CS Data Analytics course list and one 3-credit course from the ITOM Business Analytics course list.

BU Track: The Big Data Analytics certificate with a track in Business will be granted to a student who completes three 3-credit courses from the ITOM Business Analytics course list and one 3-credit course from the CS Data Analytics course list.

#### Admission

CS Track: Open to students who have a B.S. degree in Computer Science or in a related field of science or engineering and a GPA of at least 3.0. Students must satisfy the prerequisites for each course in the program. All four courses must be completed with a GPA of 3.0 or better. All course materials are in English; all international students must demonstrate proficiency in English to enter the program.

BU Track: Open to students who have a bachelor's degree in Business or in a related field and a GPA of at least 3.0. Students must satisfy the prerequisites for each course in the program. All four courses must be completed with a GPA of 3.0 or better. All course materials are in English; all international students must demonstrate proficiency in English to enter the program.

## Big Data Analytics Courses by Track

CS Data Analytics Courses (Select three from this list and one from the courses.)	ne list of IT	ОМ
Introduction to Neural Networks	CAP 5615	3
Social Networks and Big Data Analytics	CAP 6315	3
Data Mining for Bioinformatics	CAP 6546	3
Data Mining and Machine Learning	CAP 6673	3
Information Retrieval	CAP 6776	3
Web Mining	CAP 6777	3

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Advanced Data Mining and Machine Learning	CAP 6778	3				
Big Data Analytics with Hadoop	CAP 6780	3				
Computer Performance Modeling	CEN 6405	3				
Deep Learning	CAP 6619	3				
Computational Advertising and Real-Time Data Analytics	CAP 6807	<u>3</u>				
ITOM Business Analytics Courses (Select three from this list and one from the list of CS courses.)						
Data Mining and Predictive Analytics	ISM 6136	3				
Database Management Systems	ISM 6217	3				
Introduction to Business Analytics and Big Data	ISM 6404	3				
Advanced Business Analytics	ISM 6405	3				
Social Media and Web Analytics	ISM 6555	3				
Data Analysis for Managers	QMB 6603	3				

From: Tamara Dinev

Sent: Monday, February 12, 2018 11:18:57 AM

To: Mihaela Cardei

Subject: RE: CEECS item requesting ITOM approval

Hi Dr. Cardei:

ITOM approves the addition as referred below

#### **Tamara**

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Tamara Dinev, Ph.D.

Department Chair and Professor

Dean's Research Fellow

Department of Information Technology and Operations Management

College of Business

Florida Atlantic University

Boca Raton, Florida 33431

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From: Mihaela Cardei

Sent: Monday, February 12, 2018 9:29 AM
To: Tamara Dinev <tdinev@fau.edu>

Subject: CEECS item requesting ITOM approval

Dear Dr. Dinev,

we would like to add the course "CAP 6807 Computational Advertising and Real-Time Data Analytics" to the CS Data Analytics course list in the Bug Data Analytics Graduate Certificate.

Could you please review the attached document and let me know if ITOM approves this item?

Best regards, Mihaela Cardei