TATT	NEW/CHANGE PROGRAM REQUEST Graduate Programs Department Computer and Electrical Engineering and Computer Science College Engineering and Computer Science		UGPC Approval
Lau			UFS Approval
FLODIDA			Banner
FLORIDA ATLANTIC			Catalog
UNIVERSITY			
Program Name	1	New Program*	Effective Date (TERM & YEAR)
MS in Data Scie	nce and Analytics	Change Program*	Fall 2021
Please explain	the requested change(s) and offer ra	ationale below or on an	attachment.
Add CAP 6610 A	Applied Machine Learning to the Elective:	s Table.	
*All new programs :	and changes to existing programs must be acco	empanied by a catalog entry sho	owing the new or proposed changes
Faculty Contact/	Email/Phone		nents that may be affected by
Hanqi Zhuang, zhuang@fau.edu, 561-297-3413		the change(s) and attach documentation Mathematical Sciences, Political Science, ITOM	
Approved by		igitally signed by Hanqi Zhuang ate: 2021.03.10 11:21:56 -05'00'	Date
Department Chair		tally signed by Francisco Presuel-Moreno	
College Curricului	m Chair	cm=Francisco Presuel-Moreno, o=Florida Atlantic University, ou=Ocean and hanical Engineering, email—fpresuel@fau.edu, c=US s 2021.03.10 17:27:33 -05'00'	03/10/2021
Callana Dann	Digitally signed by Mihaela Cardel Dix. on-Mihaela Cardel, O-Florida Atlantic University, ou, amail—incardala@au.adu, c-US		3/11/2021

Apr 4, 2021

Apr 5, 2021

Apr 5, 2021

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 Data Science and Analytics

Electives Table

Business Analytics					
Data Mining and Predictive Analytics	ISM 6136	3			
Database Management Systems	ISM 6217	3			
Introduction to Business Analytics and Big Data	ISM 6404	3			
, , ,	ISM 6405	3			
Advanced Business Analytics	l I	-			
Social Media and Web Analytics	ISM 6555	3			
Data Management and Analysis with Excel	QMB 6303	3			
Data Analysis for Managers	QMB 6603	3			
Database and Cloud Computing	1 [1			
Multiprocessor Architecture	CDA 6132	3			
Cloud Computing	CEN 5086	3			
New Directions in Database Systems	COP 6726	3			
Theory and Implementation of Database Systems	COP 6731	3			
Database Management Systems	ISM 6217	3			
Data Mining and Machine Learning					
Introduction to Neural Networks	CAP 5615	3			
Social Networks and Big Data Analytics	CAP 6315	3			
Data Mining for Bioinformatics	CAP 6546	3			
Machine Learning for Computer Vision	CAP 6618	3			
Deep Learning	CAP 6619	3			
Data Mining and Machine Learning	CAP 6673	3 <u>or</u>			
Applied Machine Learning	CAP 6610	<u>3</u>			
Information Retrieval	CAP 6776	3			
Web Mining	CAP 6777	3			
Advanced Data Mining and Machine Learning	CAP 6778	3			
Big Data Analytics with Hadoop	CAP 6780	3			
Computational Advertising and Real-Time Analytics	CAP 6807	3			
Computer Performance Modeling	CEN 6405	3			
Data Mining and Predictive Analytics	ISM 6136	3			
Data Security and Privacy					
Computer Data Security	CIS 6370	3			
Cyber Security: Measurement and Data Analysis	CTS 6319	3			
Management of Information Assurance and Security	ISM 6328	3			
Introduction to Cryptology and Information Security	MAD 5474	3			
Cryptanalysis	MAD 6478	3			
Quantum Mechanics 2	PHY 6646	3			
Scientific Applications and Modeling	-				

Photogrammetry and Aerial Photography Interpretation	GIS 6028C	3			
LiDAR Remote Sensing and Applications	GIS 6032C	3			
Web GIS	GIS 6061C	3			
Geospatial Databases	GIS 6112C	3			
Hyperspectral Remote Sensing	GIS 6127	3			
Spatial Data Analysis	GIS 6306	3			
Special Topics (Quantum Information Processing)	PHY 6938	3			
Computational Physics	PHZ 5156	3			
Numerical Relativity	PHZ 7609	3			
Social Data Science					
Advanced Anthropological Research 1	ANG 6090	3			
Advanced Anthropological Research 2	ANG 6092	3			
Quantitative Reasoning in Anthropological Research	ANG 6486	3			
Social Networks and Big Data Analytics	CAP 6315	3			
Quantitative Communication Research	COM 6316	3			
Special Topics (Quantitative Methods)	POS 6934	3			
Research Design in Political Science	POS 6736	3			
Seminar in Advanced Research Methods	SYA 6305	3			
Statistics and Data Applications					
Biomedical Data and Informatics	BSC 6459	3			
Biostatistics	STA 5195	3			
Statistical Computing	STA 6106	3			
Survival Analysis	STA 6177	3			
Biostatistics - Longitudinal Data Analysis	STA 6197	3			
Applied Statistical Methods	STA 6207	3			
Regression Analysis	STA 6236	3			
Mathematical Statistics	STA 6326	3			
Applied Time Series Analysis	STA 6857	3			
Applied Computational Topology	MTG 6329	3			

From: Kevin Wagner < kwagne15@fau.edu>
Sent: Wednesday, March 10, 2021 11:46 AM
To: Mihaela Cardei < mcardei@fau.edu>

Subject: Fwd: MSDSA, adding CAP 6610 to the Electives Table

Three of the 4 colleges have already said they have no objection. So, even if Science had an issue, which I doubt they will, I think you are fine to represent that the committee vote was in favor.

Sorry I didn't send this out earlier.

Kevin

XMW

Kevin M. Wagner, J.D., PhD
Professor and Chair, Department of Political Science
President, FAU Faculty Senate
Trustee, FAU Board of Trustees
Director of the Jack Miller Forum
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Florida has a very broad public records law. As a result, any written communication created or received by Florida Atlantic University employees is subject to disclosure to the public and the media, upon request, unless otherwise exempt. Under Florida law, email addresses are public records.

----- Forwarded message -----

From: **Mihaela Cardei** < mcardei@fau.edu>
Date: Wed, Mar 10, 2021 at 10:26 AM

Subject: RE: MSDSA, adding CAP 6610 to the Electives Table

To: Kevin Wagner < kwagne15@fau.edu >

Hello Kevin,

Just a reminder please. We would like to meet the March 15th deadline for submitting to UGPC if possible.

Thank you in advance, Mihaela

From: Mihaela Cardei

Sent: Monday, March 8, 2021 7:29 PM **To:** Kevin Wagner < kwagne15@fau.edu>

Cc: Hanqi Zhuang@fau.edu>; Taghi Khoshgoftaar <<u>khoshgof@fau.edu</u>>

Subject: MSDSA, adding CAP 6610 to the Electives Table

Hello Kevin,

CEECS department is proposing to add CAP 6610 Applied Machine Learning to the Electives Table. Please see attached the catalog entry. Please let us know whether the MSDSA oversight committee has any objections to adding this course as an elective.

Thank you, Mihaela