NEW/CHANGE PROGRAM REQUEST
Graduate Programs

FLORIDA ATLANTIC UNIVERSITY

Department Electrical Engineering and Computer Science

College Engineering and Computer Science

UGPC Approval _____
UFS Approval _____
Banner _____
Catalog _____

Program Name	**New Program*** ☐	**Effective Date**
MS Data Science and Analytics, Engineering concentration	**Change Program*** ☑	*(TERM & YEAR)* Summer 2022

Please explain the requested change(s) and offer rationale below or on an attachment.

In this proposal the concentration courses are identified by the CAP prefix rather than listing all the courses.

*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.

Faculty Contact/Email/Phone	**Consult and list departments that may be affected by the change(s) and attach documentation**
Hanqi Zhuang, zhuang@fau.edu 561-297-3413	MS DSA committee: College of Arts & Letters, College of Science, College of Business, College of Eng. and CS.

Approved by		**Date**
Department Chair	_____	1/26/2022
College Curriculum Chair	_____	01-26-2022
College Dean	M Cardei _Digitally signed by Mihaela Cardei DN: cn=Mihaela Cardei, o=Florida Atlantic University, ou, email=mcardei@fau.edu, c=US Date: 2022.01.26 13.24.38 -05'00_	1/26/22
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.

Master of Science with Major in Data Science and Analytics

Data Science and Engineering Concentration *(This concentration is also available fully online.)*

Common Core Courses		
Introduction to Data Science	CAP 5768	3
Data Mining and Machine Learning	CAP 6673	3
Take one additional core course		
Biostatistics	STA 5195	3 **or**
Introduction to Business Analytics and Big Data	ISM 6404	3 **or**
Special Topics (Quantitative Methods)	POS 6934	3
Take four concentration courses - any course with prefix CAP offered by the EECS department or CEN 6405.		
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
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
Take three elective courses from the Electives Table. Thesis option requires only one elective course and 6 thesis credits.		

From: Mihaela Cardei <mcardei@fau.edu>
Sent: Wednesday, January 26, 2022 12:30 PM
To: William Trapani <wtrapan1@fau.edu>; Vincent Naudot <vnaudot@fau.edu>; Taghi Khoshgoftaar <khoshgof@fau.edu>; Karen Dye <kchinand@fau.edu>
Cc: William Kalies <WKALIES@fau.edu>; Tamara Dinev <tdinev@fau.edu>; Hanqi Zhuang <zhuang@fau.edu>
Subject: MSDSA Committee, item from Engineering

Dear MS DSA committee,

EECS would like to submit the attached item to UGPC for approvals. In this proposal, the concentration courses for the Engineering concentration are written as a text using the CAP prefix rather than listing them in a table:

Take four concentration courses - any course with prefix CAP offered by the EECS department or CEN 6405.

Could you please review the attachment and let us know if you have any objections.

Thank you,
Mihaela Cardei

From: Taghi Khoshgoftaar <khoshgof@fau.edu>
Sent: Wednesday, January 26, 2022 6:21 PM
To: Mihaela Cardei <mcardei@fau.edu>; William Trapani <wtrapan1@fau.edu>; Vincent Naudot <vnaudot@fau.edu>; Karen Dye <kchinand@fau.edu>
Cc: William Kalies <WKALIES@fau.edu>; Tamara Dinev <tdinev@fau.edu>; Hanqi Zhuang <zhuang@fau.edu>
Subject: Re: MSDSA Committee, item from Engineering

Greetings,

No objection. This version is better. Because we do not need to update the list when we offer a new course in this area.

Thanks.

Taghi M. Khoshgoftaar

From: Vincent Naudot <vnaudot@fau.edu>
Sent: Wednesday, January 26, 2022 6:52 PM
To: Taghi Khoshgoftaar <khoshgof@fau.edu>; Mihaela Cardei <mcardei@fau.edu>; William Trapani <wtrapan1@fau.edu>; Karen Dye <kchinand@fau.edu>
Cc: William Kalies <WKALIES@fau.edu>; Tamara Dinev <tdinev@fau.edu>; Hanqi Zhuang

<zhuang@fau.edu>
Subject: Re: MSDSA Committee, item from Engineering

No objection on my
side!

Vct

From: William Trapani <wtrapan1@fau.edu>
Sent: Monday, January 31, 2022 12:21 PM
To: Mihaela Cardei <mcardei@fau.edu>
Subject: Re: MSDSA Committee, item from Engineering

Hi Mihaela,

Arts and Letters is fine with the proposed change.

Bill

William Trapani
Director, School of Interdisciplinary Studies in the Schmidt College of Arts and Letters
Florida Atlantic University
561-297-2584

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Future Mind | SIS Americas Initiative | MS in Data Science in Society

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From: Karen Dye <kchinand@fau.edu>
Sent: Monday, January 31, 2022 12:38 PM
To: Mihaela Cardei <mcardei@fau.edu>
Cc: Tamara Dinev <tdinev@fau.edu>
Subject: Re: MSDSA Committee, item from Engineering

Mihaela -
Yes, this is fine. No objections from the COB regarding changing electives to any course
beginning with prefix CAP.

Thanks.

Karen