



## Master of Science with Major in Data Science and Analytics

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

<b>Common Core Courses</b>		
Introduction to Data Science	CAP 5768	3
Data Mining and Machine Learning	CAP 6673	3
<b>Take one additional core course</b>		
Biostatistics	STA 5195	3 or
Introduction to Business Analytics and Big Data	ISM 6404	3 or
Special Topics (Quantitative Methods)	POS 6934	3
<b>Take four concentration courses</b> - <u>any course with prefix CAP offered by the EECS department or CEN 6405.</u>		
<del>Introduction to Neural Networks</del>	<del>CAP 5615</del>	<del>3</del>
<del>Social Networks and Big Data Analytics</del>	<del>CAP 6315</del>	<del>3</del>
<del>Data Mining for Bioinformatics</del>	<del>CAP 6546</del>	<del>3</del>
<del>Machine Learning for Computer Vision</del>	<del>CAP 6618</del>	<del>3</del>
<del>Deep Learning</del>	<del>CAP 6619</del>	<del>3</del>
<del>Information Retrieval</del>	<del>CAP 6776</del>	<del>3</del>
<del>Web Mining</del>	<del>CAP 6777</del>	<del>3</del>
<del>Advanced Data Mining and Machine Learning</del>	<del>CAP 6778</del>	<del>3</del>
<del>Big Data Analytics with Hadoop</del>	<del>CAP 6780</del>	<del>3</del>
<del>Computational Advertising and Real Time Analytics</del>	<del>CAP 6807</del>	<del>3</del>
<del>Computer Performance Modeling</del>	<del>CEN 6405</del>	<del>3</del>
<b>Take three elective courses from the Electives Table. Thesis option requires only one elective course and 6 thesis credits.</b>		

**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

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**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

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**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

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**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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**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