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FLORIDA	
ATLANTIC	
UNIVERSITY	
Program Name	
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NEW/CHANGE PROGRAM REQUEST Graduate Programs

Department Computer and Electrical Eng. and Computer Science

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UGPC Approval
UFS Approval
Banner Posted
Catalog

Program Name PhD in Computer Science	New Program	Effective Date (TERM & YEAR)
The in computer colonic	Change Program	Fall 2019

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

nt requests to add a new concentration in Data Science and Analytics to the PhD program in Computer enrolled in this concentration will gain expertise, through both coursework and research activity, in theoretical and applied data science and analytics. The admission and degree requirements are described lin the attachment.

Faculty Contact/Email/Phone	Consult and list departments the
Faghi Khoshqoftaar/khoshqof@fau.edu/(561) 297 - 3994	the change(s) and attach docum

at may be affected by entation NA

Approved by	Date
Department Chair Hung Sold	2/26/2018
College Curriculum Chair	3/11/19
College Dean M. Cancly	3/11/2019
UGPC Chair	3/27/2019
UGC Chair TATEPAL	3/27/15
Graduate College Dean Rholed Solchan	3/27/2019
UFS President	
Provost	

Email this form and attachments to UGPC@fau.edu one week before the UGPC meeting so that materials may be viewed on the UGPC website prior to the meeting.

GRADUATE COLLEGE





FAUprogramchangeGR, created December 2017

Doctor of Philosophy with Major in Computer Science

Data Science and Analytics Concentration

The PhD in Computer Science program with concentration in Data Science and Analytics requires gaining expertise, through both coursework and research activity, in theoretical and applied data science and analytics.

Admission Requirements

The applicants are required to meet all the admission requirements for the Doctor of Philosophy with Major in Computer Science program.

Degree Requirements

The applicants are required to meet all the degree requirements for the Doctor of Philosophy with Major in Computer Science program. In addition, the following requirements must be met:

- The graduate coursework counted in the PhD program must contain at least 4 graduate courses from Table 1. These courses focus on theoretical and/or applied data science and analytics. Additional courses may be approved by the dissertation advisor. Graduate courses completed during a master's degree can be used to meet this requirement.
- 2. The student's PhD dissertation research and scholarship must have a strong emphasis on one or more areas of data science and analytics, including, but not limited to applied and/or theoretical areas.

Table 1

Introduction to Data Science	CAP 5768	3
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
Natural Language Processing	CAP 6640	3
Sparse Learning	CAP 6617	3
Web Mining	CAP 6777	3
Advanced Data Mining and Machine Learning	CAP 6778	3
Machine Learning for Computer Vision	CAP 6618	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	3
Artificial Intelligence	CAP 6635	3

GRADUATE COLLEGE

MAR 2 2 2019

Received