FAU	NEW/CHANGE PROGRAM REQUEST Graduate Programs		UGPC Approval UFS Approval Banner Posted
FLORIDA	Department Computer and Electrical Eng. and Computer Science College Engineering and Computer Science		Catalog
ATLANTIC UNIVERSITY			
Program Name		New Program	Effective Date
PhD in Computer Science		Chana Braana	(TERM & YEAR)
1		Change Program	Fall 2019
Please explain	the requested change(s) and offer r	ationale below or on ar	attachment
Science, Students	nt requests to add a new concentration in Da enrolled in this concentration will gain expert plied data science and analytics. The admiss	tise, through both coursework	and research activity, in
			nents that may be affected by
Taghi Khoshgoftaa	r/khoshgof@fau.edu/(561) 297 - 3994	the change(s) and attack	h documentation
Approved by		Annual and a second	Date
Department Chair	· Hung Salel		2/26/2018
College Curriculum Chair			3/11/19
College Dean _	Mandi		3/11/2019
UGPC Chair —			
UGC Chair —			

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

GRADUATE COLLEGE







Graduate College Dean

UFS President

Provost

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