

Bachelor of Science in Data Analytics

Program Overview

Associate Dean of Continuing Studies: Mark Parker
Interim Program Director: Ahmed Hamed

The mission of the BSDA program is to help students acquire and refine the knowledge, skills, and abilities needed to collect and analyze data in a variety of professional settings, and to use the results to contribute to problem-solving within organization.

Upon successful completion of the BSDA program students will be able to:

1. Evaluate organizational needs and problems and create suitable data analyses to inform solutions.
2. Apply data analytics techniques and methods to a wide array of data types using industry-standard tools.
3. Demonstrate data analyses and conclusions in an effective, ethical manner to non-specialist audiences.

Program outcomes are assessed in the core courses and capstone course, which consists of a portfolio of prior coursework as well as an original, applied data analytics project under the supervision of a qualified faculty member

Requirements

MA 107	Precalculus Mathematics	4
MA 108	Applied Calculus	4
MA 306	Discrete Mathematics	3
MA 310	Linear Algebra	3
MA 332	Advanced Statistical Methods	3
CYBR 230	Relational Databases with SQL	3
*CS150	(Programming Language for Data Science)	3
DTAN 301	Introduction to Data & Business Analytics	3
*DTAN310	(Algorithm Design and Implementation)	3
*DTAN320	(Introduction to Machine Learning and AI)	3
DTAN 330	Introduction to Network Science	3
*DTAN344	(Data Visualization)	3
*DTAN410	(CLIPS: Programming for Expert Systems)	4
*DTAN400	(Capstone)	6

Additional Required Courses

COMM 301	Business & Professional Writing	3
PHLS 210	Ethics in the Modern World	3
MNGT 330	Management Information Systems	3
IA 340	Introduction to Information Assurance	3

* courses in development but not yet approved by the University

Curriculum Committee

Total Cr.	60
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Faculty

Faculty Member	Institution at which highest degree was earned
Ahmed Hamed, PhD, Interim Program Director	University of Vermont
James Boffenmyer, MS	University of Southern Mississippi
Marcus Ellis, DBA	Sacred Heart University
Larry Musolino, MS	Rochester Institute of Technology
Regis O'Connor, MBA	Carnegie Mellon University
Paromita Tomerlin, MS	University of Florida
James Wemette, MS	Clarkson University