Bachelor of Science in Data Analytics

Program Overview

Associate Dean of Continuing Education: Mark Parker
Program Manager: Henry Collier

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

Code	Course	Cr.
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
CS 150	(Programming Languages for Data Science)	3
DTAN 301	Introduction to Data & Business Analytics	3
DTAN 310	Algorithm Design and Implementation (Alogrithm Design and Implementation)	3
DTAN 320	Introduction to Machine Learning & Artificial Intelligence (Introduction to Machine Learning and AI)	3
DTAN 330	Introduction to Network Science	3
DTAN 344	Data Visualization (Data Visualization)	3
DTAN 410	CLIPS: Programming for Expert Systems (CLIPS: programming for Expert Systems)	4
DTAN 400	Capstone (Capstone)	6
Additional Required Courses		
COMM 301	Business & ProfessionalWriting	3
PHLS 210	Ethics in the Modern World	3
MNGT 330	Management Information Systems	3
IA 340	Introduction to Information Assurance	3
courses "not found" are under development and not yet approved by the University Curriculum Committee		
Total Cr.		**60**

Faculty

Faculty Member	Institution at which highest degree was earned
Henry Collier (Program Manager)	Champlain College