

DATA SCIENCE

DURATION - 33 Weeks*

COURSES - 10



Students will be trained in analytics, data visualization, predictive modeling using Python, SQL, query and manage data repositories and generate insights. Have the opportunity to identify data patterns and trends using computer science and applied mathematics theories.

PROGRAM OVERVIEW

- Query existing & create your own databases
- Using Python & R programming to visualize data and analyze data
- Perform machine learning algorithms like k-nearest neighbors, random forest and natural language processing

WHAT WE PROVIDE

- Courses taught and delivered by industry experts
- Cutting-edge technical skills
- Preparation for dynamic career in data science

Southern Adventist University does not guarantee employment.

AVAILABLE STACKABLE BADGES & CERTIFICATION

- Created by Industry Experts and Employers
- Curriculum created by industry experts for employers and with instructors meeting college level standards.



Basic Statistics



Programming in R



Data Processing



Visualization



Intermediate Statistics



Machine Learning Modeling



Introduction to Big Data



SQL & NoSQL



Programming Foundations in Python



Group Project

LIVE-VIRTUAL SUPPORT

Admissions Advisors

Program Directors

Instructors

Directors of Education

Success Coach

Mentors

COURSE OUTLINE

DSO101	Basic Statistics	Learn what it means to be a data scientist. Understand the basics of data and perform your first analyses and visualizations
DSO102	Statistical Programming	Use R to manipulate, analyze and visualize data
DSO103	Metrics and Data Processing	Learn how to create new metrics for businesses and basics of Agile Project Management
DSO104	Data Wrangling and Visualization	Understand the process of changing structure and format of raw data until the data is compatible with sometimes rigid requirements for analysis and appreciate the power of representing data graphically
DSO105	Intermediate Statistics	Draw insight from data using advanced statistical analyses
DSO106	Machine Learning and Modeling	Predict future events and reduce risk through supervised and unsupervised machine learning and modeling techniques
DSO107	Introduction to Big Data	Learn Big Data concepts like MapReduce and learn Amazon Web Services to use Spark
DSO108	Databases	Learn how to design, store, & manipulate databases. Students will work with both relational (SQL) & non-relational databases
DSO109	Programming Foundations	Learn common programming concepts in Python such as lists, loops, dictionaries and functions
DSO110	Group Project	Solve your own real-world problem using the data analysis techniques of your choosing, then present in front of potential employers



PROFESSIONAL
WORKFORCE DEVELOPMENT

Sponsored by
Southern Adventist University

*For successful full-time enrollment.