

DATA SCIENCE AND BIG DATA ANALYTICS



Providing 40 hours of content, this open course takes a hands-on practitioners approach to the foundational techniques and tools required for data science and big data analytics. The course focuses on concepts, principles, and techniques applicable to any technology environment and industry and establishes a baseline that can be enhanced by further formal training and additional real-world experience.

- Module 1: Introduction to Big Data Analytics
- Module 2: Overview of Data Analytics Lifecycle
- Module 3: Using R for Initial Analysis of the Data
- Module 4: Advanced Analytics and Statistical Modeling for Big Data Theory and Methods
- Module 5: Advanced Analytics, and Statistical Modeling for Big Data Technology and Tools
- Module 6: Concluding and Operationalizing an Analytics Project
- Module 7: Big Data Analytics Lifecycle Lab

PRE-REQUISITE KNOWLEDGE:

Instructors and students will benefit from pre-requisite experience and education in:

- Computer Science
- Mathematics, statistics, and statistical modeling
- Computer programming

SUPPLEMENTAL RESOURCES:

Data Science and Big Data Analytics For Business Transformation: Free 90-minute self-paced module for executives who plan to develop new Data Science capabilities and would like concrete examples of how organizations are taking advantage of Big Data for data-driven decision-making.

<http://education.emc.com/transform>

Data Science and Big Data Analytics student guide

Structured lab with minimal infrastructure requirements and using open source tools



EMC Proven Professional Data Science and Big Data Analytics (E20-007)

EMC Proven Professional Associate certification

Exam administered at Pearson VUE testing centers in a controlled, proctored environment

Certification discounts available to EMC Academic Alliance member students and faculty