

Recommended Learner Journey: Statistics Pathway

Follow this learner journey if you are skilled in statistics.

1. Complete the statistics pathway to earn admission to the degree.

Data Science Foundations: Statistical Inference (3 credits)

Probability Theory: Applications for Data Science Statistical Inference for Estimation in Data Science Statistical Inference & Hypothesis Testing in Data Science Applications

2. Complete your vital skills for data scientists courses.

Vital Skills for Data Scientists

(4 credits)

Data Science as a Field Cybersecurity for Data Science Ethical Issues in Data Science Visualization Fundamentals

3. Complete core & elective courses in any order.

Data Science Foundations: Data Structures & Algorithms

(3 credits)

Algorithms for Searching, Sorting & Indexing Trees & Graphs: Basics Dynamic Programming, Greedy Algorithms

Data Mining Foundations & Practice (3 credits)

Data Mining Pipeline
Data Mining Methods
Data Mining Projects

Statistical Modeling for Data Science

(3 credits)

Modern Regression Analysis in R ANOVA Experimental Design Generalized Linear Models & Nonparametric Regression

Machine Learning

(3 credits)

Introduction to Machine Learning: Supervised Learning
Unsupervised Algorithms in Machine Learning
Introduction to Deep Learning

Databases

(2 credits)

Relational Database Design
The Structured Query Language (SQL)

Elective Courses (9 credits)

See **Curriculum** page for details. More electives coming soon.