Master of Science in Data Science

Analyze, design, and manage data sets and models used to optimize functionality, scalability, and improve business system performance. Learn database design, data processing and warehousing, data queries and interpretation, business intelligence, and statistical methods and how to apply data science strategically to improve business decision making.

Top skills learned in this program:

- Information Systems
- Data Analysis
- Data Management
- Strategic Planning
Master of Science in Data Science

Projected job growth:

9%
According to Bureau of Labor Statistics

What can you do with a Master of Science in Data Science?

A MSDS can prepare you for:

- Application Development Director
- Computing Services Director
- Data Processing Manager
- IS Supervisor, Manager, or Director
- IT Manager or Director
- MIS Director
- Technical Services Manager
- Research Scientist

According to the Bureau of Labor Statistics, projected job growth for Computer and Information Research Scientist jobs is projected to be faster than average between 2020 and 2030.

BLS projections are not specific to University of Phoenix students or graduates.

University of Phoenix is accredited by the Higher Learning Commission (HLC), hlcommission.org. Since 1978, University of Phoenix has been continually accredited by the Higher Learning Commission.
Requirements and prerequisites

Here's where you'll pick up the bulk of your program-specific knowledge. You'll need 36 credits to complete the Master of Science in Data Science degree. You may transfer eligible college credits to waive a maximum of 9 credits from your required course of study.

12 core courses

The Master of Science in Data Science features 12 core courses in topics ranging from foundations of statistical modeling to information visualization.

- DSC/510: Data Science
- DBM/502: Database Management
- DAT/565: Data Analysis and Business Analytics
- DSC/520: Artificial Intelligence, Machine Learning, and Deep Learning
- DSC/530: Data Modeling
- DSC/540: Data Integration
- DSC/550: Data Mining
- BSA/550: Customer Relationship Management
- DSC/560: Data Visualization
- DSC/570: Business Intelligence
- DSC/580: Data Governance
- DSC/590: Data Science Capstone

6 Required Program elective courses

Elective courses allow you to learn about topics you’re interested in, so you’ll have a degree that’s unique to you and your education goals. Specialize your degree by choosing electives in a combination of Business, Economics, Human Resources, Marketing, Diversity, Culture, Communication, Global Perspectives, Journalism, Media, and Information Systems.

Schedule

Your academic counselor will help schedule your courses for a Master of Science in Data Science.

What you’ll learn

When you earn your online Master of Science in Data Science, you’ll be equipped with a concrete set of skills you can apply on the job.

You’ll learn how to:
Master of Science in Data Science

- Integrate data from disparate sources while preserving data integrity
- Evaluate enterprise data for meaningful patterns and trends
- Develop presentations to explain data and share insights
- Recommend value-added solutions for business problems using statistically relevant data

*While widely available, not all programs are available to residents of all states. Please check with a University Enrollment Representative.

Bureau of Labor Statistics (BLS) projections are not specific to University of Phoenix students or graduates.