

Approx. program length:

**4 years**

Credits:

**120**

Cost per credit:

**\$398**

[Tuition Guarantee](#)

Format:

**Online**

## Bachelor of Science in Data Science

Gain the fundamental skills and knowledge needed to analyze, manipulate, and process data sets using statistical software . Learn ETL (extract, transform, load) processes for integrating datasets for BI use. Focus on data mining and modeling, data programming languages, statistical analysis, and data visualization and storytelling. Discover techniques to transform structured and unstructured data sets into meaningful information that can be used to identify data patterns and trends and drive strategic decision making.

### Top skills learned in this program:

- Data Analytics
- Data Management
- Data Visualization
- Business Intelligence

Projected job growth:

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**8%**

According to [Bureau of Labor Statistics](#)

## What can you do with a Bachelor of Science in Data Science?

A BSDS can prepare you for:

- Information Systems (IS) Manager
- Database Analyst
- Business Intelligence Analyst
- Database Architect
- Research Scientist

According to the Bureau of Labor Statistics, projected job growth for Business Intelligence Analysts on average through 2030.

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

## Possible career outcomes for graduates of this program

- Computer and Information Systems Managers

## Institutional accreditation

University of Phoenix is accredited by the Higher Learning Commission (HLC), [hlcommission.org](http://hlcommission.org). Since 1978, University of Phoenix has been continually accredited by the Higher Learning Commission and its predecessor.

Total credits required:

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**120**

## Requirements and prerequisites

Here's where you'll pick up the bulk of your program-specific knowledge. You'll need 120 credits to complete the Bachelor of Science in data science degree. Your course schedule may vary based on transferable credits or credits earned through Prior Learning Assessment.

## 19 Core courses

The Bachelor of Science in Data Science features 19 core courses in topics ranging from foundations of data analytics to predictive modeling.

- BSA/250: Foundations of Data Analytics
- PRG/211: Algorithms and Logic for Computer Programming
- DAT/210: Data Programming Languages
- BIS/340: Advanced Spreadsheet Applications
- DAT/305: Data Structures for Problem Solving
- PRG/310: Programming in Python
- DBM/300: Database Fundamentals
- PRG/315: R for Data Science
- QNT/375: Business Data Analytics
- DAT/325: SQL
- DBM/370: Database Administration
- DSC/350: Exploratory Data Analysis
- IM/310: Data Analytics and Modeling
- DAT/350: Analyzing and Mining Data
- DSC/330: Data Communication and Visualization for Business
- DSC/460: Big Data
- DSC/435: Machine Learning
- DSC/445: Predictive Modeling
- DSC/495: Data Science Capstone

## 12 General Education courses

These courses lay the foundation for all our degree programs. Because communication, math and writing skills aren't just universally applicable in data science — they're useful in daily life.

- GEN/201: Foundations for University Success
- PSY/110: Psychology of Learning
- ENG/110: English Composition I
- HUM/115: Critical Thinking in Everyday Life
- FP/100T: Everyday Economics and Finances
- ENG/210: English Composition II
- SOC/110: Teamwork, Collaboration, and Conflict Resolution
- SCI/220T: Human Nutrition
- HUM/186: Media Influences on American Culture
- SCI/256: People, Science and the Environment
- MTH/215T: Quantitative Reasoning I
- MTH/216T: Quantitative Reasoning II

## 9 required program elective courses

Elective courses allow you to learn about topics you're interested in and have a degree that's unique to you and your education goals.

- DSC/360: BUSINESS ANALYSIS PLANNING AND MONITORING
- DSC/380: ENTERPRISE BUSINESS INTELLIGENCE
- DSC/400: BUSINESS STRATEGY, REQUIREMENTS, AND PERFORMANCE ANALYSIS
- DSC/420: AGILE DATA ANALYTICS
- DSC/470: PRODUCT OWNERSHIP ANALYSIS
- DSC/490: BUSINESS ANALYTICS PROJECT
- ARTS/100: Introduction to the Visual and Performing Arts
- ENG/135: Essentials of Contemporary Communication
- SCI/163T: Elements of Health and Wellness

## Schedule

Your academic counselor will help schedule your courses for a Bachelor of Science in Data Science. You can also customize your program at any time through your first year, by selecting a certificate to add within the credit requirements.

## What you'll learn

When you earn your online Bachelor of Science in data science, you'll be equipped with a concrete set of skills you can apply on the job.