



## DATA SCIENCE

### THE DIPLOMA

The Data Science program prepares students for an entry-level career in data science.

### WHAT YOU'LL LEARN

- SQL
- Programming in Python
- Statistical Programming in R
- Tableau
- Big Data
- Machine Learning
- Data modeling
- Agile and Waterfall project management

### WHAT YOU'LL GET

- Practical skills and work habits to be successful in entry-level data science roles.
- Receive job placement assistance including resume building, interview training and help identify relevant positions in related fields.
- Access to create a virtual profile on our exclusive employment networking platform.
- Hands-on experience.

## THE WOZ U EDGE

### QUALITY CONTENT

- Created by Industry Experts & Employers
- Curriculum created by industry experts for employers and vetted by Department of Education accreditors for rigor and outcomes with instructors meeting college level standards.

### CAREER SERVICES

- Resume Building
- Interview Training
- Job Placement Assistant
- Electronic Career Profile
- Digital Badges
- Employer/Alumni
- Connections

### IN-PERSON COACH

- Admissions coach
- Financial Aid Coach
- Instructors
- Career Services Coach
- Assigned Mentor
- Student Ambassadors

### WOZ U EDGE BENEFITS

- 33** Weeks of Program Training
- 0** Unnecessary Classes
- WOZ U For Life**

## FINANCIAL AID & MILITARY ASSISTANCE AVAILABLE\* EDUCATION IS AFFORDABLE!

Women In Tech

Military Grant

Agency Sponsor Grant

Interest Free Payments  
Pay in Full Options

Montgomery GI Bill College  
& Education Assistance®

Vocational Rehabilitation

Post-Vietnam Veteran  
Education Assistance Program

Post 9/11 GI Bill®  
Education Assistance

Dependents' Educational Assistance

Selective Reserve Option of MGIB

Reserve Educational Assistance Program

\* FOR THOSE WHO QUALIFY

# COURSE OUTLINE

# CAREER SKILL BADGES

<b>DSO101</b>	<b>BASIC STATISTICS</b>	<ul style="list-style-type: none"> <li>Complete t-tests &amp; Chi-Squares in MS Excel</li> <li>Learn about the normal distribution, hypothesis testing, &amp; Type I &amp; II error</li> <li>Compute basic probability</li> </ul>
<b>DSO102</b>	<b>STATISTICAL PROGRAMMING IN R</b>	<ul style="list-style-type: none"> <li>Complete t-tests, simple linear regression, &amp; correlations in R</li> <li>Learn about data types, data structures, &amp; for loops in R</li> <li>Utilize data wrangling library dplyr &amp; data visualization package g gplot2</li> </ul>
<b>DSO103</b>	<b>METRICS &amp; DATA PROCESSING</b>	<ul style="list-style-type: none"> <li>Learn how to create &amp; utilize KPIs</li> <li>Create your own evidence-based survey</li> <li>Perform survey validation in R</li> <li>Utilize Agile project management</li> <li>Understand Waterfall project management</li> </ul>
<b>DSO104</b>	<b>DATA WRANGLING &amp; VISUALIZATION</b>	<ul style="list-style-type: none"> <li>Perform data wrangling in Python &amp; R</li> <li>Complete data recoding in Python &amp; R</li> <li>Visualize data in Tableau, Python, &amp; R</li> <li>Create infographics</li> <li>Learn how to choose the appropriate statistical test</li> </ul>
<b>DSO105</b>	<b>INTERMEDIATE STATISTICS</b>	<ul style="list-style-type: none"> <li>Perform t-tests, Chi-Squares, &amp; correlations in Python</li> <li>Learn how to normalize data</li> <li>Complete Independent, Goodness-of-Fit, &amp; McNemar Chi-Squares in R</li> <li>Perform ANOVAs, ANCOVAs, &amp; MANOVAs in R</li> <li>Determine sample size based on power calculations</li> </ul>
<b>DSO106</b>	<b>MACHINE LEARNING &amp; MODELING</b>	<ul style="list-style-type: none"> <li>Perform linear, non-linear, &amp; logistic regression modeling in Python &amp; R</li> <li>Utilize machine learning models including k-means, decision trees, random forests &amp; Bayesian networks in Python</li> <li>Learn Natural Language Processing in Python</li> </ul>
<b>DSO107</b>	<b>INTRODUCTION TO BIG DATA</b>	<ul style="list-style-type: none"> <li>Learn about the Hadoop ecosystem</li> <li>Use Hive, Pig, &amp; Spark for big data analytics</li> <li>Utilize Amazon Web Services for additional cloud computing</li> </ul>
<b>DSO108</b>	<b>DATABASE FOUNDATIONS</b>	<ul style="list-style-type: none"> <li>Query databases &amp; join tables in MySQL</li> <li>Query documents in NoSQL using MongoDB</li> </ul>
<b>DSO109</b>	<b>PROGRAMMING FOUNDATIONS IN PYTHON</b>	<ul style="list-style-type: none"> <li>Learn object-oriented programming in Python</li> <li>Utilize Jupyter Notebooks, Pandas and NumPy to complete data science tasks in Python</li> <li>Understand data types, data structures, &amp; for loops in Python</li> </ul>
<b>DSO110</b>	<b>GROUP FINAL PROJECT</b>	<ul style="list-style-type: none"> <li>Use machine learning, modeling, or advanced statistics to extract meaningful information from a dataset of your choosing</li> <li>Utilize Agile project management skills to stay on task</li> <li>Present your final project in front of peers &amp;/or potential employers to showcase your work</li> </ul>
<b>DSO111*</b>	<b>CAREER SKILLS</b>	<ul style="list-style-type: none"> <li>Create a data-science focused resume</li> <li>Polish your social media profile &amp; networking skills</li> <li>Learn how to ace technical interviews</li> <li>Begin building your data science portfolio</li> </ul>

\*not graded; just a bonus course

## JOBS YOU CAN GET

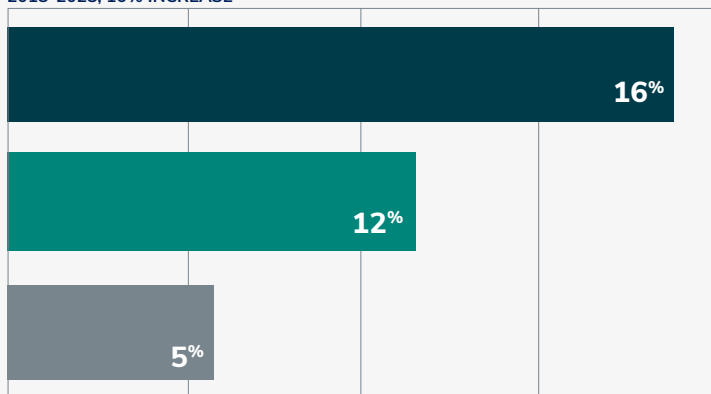
- Data or Business Analyst
- Data Scientist
- Marketing or Finance Analyst
- Database Administrator
- Programmer

## TOP EMPLOYERS HIRE OUR GRADUATES



## Projected JOB GROWTH in the Data Science Field

2018-2028, 16% INCREASE



STAT SOURCE: BLS.GOV

16% (MUCH FASTER THAN AVERAGE)



"I now have a renewed love of coding. Woz U has reawakened my desire and enjoyment of learning new things."  
- Richard Charay, Woz U Graduate

## SPEAK WITH AN ADMISSION ADVISOR TODAY!

Woz U is a diverse ecosystem that empowers Individuals (Learners), Higher Education and Corporations to overcome the talent and skill gaps plaguing the technology industry today and in the future.

CALL (833) 228 7589 OR VISIT [WOZ-U.COM](http://WOZ-U.COM)