

# Data Analytics Foundations Course

Learn the fundamentals of data analytics, including descriptive and inferential statistics, and how different industries and organizations use data for forecasting and decision-making.

Explore statistical analysis and modeling, including statistical algorithms, theorems, and models.

Group classes in Live Online and onsite training is available for this course. For more information, email [onsite@graduateschool.edu](mailto:onsite@graduateschool.edu) or visit: <https://www.graduateschool.edu/courses/data-analytics-foundations>



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## Course Outline

### Basic Data Analysis

- Measures of Central Tendency
- Measures of Position
- Measures of Dispersion
- The Normal Curve
- Descriptive Statistics

### Predictive Analytics I

- Forecasting
- Series Forecast

### Data Visualization I

- Charts
- Icon Sets
- Histograms
- Moving Average

### Predictive Analytics

- Correlation
- Regression - overview
- Regression - analysis
- Linear regression
- Multiple regression

### Probability

- Probability I

- Probability II
- Binomial Probability
- Poisson Probability

### **Prescriptive Analytics I**

- What If Analysis
- Data Table (3 variables)
- Scenario Manager
- Scenario Manager - Pivot

### **Data Visualization II**

- Sparklines
- Color Scales
- Drawing Shapes
- Pivot Tables
- Pivot Charts

### **Prescriptive Analytics II**

- Solver - overview
- Linear Programming
- The Solver model
- Non-Linear Programming
- Evolutionary Solver