COURSE SYLLABUS

Tableau Bootcamp

Learn how to use Tableau, a powerful data visualization tool, to create interactive and aesthetically pleasing charts, graphs, and maps. This bootcamp will teach you how to connect to datasets, analyze and structure data, and publish your work.

Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/courses/tableau



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Course Outline

Module I: Working with Your Data

Understanding Data

- What is data
- Where to find data
- Foundations for building Data Visualizations
- Tableau Versions
- Tableau Workflow
- Tableau Chart Types

Working with your Data in Tableau

- Using Data file formats
- Connecting your Data to Tableau
- Cleaning up the data with the Data Interpreter
- Structuring your data
- Sorting and filtering Tableau data
- Pivoting Tableau data

Creating your First Visualization

- Getting started with Tableau Software
- Using Data file formats

  CSV, TXT
- Connecting your Data to Tableau
- Creating basic charts (line, bar charts, Treemaps)
- Using the Show me panel

Tableau Calculations

- Overview of SUM, AVG and Aggregate features
- Creating custom calculations and fields
- Applying new data calculations to your visualization

Formatting your Visualization

- Formatting Tools and Menus
- Formatting specific parts of the view
- Editing and Formatting Axes

Working with your Data in Tableau

- Cleaning up the data with the Data Interpreter
- Structuring your data
- Sorting and filtering Tableau data
- Pivoting Tableau data

Organizational tools

- Using Filters
- Using the Marks panel
- Using the Detail mark card
- Using the Size mark card
- Using the Label mark card
- Customizing filters
- Using and Customizing tooltips
- Formatting your data with colors

Distributing and Publishing your Visualization

- Tableau file types
- Publishing to Tableau Online
- Sharing your visualization
- Exporting your visualization

Module II: Mapping & Advanced Visualizations

Intro to mapping data

- Concepts of mapping data
- Requirements in mapping data
- Formatting geographic data for Tableau
- Using Polygon data
- Using background images
- Integrating with Map Services - Mapbox, WMS
- Customizing map layers and map options

Creating Visualization Maps

- Creating Choropleth maps
- Creating Proportional Symbol maps
- Tracking data Over Time Using Maps & Pages
- What is a Density Map?

- Distributing and Publishing your map Visualization

Creating a Dual Axis Chart

- Dual Axis Charts
- Dual Axis (Layered) Maps
- Benefits of dual axis charts

More Chart Types

- Cyclical data and circular area chart
- Alluvial Diagram
- Ranking Chart
- Creating Spider maps
- Creating Heat maps

Creating dashboards and Stories

- Using Storytelling
- Creating your first dashboard and Story
- Design for different displays
- Adding interactivity to your Dashboard

Modifying and Updating Data

- Relinking Data Sources
- Swapping out Data Sources

Individualized Project Work

Students will work with either provided data sets or their own data to work on individual projects during this supervised classroom time.