



v c c . c a

# CMPT 1511: Designing Data Visualizations using Tableau

---

## EFFECTIVE DATE

March 2021

## DEPARTMENT

Computers - City Centre

## DESCRIPTION

During the COVID-19 pandemic, the popularity of data visualizations have surged. Data visualizations have played a significant role in communicating important information in a simple yet convincing fashion. This course covers the basic features and functionality of Tableau, a data analytics and business intelligence software. In this instructor-led training, you will gain an overview of visual data analytics. Through working with data, you will learn how to create, sort, group, and filter sets. Hands-on practice will be provided through Tableau's interface to clean and shape data. You will learn through live demonstrations while interacting with a subject matter expert.

## CREDITS

0.0

## YEAR OF STUDY

Continuing Professional Development

## PREREQUISITES

Familiarity with Excel, or Excel Level 1 (CMPT 1129)

## COREQUISITES

None

## COURSE LEARNING OUTCOMES

Upon successful completion of this course, students will be able to:

- Explain the value of data analytics and visualization for organizations
- Identify data visualization features available in Tableau
- Demonstrate the use of data cleaning and shaping steps
- Describe dashboard functionality and mobile optimization

## **PRIOR LEARNING ASSESSMENT & RECOGNITION (PLAR)**

None

## **HOURS**

Lab: 15

## **INSTRUCTIONAL STRATEGIES**

### **GRADING SYSTEM**

Satisfactory/Unsatisfactory

### **PASSING GRADE**

S (Satisfactory), based on minimum 80% attendance.

## **EVALUATION PLAN**

None

## **COURSE TOPICS**

- Overview of data analytics and business intelligence
  - Big Data and Visual Analytics
  - Creating and working with sets
  - Using filter shelf and filtering by rows
  - Tableau interface
  - Input and cleaning steps
  - Profile pane
  - Dashboards, objects, formatting, and interactivity
  - Device designer
  - Graph or chart types
  - Line chart and time series data
  - Bar charts and histograms
  - Circle and scatter plots
  - Interactive maps
  - Integration with video sharing platforms, for example YouTube
  - Dashboard actions
  - Combining charts into single dashboards

## **LEARNING RESOURCES**

None

Notes:

- Course contents and descriptions, offerings and schedules are subject to change without notice.
- Students are required to follow all College policies including ones that govern their educational experience at VCC. Policies are available on the VCC website at:  
<https://www.vcc.ca/about/governance--policies/policies/>.
- To find out how this course transfers, visit the BC Transfer Guide at <https://www.bctransferguide.ca>.

---

**Broadway campus**

1155 East Broadway  
Vancouver, B.C. Canada  
V5T 4V5

**Downtown campus**

250 West Pender Street  
Vancouver, B.C. Canada  
V6B 1S9

**Annacis Island campus**

1608 Cliveden Avenue  
Delta, B.C. Canada  
V3M 6P1

604.871.7000

**VCC.ca**

Generated at: 7:48 am on Apr. 10, 2021