

SPRING 2017 - STAT 240 E100

**INTRODUCTION TO DATA SCIENCE (3)***Class Number: 6282 Delivery Method: In Person***COURSE TIMES + LOCATION:**Mo 4:30 PM – 6:20 PM  
AQ 5018, Burnaby**EXAM TIMES + LOCATION:**Apr 10, 2017  
7:00 PM – 10:00 PM  
AQ 3154, Burnaby**INSTRUCTOR:**David Campbell  
dac5@sfu.ca  
1 778 782-3730  
Office: SUR 2911**PREREQUISITES:**

A first course in computer programming, such as CMPT 120, and either a first course in statistics - such as STAT 101, STAT 201, or STAT 270 - or 30 units.

## Description

**CALENDAR DESCRIPTION:**

Introduction to modern tools and methods for data acquisition, management, and visualization capable of scaling to Big Data. Quantitative.

**COURSE DETAILS:**

This course will use the statistical software R to acquire and clean data for answering data science questions. This class will focus on using SQL to query big data sets, handling text data from a webpage api, and scraping data from webpages.

## Grading

Weekly Lab Assignments	20%
Projects	40%
Final Exam	40%

**NOTES:*****The grading scheme above is subject to change.***

## Materials

**REQUIRED READING:****Automated Data Collection with R: A Practical Guide to Web Scraping and Text Mining.** Authors: Simon Mumzert, Christian Rubba, Peter Meissner, Dominic Nyhuis. Publisher: Wiley  
ISBN: 978-1-118-83481-7

**DEPARTMENT UNDERGRADUATE NOTES:****Students with Disabilities:**

Students requiring accommodations as a result of disability must contact the Centre for Students with Disabilities 778-782-3112 or [csdo@sfu.ca](mailto:csdo@sfu.ca)

**Tutor Requests:**

Students looking for a Tutor should visit <http://www.stat.sfu.ca/teaching/need-a-tutor-.html>. We accept no responsibility for the consequences of any actions taken related to tutors.

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Each student is responsible for his or her conduct as it affects the University community. Academic dishonesty, in whatever form, is ultimately destructive of the values of the University. Furthermore, it is unfair and discouraging to the majority of students who pursue their studies honestly. Scholarly integrity is required of all members of the University. <http://www.sfu.ca/policies/gazette/student/s10-01.html>

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