

SPRING 2018 - STAT 341 D100

INTRODUCTION TO STATISTICAL COMPUTING AND EXPLORATORY DATA ANALYSIS - R (2)

Class Number: 4431 **Delivery Method:** In Person



COURSE TIMES + LOCATION:

Th 12: 30 PM – 2: 20 PM
EDB 7618, Burnaby

EXAMTIME + LOCATION:

Apr 19, 2018
Thu 3: 30 PM – 6: 30 PM
Location: SWH 10081, Burnaby

INSTRUCTOR:

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PREREQUISITES:

STAT 285 or STAT 302 or STAT 305 or BUEC 333 or equivalent.



CALENDAR DESCRIPTION:

Introduces the R statistical package. Data management; reading, editing and storing statistical data; data exploration and representation; summarizing data with tables, graphs and other statistical tools; and data simulation. Students with credit for STAT 340 may not take STAT 341 for further credit.

COURSE DETAILS:

Course Outline:

R component

1. What is the R programming environment
 - Downloading and installing
 - Basics of writing R functions
 - Basics of loops/if/while and other control-flow constructs
2. Data management in R
 - Reading and writing data: plain text files and spreadsheets, other file formats
 - Using R to query databases with SQL
 - Merging and re-shaping data
3. Data exploration and representation in R
 - Graphical displays. Customizing and extending these displays for your own research purposes.

