ANALYSIS OF EXPERIMENTAL AND OBSERVATIONAL DATA (3AFUM;(f

Tu 11:30 AM – 1:20 PM
SSCB 9200, Burnaby

Th 11:30 AM – 12:20 PM
SSCB 9200, Burnaby

April 16, 2019
12:00 PM – 3:00 PM
RCB IMAGTH, Burnaby

Jorge Rodriguez
jer3@sfu.ca
Office: AQ 5069
Office Hours: Tuesdays 1:30-2:30 Except: Jan 29, Feb 26, Mar 26

MA course in Statistics. Open only to students in departments other than Statistics and Actuarial Science.

5. The General Linear Model
Multiple regression and analysis of variance as special cases of the general linear model. The general procedure for constructing F-tests by itting restricted models. Applications to analysis of covariance and comparison of two regression models.

6. Correlations: Multiple, Partial and Multiple-Partial
Correlation matrix, multiple correlation coef icient, the multivariate normal distribution, partial correlation coef icient, F-tests for multiple and partial correlations.

7. Analysis of Residuals
Checking the assumptions of the regression and analysis of variance models, effects of departures from the assumptions, transformations of the response and predictor variables.

G

Paticipation	5%
Assignments	15%
Midterms	30%
Final Exam	50%

M

R can be accessed via Jupyter, an online platform, at https://sfu.syzygy.ca/. Alternatively, R Studio and R statistical software can be downloaded free of charge from https://www.rstudio.com/ and https://cran.r-project.org/, respectively.

STAT2: Building Models for a World of Data. Author: Ann R. Cannon. Publisher: Freeman
ISBN: 978-1-4641-5047-0

Important dates and deadlines for graduate students are found here: http://www.sfu.ca/dean-gradstudies/current/important_dates/guidelines.html