

SPRING 2019 - STAT 300W D100

STATISTICS COMMUNICATION (3)**Class Number: 3428** **Delivery Method: In Person****COURSE TIMES + LOCATION:**

Mo 2:30 PM - 4:20 PM

BLU 10655, Burnaby

We 2:30 PM - 3:20 PM

SECB 1014, Burnaby

INSTRUCTOR:

Michael Davis

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Office: SC-P9316

PREREQUISITES:

Admission to the major or honours programs in statistics or actuarial science. STAT 350 or 9 units of upper division STAT/ACMA courses and permission of the instructor; prior completion of a lower division W course.

Description

CALENDAR DESCRIPTION:

Guided experiences in written and oral communication of statistical ideas and results with both scientific and lay audiences. Writing.

COURSE DETAILS:

This course exposes students to types of writing related to the field of statistics. These may include technical reports for both statistical and lay audiences, consulting reports, and critiques (e.g. of the use of statistics in the media).

Writing requires an in-depth understanding of the subject matter.

The course will give students the opportunity to receive feedback on their writing from the instructor, possibly a TA, and their classmates. Each student will complete several reports during the semester. The first draft of some reports will be critiqued and returned. For these reports, students are expected to respond to the critiques and submit a final version. One or more reports will include an in-class, oral presentation. Report marks will be based both on writing technique and statistical content. In addition, students will be marked on their contribution to in-class discussions led by the instructor.

It is assumed that you are familiar with the following topics:

Elementary probability theory, including properties of the normal, Poisson, binomial, etc., distributions

Confidence intervals, p-values, hypothesis testing

Linear regression theory

Maximum likelihood estimation

Other standard data analysis tools (diagnostic plots, t-tests, ANOVA methods, etc.)

Grading

