

E 2018 - A 300 D100

STATISTICS COMMUNICATION (3)*Class Number: 3878 Delivery Method: In Person***COURSE TIMES + LOCATION:**

Tu 10:30 AM - 11:20 AM

BLU 10921, Burnaby

Th 9:30 AM - 11:20 AM

WMC 2503, Burnaby

INSTRUCTOR:

Michael Davis

jackd@sfu.ca**PREREQUISITES:**

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

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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 report 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.)

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