FALL 2014 - STAT 300W D100

STATISTICS COMMUNICATION (3)

Delivery Method: In Person

COURSE TIMES + LOCATION:

Mo, We, Fr 9:30 AM – 10:20 AM
AQ 5039, Burnaby

EXAM TIMES + LOCATION:

Dec 10, 2014
8:30 AM – 11:30 AM
Burnaby

INSTRUCTOR:

Michelle Vanchu-Orosco

PREREQUISITES:

Prerequisite: : Admission to the major or honors programs in statistics or actuarial science at SFU. Corequisite: STAT 350.

Description

CALENDAR DESCRIPTION:

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

COURSE DETAILS:

Course is restricted to Statistics Major/Honor Students

Outline:

This course exposes students to some examples 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). A framework called The Statistical Method (MacKay and Oldford, Statistical Science, 2000) may be used as a guideline for report content and for conducting statistical work in general.

Writing requires an in-depth understanding of the subject matter. Therefore, **students are encouraged to take this course in their fourth year.** Completion of STAT 350 is highly recommended.

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 are expected to complete homework and in-class assignments, and will be marked on their contribution to seminar-type 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 and Maximum Likilihoods.

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

The course will involve seminars for three hours per week.

Grading

Assignments	20%
Term Tests	20%
Projects	10%
Oral Presentation	10%
Final Project	40%

NOTES:

All grading is subject to change.

DEPARTMENT UNDERGRADUATE NOTES:

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

Tutor Requests:
Students looking for a Tutor should send an email to stat@sfu.ca with "Tutor Request" in the subject line. Please only include information that you would like forwarded to our tutors mailing list (contains people external to the University). We accept no responsibility for the consequences of any actions taken related to tutors.

REGISTRAR NOTES:

SFU's Academic Integrity web site http://students.sfu.ca/academicintegrity.html is filled with information on what is meant by academic dishonesty, where you can find resources to help with your studies and the consequences of cheating. Check out the site for more information and videos that help explain the issues in plain English.

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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