



Department of Statistical and Actuarial Sciences. University of Western Ontario
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Probability and Statistics II 2017/2018

Statistical Sciences 2858B

Instructor Information

Instructor: Serge Provost, Professor, Ph.D., A.S.A.
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General Course Information

Lecture Hours Monday, Wednesday, Friday 10:30 AM-11:30 AM, 3M Centre, Room 3250
Tutorial Hours Tuesday 3:30 PM-4:30 PM, WSC 55

Prerequisite Requirements

A minimum mark of 60% in Statistical Sciences 2857A/B (or the former Statistical Sciences 2657A/B). Students are advised that they are responsible to ensure that they either have the prerequisites for this course or written special permission from their Dean to enroll in it.

Antirequisites

All other courses or half courses in Introductory Statistics, except Statistical Sciences 1023A/B and 1024A/B.

Course Description

An introduction to the theory of statistics as well as its probabilistic underpinnings. Topics covered include estimation and hypothesis testing, sampling distributions, linear regression, experimental design, the law of large numbers and the central limit theorem.

Course Objectives

This course aims at introducing the mathematical basis of statistical analysis, covering parameter estimation, hypothesis testing and the determination of confidence intervals, among other topics. The successful student will be ready to delve more deeply into the theory of statistical inference as well as more advanced applied techniques.

Course Materials

The recommended textbook is
*A Brief Course in Mathematical Statistics**
by Elliot Tanis and Robert Hogg.
Pearson/Prentice Hall (2008).

*This textbook will be available at the Taylor Library's desk.

Additional material will be posted on the **course website**:

<http://www.stats.uwo.ca/courses/SS2858>

which should be consulted on regular basis for announcements, course notes and updates. This will be the primary means of disseminating information to all.

Methods of Evaluation

The overall course grade will be calculated as follows:

4 assignments worth 20% of the course mark (please note that these assignments may not be marked in their entirety due to limited TA support; however, the complete solutions will be posted on the course website.)

Two term tests worth 15% each to take place in Room 55 WSC during the tutorial hour, that is, from 3:30 to 4:20 PM on Tuesday **February 6** and Tuesday **March 6**:

A Final Exam worth 50% of the course mark.

A non-programmable calculator will be needed for the tests and final exam.

Academic Policies

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to your Dean's office as soon as possible, and contact your instructor immediately. If accommodation is approved by your Dean's office, your instructor will be notified, then it is your responsibility to make alternative arrangements with your instructor. In the event of a missed final exam, a "Recommendation of Special Examination" form must be obtained from the Dean's Office immediately. For further information please see: http://www.stats.uwo.ca/accommodation_medical.pdf . A student requiring academic accommodation due to illness, should use the Student Medical Certificate when visiting an off-campus medical facility. Or, request a Record's Release Form (located in the Dean's Office) for visits to Student Health Services.

The department adopted a policy whereby there will be no make-up exams for missed tests. For those who legitimately miss an exam and provide the required supporting documentation, the standard practice consists in reassigning the weight of this exam to other evaluation components.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at this website: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf .

Please note that unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

In accordance with policy, <http://www.uwo.ca/its/identity/activatenonstudent.html> , the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner. The website for Registrarial Services is <http://www.registrar.uwo.ca> .

The Department has adopted a "Mutual Expectations" policy governing the classroom environment and all work submitted by students. The full text of the policy can be found at http://www.stats.uwo.ca/mutual_expectations.pdf . In summary, the policy was developed under the premise that all interactions between students and faculty should be governed by the principles of courtesy, respect and honesty.

Support Services

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 if you have questions regarding accommodation.

The policy on Accommodation for Students with Disabilities can be found here: www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_disabilities.pdf

The policy on Accommodation for Religious Holidays can be found here: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_religious.pdf