

Course Delivery

- **Lectures**

Time: Mondays, Wednesdays, Fridays 11:30am - 12:30pm

Location: B&GS-1056

- **Tutorials**

Time: Wednesdays 5:30am - 6:30pm

Location: B&GS-1056

- **Important Dates**

{ Classes begin on Jan. 9 and end on Apr. 10.

{ Reading Week: Feb. 20 - 24

Course Information

- **Prerequisite(s)**

A minimum mark of 60% in Statistical Sciences 3657A/B is required.

- **Topics to be Covered in Lectures**

The course will cover the following topics, together with others: point estimation, sufficiency, completeness, consistency, unbiasedness, the Cramer-Rao inequality, the Rao-Blackwell theorem, hypothesis testing (uniformly most powerful tests, likelihood ratio tests).

- **Learning Outcomes**

- **Reference Book**

For extended reading, you may refer to the following books:

- { *Introduction to Probability and Mathematical Statistics* (2nd edition), by Lee J. Bain and Max Englehardt, Duxbury Press.
- { *Introduction to Mathematical Statistics* (8th or previous editions), by R.V. Hogg, J. W. McKean and A.T. Craig. Pearson/Prentice Hall (2019).

Evaluation and Course Work

- **Evaluation Scheme**

17% assignments + 33% tests + 50% final exam

- **Tests**

{ Time

Test 1: 5:30-6:20pm Wednesday Feb. 8
 Test 2: 5:30-6:20pm Wednesday Mar. 8
 Test 3: 5:30-6:20pm Wednesday Mar. 29

{ Location: B&GS-1056

- **Assignments**

{ Due in class (**before the class starts**):

Assignment 1: Wednesday Feb. 1
 Assignment 2: Wednesday Mar. 1
 Assignment 3: Wednesday Mar. 22

{ Late assignments will not be accepted because solutions to assignment questions will be posted.

- **Important Note**

{ To receive a pass on the course, you must achieve
a passing mark (50%) on BOTH the final exam AND the term work.

{ The "term work" is evaluated based on

- * the average score of the **three** assignments and
- * the average score of the **best two** tests

{ Late assignments will **NOT** be accepted.

{ There will be **NO** make-up tests. If a student misses two tests (which I hope you won't!), the student will receive an incomplete (**INC**) in the course grade.

{ The final exam takes place during the examination period, which will be scheduled by the Registrar's Office.

{ The tests and final exam are *closed book*; a double-sided crib sheet (letter size) is allowed for the *final exam* (not for tests). A nonprogrammable calculator is allowed for the tests and final exam. Other devices such as cell phones cannot be used as a calculator.

Disclaimer

The lecture notes and any distributed course materials are intended **ONLY** for your own use to enhance your understanding of the course. Please do **NOT** share with anyone **NOT** registering for this course in 2023 without the instructor's permission.

General Information

- **Student Absences**

If you are unable to meet a course requirement due to illness or other serious circumstances, please follow the procedures below.

For work totalling 10% or more of the final course grade, you must provide valid medical or supporting documentation to the Academic Counselling Office of your Faculty of Registration as soon as possible.

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.

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

A non-programmable calculator is needed in the tests. Other devices such as cell phones cannot be used as a calculator in the tests.

- **Support Services**

Please visit the Science & Basic Medical Sciences Academic Counselling webpage for information on adding/dropping courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters:

<https://www.uwo.ca/sci/counselling/>

Students who are in emotional/mental distress should refer to

Mental Health@Western (<https://uwo.ca/health/>)

for a complete list of options about how to obtain help.

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at

https://www.uwo.ca/health/student_support/survivor_support/get-help.html

To connect with a case manager or set up an appointment, please contact support@uwo.ca.