

3. Course Syllabus, Schedule, Delivery Mode

Course Description

We will cover the following topics among 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

4. Course Materials

The recommended textbook is

*Introduction to Mathematical Statistics**, 8th or previous editions

by R.V. Hogg, J. W. McKean and A.T. Craig.

Pearson/Prentice Hall (2019).

*A copy of this book can be borrowed at the Taylor Library's desk.

*This book can be purchased from the Book Store. An electronic copy is also available.

Additional course material will be posted to OWL: <http://owl.uwo.ca>.

Students are responsible for checking OWL (<http://owl.uwo.ca>) for announcements and updates on a regular basis. This is the primary method by which information will be disseminated to all students in the class.

If students need assistance, they can seek support on the [OWL Help page](#). Alternatively, they can contact the [Western Technology Services Helpdesk](#). They can be reached by phone at 519-661-3800 or ext. 83800.

5. Methods of Evaluation

The overall course grade will be calculated as follows:

**Four assignments: 10%*

**Two midterm tests* scheduled to take place on February 16th and March 16th, 5:30 PM – 6

6. Student Absences

Academic Consideration for Student Absences

Students who experience an extenuating circumstance (illness, injury or other extenuating circumstance) sufficiently significant to temporarily render them unable to meet academic requirements may submit a request for academic consideration through the following routes:

- (i) Submitting a Self-Reported Absence (SRA) form provided that the conditions for submission are met. To be eligible for a Self-Reported Absence:
 - an absence must be no more than 48 hours
 - the assessments must be worth no less than 10% of the total marks available for the course

Absences from Final Examinations

If you miss the Final Exam, please contact the Academic Counselling office of your Faculty of Registration as soon as you are able to do so. They will assess your eligibility to write the Special Examination (the name given by the University to a makeup Final Exam). You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (e.g., more than 2 exams in 23-hour period, more than 3 exams in a 47-hour period).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if granted) normally will be the scheduled date for the final exam the next time this course is offered. The maximum course load for that term will be reduced by the credit of the course(s) for which the final examination has been deferred. See the Academic Calendar for details ([Special Examinations](#)).

7. Accommodation and Accessibility

Accommodation Policies

Students with disabilities work with Accessible Education (formerly SSD), which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The policy on Academic Accommodation for Students with Disabilities can be found at

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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 Accessible Education at (519) 661-2147 if you have any questions regarding accommodations.

Students who are in emotional/mental distress should refer to Mental Health@Western (<http://www.health.uwo.ca/mentalhealth>) for a complete list of options about how to obtain help.

Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.