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THE UNIVERSITY OF WESTERN ONTARIO
LONDON CANADA

School of Health Studies

Health Sciences 3801B
Measurement and Analysis in the Health Sciences

CALENDAR DESCRIPTION

An introduction to measurement and analysis in health sciences research, covering topics such as validity, reliability, standard errors, confidence intervals, tests of means, correlation, and linear regression.

Antirequisite(s): [Biology 2244A/B](#), [Economics 2122A/B](#), [Economics 2222A/B](#), [Geography 2210A/B](#), [MOS 2242A/B](#), [Kinesiology 3032A/B](#), Psychology 2810, Psychology 2820E, [Psychology 2830A/B](#), [Psychology 2850A/B](#), [Psychology 2851A/B](#), Social Work 2207A/B, [Sociology 2205A/B](#), [Statistical Sciences 2035](#), [Statistical Sciences 2141A/B](#), [Statistical Sciences 2143A/B](#), [Statistical Sciences 2244A/B](#), [Statistical Sciences 2858A/B](#), [Statistical Sciences 2037A/B](#). Taken prior to Fall 2010.

Prerequisite(s): [Health Sciences 2801A/B](#)

COURSE INFORMATION

Instructor: Dr. Andrew Johnson
ajohnson@uwo.ca

Lecture Time/Location: Fridays, 9:30am to 11:30a

Office Hours: By appointment and via Zoom (see OWL signup for details)

Course Website: <https://owl.uwo.ca>

TEXTBOOKS

There are no required textbooks for this course. If you wish to have a textbook for the course, I recommend the OpenStax text by Illowsky et al. The PDF of this text is available for free through [the bookstore](#) or you may purchase a professionally bound copy for approximately \$40 through Amazon.com. More information can be found here:

<https://openstax.org/details/introductory-statistics>

CALCULATOR

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MAKEUP EXAM DATES / LOCATIONS

You must have a valid medical or compassionate reason for missing the midterm or the final exam, and you must seek an academic consideration for either of these evaluations through advising within the School of Health Studies. See the end of this outline for information concerning acceptable documentation of illness.

The makeup for the midterm will be held on Friday, March 8th, between 9am and 12pm. The room number for this makeup exam will be posted closer to the time of the makeup.

Retroactive exam accommodation (i.e., for exams that have been written) will not generally be granted. Makeup evaluations for the midterm and final will consist of some combination of multiple choice questions, essay questions, and computational questions. *NOTE: There is no second makeup examination for the midterm in this course. If you*

Academic Offences

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence in the [Academic Calendar \(westerncalendar.uwo.ca\)](#).

Plagiarism: Student work is expected to be original. Plagiarism is a serious academic offence and could lead to a zero on the assignment in question, a zero in this course, or expulsion from the university. You are plagiarizing if you insert a phrase, sentence or paragraph taken directly from another author without acknowledging that the work belongs to him/her. Similarly, you are plagiarizing if you use ideas that belong to someone else. All papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and Turnitin.com ([www.turnitin.com](#)).

Re-submission of Previously Graded Material: Without the explicit written permission of the instructor, you may not submit any academic work for which credit has been obtained previously for which credit is being sought in another course or program of study in the University or elsewhere.

Use of Statistical Pattern Recognition on Multiple Choice Exams: Computer marked multiple choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

Academic Considerations and Absences from Lectures and Assessments

Religious Accommodation: When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request (in writing) any necessary academic considerations at least two weeks prior to the holiday to the academic counsellors in their Home Department. Additional information is provided in the [Western Multicultural Calendar](#).

Academic Accommodation: 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. Students with ongoing accommodation needs within this course are also encouraged to contact [Accessible Education](#) 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 [here](#).

Academic Consideration: Extenuating circumstances that are medical or compassionate in nature. These extenuating circumstances may be acute (short term), or it may be chronic (long term).
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Most forms of academic consideration require documentation, and this documentation is to be submitted to academic counsellors within five (5) business days of their return to academic responsibilities. Any such [Official Student Record Information Privacy Policy](#)

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Once the petition and supporting documents have been received and assessed, appropriate academic considerations shall be determined by academic counseling, Q FRQVXOWDWLRQ ZLWK WK instructor(s). Academic considerations may include extension of deadlines, waiver of attendance requirements for classes/labs/tutorials, arranging Special Exams or Incomplete, or granting late withdrawals without academic penalty. Academic considerations shall be granted only where the documentation indicates that the onset, duration and severity of the illness are such that the s

Online Proctoring

Tests and examinations in this course may be conducted using a remote proctoring service. By taking this course, you are consenting to the use of this software and acknowledge that you will be required to provide personal information (including some biometric data) and the session will be recorded.

Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including

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