

Health Sciences 2801a    Research Methods in Health Sciences  
School of Health Studies, Faculty of Health Sciences

## Preliminary Course Outline

### Course Schedule

Week	Date	Lab Topic	Lecture Topic
1	Sep 7	No Lab	Course Overview
2	Sep 14	No Lab	Numbers, Measures, and Words (Reading A)
3	Sep 21	Exercises Reading A	Scores (Reading B)
4	Sep 28	Exercises Reading B	Internal Consistency (Reading C)
5	Oct 5	Online Quiz covers Readings A & B. No Lab. No Lecture.	
	Oct 12	Fall Reading Week	
6	Oct 19	Quiz Follow-Up	Retest Consistency and Agreement (Reading D)
7	Oct 26	Exercises Readings C & D	Simple Regression (Reading E)
8	Nov 2	Exercises Reading E	Simple Regression (Reading E)
9	Nov 9	Online Quiz covers Readings A to E. No Lab. No Lecture.	
10	Nov 16	Quiz Follow-Up	Repertory Grid (Reading F)
11	Nov 23	Exercises Reading F	Science (Reading G)
12	Nov 30	No Lab	Science (Reading G)
13	Dec 7	No Lab	Question & Answer Exam Preparation

### Detailed List of Course Topics

#### Numbers, Measures, and Words

- number families, distinction between constructs and indicators, multiple indicator instruments, issues of representativeness and relevance, language ambiguity.

#### Scores

- variation (sum of squares, variance, standard deviation), covariation (sum of products, simple correlation), degrees of freedom, standardized scores.

#### Internal Consistency

- unsystematic error, item universe, alpha, standard error of measurement, confidence interval, Spearman-Brown formula.

#### Retest Consistency and Agreement

- systematic error, distinction between consistency and agreement, intraclass correlations, confidence

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## **Other Course Information**

### **Prerequisite Checking**

Unless you have either the requisites for this course or written special permission from your Dean to enrol 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.

### **Use of Electronic and Other Powered Devices**

Lectures and Tutorials. A computer or tablet may be used during lectures and tutorials for scholastic purposes only. Audio or video recording of lectures or tutorials is not permitted without permission of the instructor.

Final Exam. During the final exam, you may use a standard electronic calculator that provides basic and scientific functions. No other electronic or powered devices are permitted during the final exam.

### **Scholastic Offences**

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the website:

[www.uwo.ca/univsec/pdf/academic\\_policies/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf)

### **Accommodation for Illness**

[www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_illness.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf)

The University recognizes that a student's ability to meet his/her academic responsibilities may, on occasion, be impaired by medical illness. Illness may be acute (short term), or it may be chronic (long term), or chronic with acute episodes. The University further recognizes that medical situations are deeply personal and respects the need for privacy and confidentiality.

## Health and Wellness

[www.health.uwo.ca](http://www.health.uwo.ca)

Health and wellness is a critical part of a successful undergraduate experience at Western, and there are many opportunities on campus to engage in healthy living while pursuing your degree. All students receive membership in Western's Campus Recreation Centre as part of their registration fees. In addition, numerous cultural events are offered on campus, including concerts in the Faculty of Music ([www.music.uwo.ca](http://www.music.uwo.ca)) and art exhibits at the McIntosh Gallery ([www.mcintoshgallery.ca](http://www.mcintoshgallery.ca)).

## University Policy on Grades for Undergraduate Students

[www.uwo.ca/univsec/pdf/academic\\_policies/general/grades\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/general/grades_undergrad.pdf)

The following university-wide descriptors of the meaning of letter grades are part of your official transcript:

A+	90-100	One could scarcely expect better from a student at this level
A	80-89	Superior work that is clearly above average
B	70-79	Good work, meeting all requirements and eminently satisfactory
C	60-69	Competent work, meeting requirements
D	50-59	Fair work, minimally acceptable.
F	below 50	Fail

It is expected that the average grade in this course will fall between 70 and 79. In the event that the average grade falls outside this range, a constant may be added (or subtracted) from each student's grade to align it with the policy on grades.

## Code of Student Conduct

[www.uwo.ca/univsec/pdf/board/code.pdf](http://www.uwo.ca/univsec/pdf/board/code.pdf)

Every student is expected to comply with the provisions of the Code of Student Conduct. Sanctions for non-compliance range from a warning or reprimand to expulsion from the University. It is the responsibility of every student to read the Code and familiarize him or herself with its contents.

## English Proficiency for the Assignment of Grades

[www.uwo.ca/univsec/pdf/academic\\_policies/exam/english.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/exam/english.pdf)

Each student granted admission to Western must be proficient in spoken and written English. Students must demonstrate the ability to write clearly and correctly. Work presented in English in any subject at any level, which shows a lack of proficiency in English and is, therefore, unacceptable for academic credit, will either be failed or, at the discretion of the instructor, returned to the student for revision to a literate level. To foster competence in the use of the English language within their own discipline, all instructors will take proficiency in English into account in the assignment of grades.