# THE UNIVERSITY OF WESTERN ONTARIO LONDON CANADA

# **School of Health Studies**

#### Health Sciences 3801b Research Methods and Analysis in the Health Sciences

#### 1.0 CALENDAR DESCRIPTION

An introduction to measurement and asidy in health sciences research, covering topics such asvalidity, reliability, standard errors, confidence intervals, tests of means, correlation, and linear regression. Prerequisites: Health Sciences 2801a/b or equivalent Antirequisites: All other University-level statistics courses at the 2000 el or above

### 2.0 COURSE INFORMATION

Instructor.	Dr. Andrew Johnson
	Elborn College, Room 2531
	<u>ajohnson@uwo.c</u> a
Office Hours	Thursdays, 10:30am to .130pm
Course Website:	https://owluwo.ca

Times and Location of Lectures: Thursdays 12:30pm to 2:30pm

Natural Sciences, Room 1

#### 3.1 TEXTBOOKS

There are no required textbooks for this coursehere appropriate practice question and datawill be posted the web.

#### 3.2 CALCULATOR

You will need a calculator with a Òstats modeÓ for this course. You should choose a calculator that is easy to use, rather than one that has a lot of functions not needed for this course. A calculator sufficient for this bould cost approximately \$15 to \$35. If you currently have a calculator, and are unsure if it is adequate, you may show it to me after a lecture, or during office hours. Bring your calculator to all lectures, labs, and tests. Some calculators are pleted it is a good idea to hang onto the instruction manual until you are sure that you know how to use it.

#### 4.0 COURSE OBJECTIVES

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Exam #1: The first exam for this course will cover course material presented (either in class, or through WebCT) between 2011.01.06 and 2011.02.17 (inclusive) he test will consist solely of multiple hoice questions, and will be closed ok

# 6.0 LECTURE / LAB SCHEDULE

	Lecture Topis
2011.01.06	Course Introduction
2011.01.13	Summarizing Data
2011.01.20	Introduction to Hypothesis Testing
2011.01.27	Single Sample Inference
2011.02.03	Correlation and Regression
2011.02.10	Analysis of Count Data I
2011.02.17	Analysis of Count Data II
2011.03.03	Midterm Examination
2011.03.10	Two Sample Inference I

# 7.2 POLICY REGARDING ILLNESS

The University recognizes that a studentÕs ability to meet his/her academic responsibilities may, on occasion, be impaired by medical illness. Illness may be acute (short teom)t may be chronic (long term), or chromit acute episodes. The University further recognizes that medical situations are deeply persondalespects the need for privacy and confidentiality in these matters. However, in order to ensure fairnelscoarsistency for all students, academic accommodation shall be granted only in those cases where there is documentation indicating that the student was seriously affected by illness and could not reasonably be expected to meet his/her academic reitipesnSibdiumentation shall be submitted, as soon as possible,he appropriate academic courosel(the Office of the Dean of the studentÕs Faculty of registration/home Faculty) together with a request for relief specifying the nature of the accommodatios. Documents submitted in this fashiowill be retained inyourfile, and will be held in confidence in accordance with the/ersityÕs Official Student Record Information Privacy Polifyttp://www.uwo.ca/univsec/handbook/general/privacy.pdf].

Once the petition and supporting documents have been received and assessed, appropriate academic accommodation shal be determined by be DeanÕs Office (Academic Counsellor) in consultation instructor Academic accommodation may