Health Sciences 3801b
Measurement and Analysis in Health Sciences
School of Health Studies, Western University

January to April 2015

1.   Course Information

!is course is an introduction to statistical analysis in health sciences research. Altho
are given and calculations are performed, the principal orientation of the course is c
rather than mathematical. Your grade in this course is based on three quizzes and a

Classes Ð 2 hours
Fridays, 9:30 to 11:30, NS 1

Prerequisite Checking
You should consult the Western Academic Calendar (www.westerncalendar.uwo.ca)
requisites of this course. Unless you have either the requisites for this course or wri
permission from your Dean to enrol in it, you may be removed from this course and
deleted from your record. !is decision may not be appealed. You will receive no adju
your fees in the event that you are dropped from a course for failing to have the nec
prerequisites.

2.   Inst3.   Course Materials

!ere is no textbook to be purchased for this course. I have prepared readings to
accompany the classes, and these readings are posted in OWL. Each reading provi
introduction to the topic and includes a series of cases that we will work through in

4.   Evaluation
Your grade in this course is based on three online quizzes and a "nal exam. Each q
percent of your course grade, and the "nal exam is worth 46 percent of your course
quizzes and exam are composed of calculation questions and thought questions. !e
questions test your ability to perform the numerical procedures presented in the rea
thought questions test your understanding of the concepts and general principles pr
readings.

!e quizzes are one-hour in length, and they are administered online using OW
quiz will be open for a two-day period. You can login to OWL at any time during the
period to complete the quiz. !e schedule of quizzes is listed in the course schedule section
(below). !e "rst quiz covers readings 1 and 2, the second quiz covers readings 1 to 3
third quiz covers readings 1 to 4. !e "nal exam covers readings 1 to 5, and it is sche
the o$cial examination period. !e quizzes are open-book in the sense that you have access
notes and the readings while completing the quiz. I expect you to complete the quizzes on your
own, without collaboration with other students.

If you are unable to complete a quiz during the scheduled time as a result of r
or non-medical reasons, you must consult an academic counsellor to obtain academ
accommodation. Once academic accommodation is obtained, the percentage assoc
missed quiz will be evenly distributed among the other quizzes and the "nal exam. F
you were unable to complete the "rst quiz because of illness, the second quiz would
percent (i.e., 18% + 6%), the third quiz would be worth 24 percent (i.e., 18% + 6%),
exam would be worth 52 percent (i.e., 46% + 6%).

If you miss the "nal exam due to medical illness or non-medical reasons, you i
an academic counsellor to obtain academic accommodation to write a make-up exa

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5.   Student Code of Conduct
!e purpose of the Code of Student Conduct is to de"ne the general standard of cond
expected of students registered at !e University of Western Ontario, provide example
behaviour that constitutes a breach of this standard of conduct, provide examples o
may be imposed, and set out the disciplinary procedures that the University will follo
information, visit h

Documentation heading of the following website: h#ps://studentservices.uwo.ca/secu
index.cfm

      Documentation is required for non-medical absences where the course work m
more than 10% of the overall grade. Students may contact their Faculty Academic C
O$ce for what documentation is needed.

      Whenever possible, students who require academic accommodation should pr
noti"cation and documentation in advance of due dates, examinations, etc. Students
up with their professors and their Academic Counselling o$ce in a timely manner.
Documentation for any request for accommodation shall be submi#ed, as soon as po
appropriate Academic Counselling O$ce of the studentÕs Faculty of registration & He
Studiesstudents should contact the School of Health Studies main o$ce (222 HSB).

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8.   Scholastic O%ences

Scholastic o%ences are taken seriously and students are directed to read the appro
speci"cally, the de"nition of what constitutes a Scholastic O%ence, at the following W
h#p://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf .

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9.   Support Services

Support services are o%ered on campus through the Student Development Centre, :
Health Services, the O$ce of the Registrar, and the O$ce of the Ombudsperson.

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10.   Course Schedule

Week	Date		Topic	Online Quizzes (Open)
1	Jan	9	Course Overview	
2	Jan	16	Scores (Reading 1)	
3	Jan	23	Simple Regression (Reading 2)	
4	Jan	30	Simple Regression (Reading 2)	
5	Feb	6	Uncertainty (Reading 3)	Quiz 1 (Feb 4 to Feb 5)
6	Feb	13	Uncertainty (Reading 3)	
	Feb	20	No Class & Reading Week	
7	Feb	27	Multiple Regression (Reading 4)	Quiz 2 (Feb 25 to Feb 26)
8	Mar	6	Multiple Regression (Reading 4)	
9	Mar	13	Analysis of Variance (Reading 5)	Quiz 3 (Mar 11 to Mar 12)
10	Mar	20	Analysis of Variance (Reading 5)	
11	Mar	27	Analysis of Variance (Reading 5)	
12	Apr	3	No Class	

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