

# Epidemiology 2200B: Introduction to Epidemiology

Course Outline (Revised)

Winter 2014

## 1 instructors

Course coordinator:	Prof. John Koval	jkoval@biostats.uwo.ca
Lecturer:	Prof. Neil Klar	
T.A.:	Lynn Zhu	
	Kyla Naylor	knaylor2@uwo.ca

## 2 Times and locations

Tuesday: 3:30-4:20	Room 103 Kresge Building	Lecture
Tuesday: 4:30-5:20	Room 103 Kresge Building	Tutorial
Thursday: 4:30-5:20	Room 203 Kresge Building	Lecture

## 3 Required Textbooks:

- Gordis, Leon (2013), *Epidemiology, 5th Edition*, Philadelphia: Elsevier Saunders
- Custom Course Material (available at the U.W.O. Bookstore)

Date	Topics and Readings(Gordis)	Tutorials and Assignments
Jan 9 Jan 14	Introduction to Epidemiology; Causation; Disease Transmission ( <i>Chapters 1 &amp; 2</i> ) <b>Assignment 1 posted on OWL</b>	Tutorial 1
Jan 16 Jan 21	Measuring Occurrence of Disease; Natural History of Disease ( <i>Chapters 3, 4 &amp; part 6</i> )	Tutorial time used for lecture
Jan 23 Jan 28	Cohort, Case-Control, Cross-Sectional Studies <b>Assignment 2 posted on OWL</b> ( <i>Chapters 9, 10 &amp; 13</i> )	<b>Assignment 1 DUE</b> Tutorial 2
Jan 30	Estimating Risk ( <i>Chapter 11</i> )	
Feb 4 Feb 6	Estimating the Potential for Prevention ( <i>Chapter 12</i> ) Review	<b>Assignment 2 DUE</b>
Feb 11	<b>Mid-Term Exam (In Class)</b>	
Feb 17	<i>CONFERENCE WEEK</i>	
Feb 25 Feb 27	Bias, Confounding and Interaction <b>Assignment 3 posted on OWL</b> ( <i>Chapter 15</i> )	Tutorial 3
Mar 4 Mar 6	From Association to Causation ( <i>Chapter 14</i> )	<b>Assignment 3 DUE</b>
Mar 11 Mar 13	Assessing the Validity and Reliability of <b>Assignment 4 posted on OWL</b> Diagnostic and Screening Tests ( <i>Chapters 5 &amp; 18</i> )	Tutorial 4
Mar 18 Mar 20	Randomized Trials ( <i>Chapters 7 &amp; 8</i> )	<b>Assignment 4 DUE</b>
Mar 25 Mar 27	Meta analyses and systematic reviews <b>Assignment 5 posted on OWL</b>	Tutorial 5
Apr 1 Apr 3	to be announced	<b>Assignment 5 DUE</b>
Apr 8	Course Review/Snow Day Makeup	

Notes will be posted on OWL before each lecture.

## 4 Evaluation:

- **5 Assignments** (each worth 5%) 25%
  - 4% for submitted assignment
  - 1% for lab attendance
- **Mid-term exam\*** (multiple choice/short answer) 35%
- **Final exam\*** (multiple choice/short answer) 40%

Bring a non-programmable calculator. You are allowed one sheet of formulae (not definitions) which must be handed in with your exam.

\*Final is cumulative, weighted slightly more towards 2<sup>nd</sup> half of course

## 5 Tutorials:

Please bring your course text & custom course material to each tutorial.

Tutorial	Date	Relevant Readings (Textbook, Custom Course Material)	Topics
0	Jan 7		Introduction
1	Jan 14	Chapter 3 & White et al. (1999) <b>Bring assignment 1</b>	Prevalence, 95% CIs, Sample Size, Precision
2	Jan 28	Chapter 11 & Tinetti et al. (1988) <b>Bring assignment 2</b>	Odds Ratios, Risk Ratios, 95% CIs
3	Feb 25	Yun & Choi (1990) and Yun & Choi (1998) <b>Bring assignment 3</b>	Stratified Analysis, Test for Trend
4	Mar 11	Chapter 15 & Bell et al. (2001) <b>Bring assignment 4</b>	Confounding, Interaction
5	Mar 25	Chapter 5 <b>Bring assignment 5</b>	Sensitivity, Specificity, Likelihood Ratios

## 6 Assignments:

- All assignments will be posted on OWL:  
<https://owl.uwo.ca/portal>
- Assignments are due at the **BEGINNING** of class on the date specified
- 10% penalty if handed in by **4:00pm on the day after the specified date** to a staff member in the main office, Department of Epidemiology & Biostatistics, Room K201, Kresge Building.
- 20% penalty if handed in by **4:00pm on the second day after the specified date** (follow the above procedure).
- Assignments will receive a mark of zero after 4:00 pm on the second day after the due date

### PLEASE READ THE FOLLOWING *IMPORTANT POLICIES*:

**ACADEMIC DISHONESTY:** *The submission of a fraudulent assignment is a Scholastic Offence as outlined in Senate Regulations in the Western Academic Calendar. The submitted assignment must be the student's independent work (you must complete the assignment by yourself in your own words). This does not preclude discussions for clarification of problems with the professor, teaching assistant, or fellow classmates. If in doubt, please ask.*

**MISSED EXAMINATIONS:** *Senate policies must be followed before arrangements for make-up examinations will be considered.*

**APPEALED GRADES:** *All assignments and tests are evaluated against model answers. Students should approach their TA for better understanding of a concept or if they note arithmetic errors. Students 'fishing' for more marks will have the entire assignment or test re-graded.*

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