

PRINCIPLES OF EPIDEMIOLOGY

EPI 100, Summer Session A, 2011, June 21-July 28

Option One: T, W, Th, 6:00-8:30 pm, Rm: 13-105A (Health Sciences, UCLA)

Option Two: Internet-based, Th, July 28, 2011 Final Examination (see below)

Service of Teaching Assistant for Option One students: T, W, Th, 5:00 - 6:00 pm, Rm. 13-105A (UCLA)

Date	Time	Session		Assignment
6/21	6:00 pm	Lect 1	Introduction to course	Ch 1, pp 1-17
	7:00 pm	Lect 2	History of epidemiology	Ch 1, pp 1-17 (cont)
6/22	6:00 pm	Lect 3	Transmission of infectious diseases	Ch 2, pp 19-32, 35-36
6/23	6:00 pm	--	Hot headlines	--
	6:30 pm	Lect 4	Measuring occurrence of disease (1)	Ch 3, pp 37-57
6/28	7:45 pm	Lect 5a	Measuring occurrence of disease (2) - A	Ch 4, pp 59-74
	6:00 pm	Quiz 1 [#]	Five questions (multiple choice)	Chapters 1-3
	6:30 pm	Lect 5b	Measuring occurrence of disease (2) - B	Ch 4, pp 59-74 (cont)
	8:00 pm	Lect 6a	Standardization of rates and ratios - A	Ch 4, pp. 74-84
6/29	6:00 pm	<i>Disc 1</i>	<i>Discussion of Quiz 1</i>	--
	6:30 pm	Lect 6b	Standardization of rates and ratios - B	Ch 4, pp. 74-84 (cont)
	7:30 pm	Lect 7a	Measurement and errors of measurement (1) - A	Ch. 5, 85-86, 101-106
6/30	6:00 pm	--	Hot headlines	--
	7:30 pm	Lect 7b	Measurement and errors of measurement (1) - B	Ch. 5, 86-101, 106-108
	8:10 pm	Lect 8a	Measurement and errors of measurement (2) - A	Ch. 5, 86-101, 106-108 (cont)
7/5	6:00 pm	Quiz 2 [#]	Five questions (multiple choice, prob. or T/F)	Chapters 4-5
	6:30 pm	Lect 8b	Measurement and errors of measurement (2) - B	Ch. 5, 86-101, 106-108 (cont)
7/6	6:00 pm	<i>Disc 2</i>	<i>Discussion of Quiz 2</i>	--
	6:30 pm	Lect 8c	Measurement and errors of measurement (2) - C	Ch. 5, 86-101, 106-108 (cont)
	7:30 pm	Lect. 9a	Natural history of disease - A	Ch. 6, 109-130
7/7	6:00 pm	Lect. 9b	Natural history of disease - B	Ch. 6, 109-130 (cont)
	7:00 pm	Lect 10a	Study designs (experiments) - A	Ch 7, pp 131-146
7/12	6:00 pm	Quiz 3 [#]	Five questions (multiple choice, prob. or T/F)	Chapters 6-7
	6:30 pm	Lect 10b	Study designs (experiments) - B	Ch 7, pp 131-146 (cont)

Date	Time	Session		Assignment
	7:00 pm	Lect 11	Further issues with randomized trials (1)	Ch 8, pp 147-153
	8:00 pm	Lect 12a	Further issues with randomized trials (2) - A	Ch 8, pp 153-164
7/13	6:00 pm	<i>Disc 3</i>	<i>Discussion of Quiz 3</i>	--
	6:30 pm	Lect 12b	Further issues with randomized trials (2) - B	Ch 8, pp 153-164 (cont)
	7:00 pm	Lect 13a	Study designs (cohort)	Ch 9, pp 165-176
7/14	6:00 pm	Lect 13b	Study designs (cohort)	Ch 9, pp 165-176 (cont)
	6:15 pm	Lect 14	Study designs (cross-sectional)	Ch 10, pp. 195-198
	7:45 pm	Lect 15a	Study designs (case-control) - A	Ch 10, pp. 177-195, 198-199
7/19	6:00 pm	Quiz 4[#]	Five questions (multiple choice, prob. or T/F)	Chapters 8-10
	6:30 pm	Lect 15b	Study designs (case-control) - B	Ch 10, pp. 177-195, 198-199 (cont)
	7:30 pm	Lect 16a	Measures of causal association (1) - A	Ch 11, pp 201-213
7/20	6:00 pm	<i>Disc 4</i>	<i>Discussion of Quiz 4</i>	--
	6:30 pm	Lect 16b	Measures of causal association (1) - B	Ch 11, pp 201-213 (cont)
	7:00 pm	Lect 17	Measures of causal association (2)	Ch 11, p. 214
	8:00 pm	Lect 18a	Measures of causal association (3) - A	Ch 12, pp 215-222
7/21	6:00 pm	Lect 18b	Measures of causal association (3) - B	Ch 12, pp 215-222 (cont)
	7:00 pm	Lect 19	Criteria for assessing causation	Ch. 13-14, pp. 223-246
7/26	6:00 pm	--	Evaluation of instructor and TA	
	6:15 pm	Quiz 5[#]	Five questions (multiple choice, prob. or T/F)	Chapters 11-14
	6:45 pm	Lect 20	Confounding	Ch 15, pp 247-263
7/27	6:00 pm	<i>Disc 5</i>	<i>Discussion of Quiz 5</i>	--
	6:30 pm	Lect 21	Investigating an acute outbreak	Ch 2, pp 32-35, Ch. 3, pp. 41-42
7/28	6:00 pm	Exam	Comprehensive Final Examination (13-105A)	Ch. 1-15

Quizzes only for Option One students

The course features two options that provide flexibility for students, depending on learning preferences and proximity to UCLA. **Option one** is the more traditional educational model and offers in-class lectures by Professor Frerichs, in-class quizzes to stimulate continuing progress, and individualized assistance by Dr. Frerichs and the teaching assistant (TA – Douglas Morier). **Option two** is the more flexible model and offers internet lectures (all of which will have sound) and very limited email communication (i.e., procedural matters only) with Dr. Frerichs and the TA. Attendance in Rm. 13-105A at UCLA for the classes is voluntary, but for the final examination is mandatory for both Option 1 and Option 2 students. If the Final Examination is missed, there will be an in-person make-up examination at UCLA, but not offered until Saturday, December 3 (likely) or Saturday, December 10 (perhaps), 2011 (i.e., a “one-time,” option-specific make-up). Taking the make-up Final

Examination is not recommended as a strategy for those wanting more study time; based on past experience, students seem to struggle much more (i.e., get lower grades) than if taking the examination when the material is fresh. All quizzes are returned to the students. The Final Examinations are machine graded, and will remain with Dr. Frerichs (i.e., not an educational component of the course; the sole purpose is for evaluation by the instructor).

GRADING:

OPTION ONE (in-class with internet review)

Four quizzes on Gordis text (lowest of five quizzes is removed)	20% of grade
Final examination on text and lectures (July 28, 2011; 6:00 - 8:30 pm)	80% of grade

OPTION TWO (internet only)

Final examination on text and lectures (July 28, 2011; 6:00 - 9:00 pm)	100% of grade
--	---------------

COURSE WEBSITE:

<http://www.ph.ucla.edu/epi/epi10011s.html>

INSTRUCTOR:

Ralph R. Frerichs, D.V.M., Dr.P.H.
Professor Emeritus of Epidemiology
Email: frerichs@ucla.edu
Website: <http://www.ph.ucla.edu/epi/faculty/frerichs.html>

TEACHING ASSISTANT:

Douglas Morier, MPH, PhD (candidate)
Doctoral Student in Epidemiology
Email: dougmorier@gmail.com

REQUIRED TEXT:

Gordis, L. Epidemiology. 4th Ed., Elsevier Saunders, Philadelphia, 2008.

RECOMMENDED TEXT:

Posta, M. (Ed): A Dictionary of Epidemiology, 5th Ed., Oxford University Press, New York, 2008.