

Lincoln University
Department of Health Science
Course Syllabus

COURSE TITLE:	Epidemiology	COURSE NUMBER:	HSC 411
CREDIT HOURS:	3	PREREQUISITE (S):	HSC 207, MAT 114 or SOC 306
TERM:		CO-REQUISITE (S):	None
COURSE METHOD:	Lecture	MEETING DAY AND TIME:	
INSTRUCTOR:		CLASSROOM LOCATION:	
OFFICE LOCATION:		E-MAIL:	
OFFICE HOURS:		PHONE EXTENSION:	

COURSE DESCRIPTION: Epidemiology is the study of the distribution and determinants of health and disease in human populations and the application of methods to improve disease outcomes. As such, epidemiology is the basic science of public health. This course introduces students to the basic principles, concepts, methods, and measures used in epidemiology. It also briefly discusses policy implications of epidemiologic research.

REQUIRED TEXT: Gordis L. *Epidemiology*. 5th ed. Elsevier Saunders; 2014:262.

REQUIRED MATERIALS: Calculator

ASSESSMENT CRITERIA & ALIGNMENT

CSLO	HS PROGRAM PSLO	ILO	DIRECT/INDIRECT ASSESSMENT TOOL
1	3, 7, 9	1	Discussion, Assignments, Tests
2	3, 7, 9	5, 7	Discussion, Assignments, Tests
3	3, 9	7	Assignments, Tests
4	3, 7, 9	5	Discussion, Assignments, Tests
5	7, 9	5, 7	Discussion, Assignments, Tests
6	9	7	Assignments, Tests
7	3, 7, 9	7	Discussion, Assignments, Tests
8	3, 7, 9	1, 5	Discussion, Assignments, Tests

COURSE STUDENT LEARNING OUTCOMES (CSLO):

Upon successful completion of this course the student will:

CSLO #1: Apply the basic terminology and definitions of epidemiology

CSLO #2: Identify key sources of epidemiologic data

CSLO #3: Calculate basic epidemiology measures

CSLO #4: Apply mechanisms of surveillance and screening

CSLO #5: Describe elements of study design

CSLO #6: Define and apply risk estimation, causation, bias and confounding

CSLO #7: Draw appropriate inferences from epidemiologic data

CSLO #8: Explain the importance of epidemiology for informing scientific, ethical, economic, and political discussion of health issues

PROGRAM STUDENT LEARNING OUTCOMES (PSLO):

1. PSLO #3 – Assess health status
2. PSLO #7 – Analyze and evaluate effectiveness of health programs
3. PSLO #9 – Apply research methods to address health issues

INSTITUTIONAL LEARNING OUTCOMES (ILO):

1. ILO #1 – Effective communication
2. ILO #3 – Diversity awareness and cultural awareness
3. ILO #4 – Social responsibility and civic engagement
4. ILO #5 – Critical thinking
5. ILO #8 – Integrative and lifelong learning

CALCULATION OF FINAL GRADES:

Note: The instructor reserves the right to modify, add, or remove items as presented below. Any changes will be discussed with the class

ITEM	Percentage
Weekly tests	80%
Final presentation	20%

GRADING SCALE:

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	F
GPA	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.0
Points											
%	100-93	92.9-90	89.9-88	87.9-82	81.9-80	79.9-78	77.9-72	71.9-70	69.9-67	66.9-60.1	60 and under

SCHEDULE OF LEARNING TOPICS COVERED

•SCHEDULE MAY BE SUBJECT TO CHANGE•	
Week 01:	Chapter 1: Introduction
Week 02:	Chapter 1: Introduction
Week 03:	Chapter 2: The dynamics of disease transmission
Week 04:	Chapter 3: Disease surveillance and measures of morbidity
Week 05:	Chapter 4: Mortality and other measures of disease impact
Week 06:	Chapter 5: Assessing the validity and reliability of diagnostic and screening tests
Week 07:	Chapter 7: Randomized trials

Week 08:	Chapter 9: Cohort studies
Week 09:	Chapter 10: Case-control and other study designs
Week 10:	Chapter 13: Comparing cohort and case-control studies Chapter 11: Estimating risk: is there an association?
Week 11:	Chapter 12: More on risk: estimating the potential for prevention Chapter 14: From association to causation
Week 12:	Chapter 15: Bias, confounding, and interaction
Week 13:	Chapter 16: Identifying the roles of genetic and environmental factors in disease causation Chapter 19: Epidemiology and public policy
Week 14:	Chapter 17: Using epidemiology to evaluate health services Chapter 18: The epidemiologic approach to evaluating screening programs
Week 15	Final presentation

UNIVERSITY ATTENDANCE POLICY:

Lincoln University uses the class method of teaching, which assumes that each student has something to contribute and something to gain by attending class. It further assumes that there is much more instruction absorbed in the classroom than can be tested on examinations. Therefore, students are expected to attend all regularly scheduled class meetings and should exhibit good faith in this regard.

For the control of absences, the faculty adopted the following regulations:

1. Four absences may result in an automatic failure in the course.
2. Three tardy arrivals may be counted as one absence.
3. Absences will be counted starting with whatever day is specified by the instructor but not later than the deadline for adding or dropping courses. Students are responsible for all missed work.
4. In case of illness, death in the family, or other extenuating circumstances, the student must present documented evidence of inability to attend classes to the Dean of Students. However, in such cases the student is responsible for all work missed during those absences.
5. Departments offering courses with less than full-course credit will develop and submit to the Dean of Students a class attendance policy in keeping with the above.
6. Students representing the university in athletic events or other university- sanctioned activities will be excused from class(es) with the responsibility of making up all work and examinations. Instructors will receive written notification from the university office sponsoring said activity prior to the event.

More information concerning the Academic Integrity Statement and the Attendance Policy may be found in the current Academic Catalog found on the Registrar's webpage:

<http://www.lincoln.edu/departments/registrar>

Note: Please partake of personal business before or after class, and **NOT** during class time.

UNIVERSITY ACADEMIC INTEGRITY STATEMENT:

Students are responsible for proper conduct and integrity in all of their scholastic work. They must follow a professor's instructions when completing tests, homework, and laboratory reports, and must ask for clarification if the instructions are not clear. In general, students should not give or receive aid when taking exams, or exceed the time limitations specified by the professor. In seeking the truth, in learning to think critically, and in preparing for a life of constructive service, honesty is imperative. Honesty in the classroom and in the preparation of papers is therefore expected of all students. Each student has the responsibility to submit work that is uniquely his or her own. All of this work must be done in accordance with established principles of academic integrity.

Plagiarism:

The work you submit should be your own words. When you use outside sources (i.e., an article) to obtain information for your presentations or reports, you must give credit to that person whether you quote them directly or paraphrase their ideas. If you use another person's words or ideas without giving proper credit, this is considered plagiarism. Plagiarism is the unacknowledged use of another person's ideas, words, or assistance. The university has strict guidelines and consequences for academic honesty.

STUDENTS WITH DISABILITIES STATEMENT:

Lincoln University is committed to non-discrimination of students with disabilities and therefore ensures that they have equal access to higher education, programs, activities, and services in order to achieve full participation and integration into the University. In keeping with the philosophies of the mission and vision of the University, the Office of Student Support Services, through the Services for Students with Disabilities (SSD) Program, provides an array of support services and reasonable accommodations for students with special needs and/or disabilities as defined by Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. The Services for Students with Disabilities Program seeks to promote awareness and a campus environment in which accommodating students with special needs and/or disabilities is natural extension of the University's goal.

Any student with a documented disability should contact the Office of Equity and Inclusion:

<http://www.lincoln.edu/departments/office-institutional-equity/ada-accommodation/services-students-disabilites-ssd>

TITLE IX STATEMENT:

The following person has been designated to handle inquiries regarding the non-discrimination policies: Gerard Garlic, Title IX Coordinator/Director of the Health and Wellness Center, room 126B, Lincoln University, 1570 Baltimore Pike, Lincoln University, PA 19352 (p) 484-746-0000 or Office of Civil Rights, U.S. Department of Education, The Wanamaker Building, 100 Penn Square East, Suite 515, Philadelphia, PA 19107-3323, phone 215-656-8541, fax 215-656-8605, email: ocr.philadelphia@ed.gov

POLICY ON ELECTRONIC DEVICES IN CLASSROOM:

Laptops and tablets may be used to take notes if preferred. Cellphones and recorders can also be used. However, no headphones, MP3 players, or cameras are to be used in class. If not in use for note-taking, students must keep cellphones or other devices turned off or in silent mode during

class time. If students are texting or using their cell phones for non-class purposes during class time, they will be asked to leave the class.

Syllabus Addendum:

Courtesy and the learning environment:

All class members are expected to be attentive to speakers and discussants and extend courtesy and respect to others, even if their values, opinions and attitudes differ from yours.

While all of us come to this course with various experiences, skill sets and values, it is important that we respect diverse opinions and perspectives. The class is designed as a co-learning environment and one where class members are encouraged to try new skills and take risks. Your contribution as a “teacher and learner” in the class will enhance the learning for all class members.

Assignments:

Several assignments (out-of-class) will be given throughout the semester. Students are expected to have completed assignments on dates specified by the instructor. A major purpose of the assignments is to help students become better critical thinkers.

- Assignments are due on the date indicated. **Late assignments are NOT ACCEPTED**

Readings:

Students are expected to have read each chapter before class. This is an interactive class, hence, students must come to class prepared and familiar with the information.

Additional readings pertaining to case studies and topics not covered in main text will be delivered electronically. For some class topics, extra readings will be provided for learning more about specific areas. In general, you are responsible for reading and understanding the material and you may be tested on your knowledge of them.

Tests:

Weekly tests will be given to enhance the learning process.

Missed tests WILL NOT be made up (i.e., zero grade). It is the responsibility of the student to make an appointment with the instructor to take a test within one week in extenuating circumstances (with proper documentation and prior notice).