



Philadelphia University
Faculty of Business
Department of Hospital Management

Course syllabus

Course Title: Epidemiology	Course No.: 0380247
Course Level: 3	Course prerequisite: -
Lecture Time:	Credit hours: 3 C.H.

Academic Staff Specifics

Name	Office No.	E-mail Address
Dr. Naser Saif, PhD, Associate Professor	32410	Philadelphia.hospital@ymail.com
Office Hours	Contacting the instructor	
Tuesdays and Thursdays: 9-12 Am, or by appointment	By Email, try not to call my phone unless you have an emergency	

Course module description:

This course introduces the basic principles and methods of epidemiology, with an emphasis on critical thinking, analytic skills, and application to clinical practice and research. Topics include outcome measures, methods of adjustment, surveillance, quantitative study designs, and sources of data. Designed for those with a clinical background, the course will provide tools for critically evaluating the literature and skills to practice evidence-based medicine.

Course module objectives:

Upon successful completion of this course, the student will be able to:

Course/ module components:

To become familiar with the epidemiologic terminology, outcome measures, and study designs; to appreciate the application of epidemiology to subfields (e.g., infectious diseases, reproductive health, genetics), and to apply epidemiologic methods to current public health issues

Required text

Gordis L. Epidemiology, 4th Ed. 2008. Philadelphia, PA: Saunders-Elsevier. ISBN: .978-1-4160-4002-6

Teaching methods

Lectures, discussion groups, tutorials, problem solving, debates, etc.

Learning outcomes**Knowledge and understanding***Competency*

1. Review the history and philosophy Epidemiology.
2. Identify and explain the core functions Epidemiology.
3. Articulate the differences in Epidemiology priorities in various regions of the world

Business Skills*Competency*

1. Review the history and philosophy of public health.
2. Identify and explain the core functions of public health.
3. Articulate the differences in public health priorities in various regions of the world

Communication skills (personal and academic).*Competency*

1. Apply abstract reasoning and critical thinking skills to communicate Epidemiology research and practice to public and professional audiences.
2. Demonstrate effective written communication skills
3. Demonstrate effective public speaking skills during classroom discussions and presentations

Practical and subject specific skills (Transferable Skills).*Competency*

1. Explore the fundamental concepts and features of a Epidemiology-related project.
2. Generate research questions, analyze and present data, and interpret and discuss findings.
3. Exhibit critical thinking and analytical abilities, including the capacities to engage in inductive and deductive thinking, quantitative reason, and to construct sound arguments

Assessment instruments

- a. Short reports and/ or presentations, and/ or Short research projects
- b. Quizzes.
- c. Homework
- d. Final examination: 50 marks

<u>Allocation of Marks</u>	
Assessment Instruments	Mark
First examination	20
Second examination	20
Final examination: 50 marks	40
Reports, research projects, quizzes, homework, Projects	20
Total	100

Documentation and academic honesty

Documentation style (with illustrative examples)

APA (American Psychological Association)

Protection by copyright

Avoiding plagiarism.

Course/module academic calendar

week	Basic and support material to be covered	Homework/reports and their due dates
(1)	Measuring Disease Occurrence	
(2)	Surveillance	
(3)	Infectious Disease Epidemiology	Pre-lecture Quizzes
(4)	Direct & Indirect Standardization	
(5)	Data Sources & Secondary Analyses	
(6)	Hypothesis Testing & Significance	
(7)	Bias, Confounding, & Effect Modification	
(8)	Causation & Risk	Pre-lecture Quizzes
(9)	Sampling Strategies & Descriptive Studies (Ecological, Cross Sectional, and Qualitative	
(10)	Cohort Studies	
(11)	Intervention Studies	
(12)	Screening	
(13)	Environmental Epi.	Student Presentations
(14)	Student Presentations	
(15)	Student Presentations	
(16)		

Expected workload:

On average students need to spend 2 hours of study and preparation for each 50-minute lecture/tutorial.

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.

Module references

Books

1. Medical Epidemiology, 4th edition; Greenberg RS, Daniels SR, Flanders WD, Eley JW, Boring JR. Lange Medical Books/McGraw-Hill, New York, NY: 2005
2. Veterinary Epidemiology: Principles and Methods: Martin SW, Meek AH, Willeberg P. Iowa State University Press, Ames, IW: 1987
3. Veterinary Epidemiological Research, 2nd edition: Dohoo IR, Martin SW, Stryhn H. VER Inc., Charlottetown, PEI: 2009

Journals

1. American Journal of Epidemiology | Oxford Academic - Oxford Journals
2. International Journal of Epidemiology
3. Epidemiology & Infection | Cambridge Core
4. Epidemiology and Psychiatric Sciences

Websites

1. Basic Epidemiology and Statistics, <https://ki.se/en/selma/syllabus/4FH053>
2. Introduction to Epidemiology, <https://www.athabasca.ca/syllabi/hadm/hadm379.php>
3. Introduction to Applied Epidemiology and Biostatistics, <https://iu.instructure.com/courses/1540266/assignments/syllabus>

Your ideas, evaluations, etc.

You are encouraged to take advantage of office hours for help with coursework or anything else connected with the course and your progress.

Code of conduct in the classroom

- 1 .No telephone equipment is allowed in the classroom.
- 2 .Food and drinks are not allowed in the classroom.
3. Commitment to working hours