

Course Syllabus
Epidemiology II (CHS 335)
1st semester 1438-1439 H

Vision, mission and goals of health education program

Vision:

Leadership and excellence in health education and promotion

Mission:

To contribute to promote community health and secure better quality of life through qualifying globally competitive cadres specialized in health education and promotion; who are characterized by creative thinking, innovation and self-confidence, armed with values and ethics needed to practice the profession within a multidisciplinary team, and competent in planning, implementation and evaluation of health education programs and campaigns, mobilizing community participation, and conducting distinguished scientific research”.

Goals:

1. To prepare pioneers in the fields of health education and promotion, including patients/families education, school health education, community-based health education, occupational and environmental education.
2. To encourage the practice of health education within the framework of global standards and professional ethics
3. To improve students’ research skills in various areas of health education and encourage them to keep up to date with developments in their academic or professional field
4. To advocate and create awareness of health issues and to instill health values among the community with collaboration with the relevant sectors in this concern.
5. To meet the increasing need in the labor market and the requirements of society from the specialties of health education & promotion.

Course Syllabus

Program in which the course is offered:	Health education program, Bachelor degree
Credit hours	3 theoretical hours
total contact hours per semester	45hours
Level at which this course is offered:	6 th level
Course prerequisites:	Epidemiology I (CHS 334)
Time:	Wednesday; 10:00 A.M. - 12.50 P.M.
Location:	Class NO 21, College of Applied Medical Sciences
College member responsible for the course	Dr. Mohammed Fawzi, Associate Professor
Contact information:	
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Office hours:	Tuesday: 10 A M to 12 At Noon Thursday: 10 A M to 12 At Noon

Course Description

The purpose of this course is to present an overview of disease control programs being conducted by governmental and private agencies. Topics include; communicable diseases, chronic disease and other illness, population planning, accident prevention, and rehabilitation programs.

Course Objectives

By the end of this course, students should be able to:

- Identify distribution and determinants for different encountered health problems that help in planning for a preventive and control program.
- Identify the role of epidemiology in measuring the occurrence of health related problems among population and in evaluating the effectiveness of preventive programs and health care services.
- Investigate an epidemic or outbreak of diseases.
- Identify magnitude of accidents in the community and evaluate preventive program.

Teaching strategies

The course will be conducted in a form of lectures, class discussions, seminars and student presentations.

Learning Resources

Required Text (s)

- **Harris RE.** (2013). Epidemiology of Chronic Disease: Global Perspectives. Jones and Bartlett Learning.
- **Macera CA, Shaffer RA, Shaffer PM.** (2103). Introduction to epidemiology, distribution and determinants of disease in humans. 2013; DELMAR, CENAGE learning, USA.
- **Park K.** (2011). Park's textbook of preventive and social medicine. 21st ed, Banarsidas Bhanot Publishers, India.
- **Nelson K, Williams C.** (2007) Infectious disease epidemiology: Theory and practice. 2nd edition. Jones and Bartlett Publishers; Toronto, London.

Essential References

- **Nelson K, Williams C.** (2007) Infectious disease epidemiology: Theory and practice. 2nd edition. Jones and Bartlett Publishers; Toronto, London.
- **Maxcy-Rosenau.** (2007). Last's Textbook of Public Health & Preventive Medicine.

Recommended Journals

- **American journal of epidemiology.** Available at <http://aje.oxfordjournals.org/>
- **International Journal of Epidemiology.** Available at <http://ije.oxfordjournals.org/>
- **Public Health Nutrition,** Available at <http://journals.cambridge.org/action/displayJournal?jid=PHN>
- **Journal of epidemiology.** Available at <http://www.jstage.jst.go.jp/browse/jea> American
- **American Journal of Clinical Nutrition.** Available at <http://ajcn.nutrition.org>

Electronic Materials and Web Sites

- Centre of Disease Control and Prevention. Available online. URL: <http://www.cdc.gov>.
- National Institute of Allergy and Infectious Diseases. Available online. URL: www.niaid.nih.gov

Topics to be Covered

List of Topics	No of Weeks	Contact hours
Introduction: Concept of health and definition of related terms.	2	6
Investigation of epidemics	1	3
Epidemiology of respiratory diseases	2	6
Epidemiology of cardiovascular disease	1	3
Epidemiology of cancer	2	6
Epidemiology of diseases related to gastro-intestinal tract	3	9
Epidemiology of endocrine problems	1	3
Epidemiology of degenerative diseases	2	6
Traffic accidents and their prevention	1	3

Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
a.	Mid term I	5- 7 th week	20 %
b.	Mid term II	10-12 th week	20 %
c.	Class discussion and assignment	Continuous	10 %
d.	Presentation	4 nd to 14 th week	10%
e.	End Semester Exam	16 th -18 th wk	40 %

Week Due	Details
Weeks (1 and 2)	Introduction: Concept of health and definition of related terms. <ul style="list-style-type: none"> • Overview about concept of health, concept and definition of epidemiology
Week (3)	Investigation of epidemics <ul style="list-style-type: none"> • steps of an epidemic investigation • plot and interpret an epidemic curve • formulate hypotheses to explain the epidemic in terms of: possible source, causative agent, possible modes of spread and environmental factors which enabled it to occur • recommend control and prevention measures
Weeks (4 to 14)	Epidemiology of respiratory diseases, cardiovascular disease, cancer, diseases related to gastro-intestinal tract, endocrine problems, degenerative diseases <ul style="list-style-type: none"> • Magnitude of the problem • Epidemiological distribution (person, place, time trend) • Determinants (risk factors) • Prevention
Week (15)	Accidents and its prevention.

Course rules

- **Attendance:** Attending at least 75% of the lectures is mandatory otherwise students will be denied access to the final exam. Students who arrive to class 15 minutes late for two times will be considered absent for one class.
- **Special examination:** NO special examination will be given for students who have missed the scheduled examination time except in cases of special circumstances accompanied with the necessary documentation. In this case, students have to take the exam during the next week from the initial scheduled examination time.
- **Participations:** Positive participation with the instructor is recommended, but side talks are prohibited.
- Using mobiles is prohibited during the lecture

Class Leader:

A group leader is a student in the class who will be chosen by the majority of class students. He should fulfill the following criteria:

- GPA: not less than 3.5 /5.00
- Good relationship with all students in the class
- High moral standards and effective communication skills.

Duties of the Class leader:

- Acquiring contact information from all students in the class
- Maintaining continuous contact with the course instructor with quick interaction
- Delivering information and answering questions to the students quickly
- Delivering students concerns, information and questions to the instructor quickly

Advantages for the class leader:

- If the Class leader is successful in performing the above mentioned duties, he will get the full mark in **Class discussion and assignment** (10 marks)
- If the group leader fails in these duties, the instructor has the right to call for choosing another Class leader.