Course Syllabus

Basic epidemiology

CHS 334

Course title and code:	Basic Epidemiology (CHS 334)
Program in which the course is offered:	Health Education program/ Clinical Nutrition Program/ clinical laboratory program
Credit hours	3hours (2 theoretical+1 practical)
total contact hours per semester	45 hours
Level at which this course is offered:	6th level
Course prerequisites:	None
Semester :	1st term 1438-1439

Instructor :

Lecture : Eman Abu Alfawaris

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☒ Course Overviews

The purpose of this course is to study the basics of epidemiology that help students in applying these basics in research conduction. Moreover, the course identifies the role of epidemiology in measuring the occurrence of health related states among population and in evaluating the effectiveness of preventive programs and health care services. The course also covers the basic concepts and methods of epidemiology, and demonstrates how these can be applied to improve population health and reduce health inequities.

■ Course Objectives

❖ General Course Objectives:

The general objective of the teaching epidemiology course is to introduce students to the principles and methods of epidemiology to enable them to design, conduct, analyze, and interpret epidemiologic research. Upon completion of the epidemiology course, students should have acquired an understanding of the following broad topics:

a) Explaining the reason for local disease occurrence

b) Effective planning and administration of health care services

c) Contribution of epidemiology and biostatistics to health research

d) Design, conduct, and analysis of epidemiologic studies

e) Critical appraisal of epidemiologic studies, synthesis and integration of epidemiologic research, and causal inference in epidemiologic research

e) Communication of scientific results

❖❖Specific Course Objectives:

At the end of the course the students will be able to;

1. Understanding causation of disease with specific purpose of
    a. formulation and selection\rejection of hypothesis
    b. Testing hypothesis through survey, observational study

2. Classify disease \disability based on distribution caused factors, and natural history of disease.
3. Explaining local disease pattern.
4. Evaluate preventive and therapeutic measures for a disease or condition
5. Clarify importance of sources of epidemiological data.

☒ Course Outline

List of topics	Week	Contact hours
Introduction & definition	1	3
Concept of epidemiology	1	3
Measuring morbidity	1	3
Measuring mortality	1	3
Descriptive study	1	3
Descriptive study	1	3
Case control study	1	3
Cohort study	1	3
Experimental study	1	3
Causation nursing	1	3
Screening	1	3

Course Evaluation:

Assessment	Week	Mark
1st Midterm	8	20
2nd Midterm	12	20
Homework and class activity	Around the semester	5
Open book exam	13	5
Final Exam	End of Semester	40

☒ Course Requirements:

1- Lectures and group discussions will be adopted as methods of Teaching for this course.

2- Students will be required to read on articles related to the course content guiding by a list of internet sites.

3- Each student will present a home work exercise for each exercise that they exposed to at the classroom contact with their teacher.

☒ References Material (Journals, Reports, etc)

- Clinical epidemiology, the essentials. 4th edition (2004): Robert H Fletcher and Suzanne Fletcher. Williams & Wilkins Co., USA
- Modern Epidemiology, 2nd edition (1998): Kenneth J Rothman & Sander Greenland. Lippincott Williams & Wilkins, USA
- Basic statistics and Epidemiology, a practical guide (2002): Antony Stewart. Radcliffe Medical Press Ltd.
- Epidemiology for the Uninitiated. 4th edition (1998): D Coggon, Geoffrey Rose and DJP Barker. BMJ Publishing Group Last J M, A Dictionary of Epidemiology and 4th edition 2001

☒ Essential References

- Park K. Park's textbook of preventive and social medicine. 21st ed, 2011; M/s Banarsidas Bhanot Publishers, India.
- Beaglehole R, Bonita R, Kiellstrom T. Basic epidemiology.World Health Organization (WHO): Geneva. 1993.
- Kenneth J. Rothman & Sander Greenland (1998): Modern Epidemiology. 2nd edition. Lippincott Williams & Wilkins, USA.
- *Applied Epidemiology: Theory to Practice*. 2nd ed. Brownson R and Petitti D eds. Oxford: Oxford University Press, 2006.

☒ **Electronic Materials, Web Sites etc**

- Super course-Epidemiology, the Internet and Global Health
- **http://www.pitt.edu/~super1/**

☒ Recommendation Journals

- American journal of Epidemiology.
- Annals of Epidemiology.
- Epidemiologic Review
- Journal of Epidemiology and Community Health

قواعد عامة

1 – نسبة الغياب عن المحاضرات لا تتعدى 25% بعذر مقبول حتى لا يتم حرمانك من دخول الاختبارات النهائية.

2 – عند الغياب عن أى من الاختبارات أثناء الفصل الدراسي لا يسمح بالإعادة إلا بعد دراسة عذر الغياب والموافقة الكتابية على الإعادة.

3 – يمنع استخدام الجوال أثناء المحاضرة حتى لا تتعرضي للحرمان من المحاضرة.

4 – أسئلة الاختبارات سوف تكون متنوعة بين اختيار من متعدد، أكملي، صح وخطأ، عرفي، اذكري المصطلح العلمي، حل مسائل مثل حساب معدلات المراضة والوفيات.

5. يجب عدم التاخر في الصباح عن المحاضرة وسوف يتم اغلاق الباب بعد 5 دقائق من وقت بدء المحاضرة

5 – في نهاية كل محاضرة سوف يكون هناك تغذية راجعة عن محتوى المحاضرة ونقاط الصعوبة التي تحتاج توضيح.

6 – التواصل يكون عن طريق الإيميل واثناء الساعات المكتبية

Time Table

Epidemiology Course (CHS 334)

1st Semester 1438-1439

Sunday (8AM-12PM)

Week	Date	Lecture\Exam
1	26-12\38	Introduction and syllabus discussion
2	4-1-39	National day off
3	11-1-39	Definition of terms
4	18-1-39	Concept of Epidemiology
5	25-1-39	Measuring Morbidity rate
6	2-2-39	Measuring Mortality rate
7	9-2-39	Epidemiological study (Descriptive epidemiology)
8	**16-2-39** **29-10-2017**	**1st Midterm Exam**
9	**23-2-39**	2ND Descriptive study
10	1-3-39	Case Control Study
11	8-3-39	Cohort Study
12	**15-3-39** **3-12-2017**	**2nd Midterm Exam**
13	22-3-39	Experimental Study
14	29-3-39	Screening Nursing
15	6-4-39	Causation Nursing
16	13-4-39	Open book exam

Best Regard