



وكالة الجامعة للشؤون التعليمية
البرامج الدراسية والتطوير

(5)

مختصر توصيف

وبائيات

(Course Syllabus)

وبانيات	:
BIOL-446	:
علم البيئة BIOL-241	:
-	:
	:
3	:
Module Title:	Epidemiology
Module ID:	BIOL-446
Prerequisite (Co-requisite) :	Ecology, BIOL-241
Co-requisite :	-
Course Level:	7 th
Credit Hours:	3

:(Course Information) *

Module Description

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This course introduces the basic concepts of epidemiology as applied to public health problems and the distribution and determinants of health-related events in specified populations. This study emphasis the principles, methods of epidemiologic investigation and to study to the control of health problems

Module Aims

أهداف المقرر :

To learn and understand

1	Define epidemiology	1
2	Summarize the historical evolution of epidemiology	2
3	Name some of the key uses of epidemiology	3
4	Identify the core epidemiology functions	4
5	Describe the different modes of transmission of communicable disease in a population	5
6	Ethics in research involving human participants	6

Learning Outcomes:
مخرجات التعليم:
By the end of this module, students should be able to:

1	Recognize the concept of Epidemiology	1
2	Identify preventive measures applied in prevention of communicable diseases	2
3	Demonstrate the ability to solve basic problems involving the application of the concepts of epidemiology in those practical situations covered in the course.	3
4	Apply the gained procedures and methods in prevention of communicable diseases	4
5	Completing assignments in due time.	5

Course :
Contents:

ساعات التدريس (Hours)	الأسابيع (Weeks)	(Subjects)
3	2	Epidemiology ;definition and concept
2	1	Epidemiological cycle of the disease
2	1	Source and mode of transmission
3	2	Measures of disease frequency - Comparing disease frequencies
2	1	Cohort and Case-control studies
2	1	Introduction to Outbreak Investigation
3	2	Public Health Screening Programs
2	1	Control measures for individuals and community
3	2	Prevention and control of infectious diseases Immunization and chemoprophylaxis
3	2	Investigation of epidemics and Ethics in research involving human participants

Textbook and References:
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No	Name of the Text Book	Author	Publisher	Year	ISBN
	Epidemiology 101 2nd Edition	Robert H.Friis	ones & Bartlett Learning	2009	0763754439 9780763754433

References

1	Basic Epidemiology	Bonita, R., Beaglehole, R., Kjellström, T.	World Health Organization	2006	9240681833 9789240681835
2	Principles of Epidemiology in Public Health Practice (3 rd Edition)	CDC	CDC	2006 Updated 2012	-
	Essentials Of Epidemiology In Public Health 3rd Edition	Ann Aschengrau and George R. Seage	Burlington, MA : Jones & Bartlett Learning	2014	9781449657352 1449657354

Online References :

<https://www.cdc.gov/ophss/csels/dsepd/ss1978/lesson1/section1.html>
<http://www.healthknowledge.org.uk/e-learning/epidemiology/practitioners/measures-disease-frequency-burden>
<http://www.theanalysisfactor.com/cohort-and-case-control-studies-pros-and-cons/>
<https://www.ncbi.nlm.nih.gov/books/NBK230552/>

