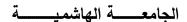
# The Hashemite University









# **Deanship of Academic Development** and International Outreach

عمادة التطوير الأكاديمي والتواصل الدولي

Syllabus: Introduction to Public Health (111500209)

# **Summer Semester 2023- /2024**

COURSE INFORMATION				
Course Name: Introduction to Public Health		Course Code:	111500209	
Semester: Summer Semester		Section: Preclinical course.		
Department:	Department of Basic Medical Sciences	Core Curriculum: MD program		
Faculty:	Faculty of Medicine			
Day(s) and Time	(s): Sunday: 8:00-10.00	Credit Hours:	3	
Tuesday: 8:00-10.00 Thursday: 8:00-10.00 Classroom: Alliance medical sciences theater		Prerequisites:	None	

## **COURSE DESCRIPTION**

This course is an introductory course intended to introduce undergraduate students in a variety of disciplines to the basic items of public health. The subject will enable the students to acquire skills and develop an attitude towards the community as the focus of care utilizing the Primary Health Care approach and accept his responsibility for health promotion and disease prevention as part of the holistic approach to health care. The course will provide an introduction to community medicine, epidemiology, primary health care, mother, and child health (MCH) and health care system. The course will help the students to describe chain of infection of communicable diseases and describing epidemic patterns. Also, the course will enable the student to assess environmental risk, as well as the public health response of disaster management.

## **DELIVERY METHODS**

The course will be delivered through a combination of active learning strategies. These will include:

- PowerPoint lectures and active classroom-based discussion
- Video lectures
- E-learning resources: e-reading assignments and practice quizzes through Model and Microsoft Team

FACULTY INFORMATION			
Name Dr Eman Adnan Al- Kamil			
Academic Title:	Associate professor		
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Office Hours:	Sunday 11.00-1.00 Thursday 11.00-1.00 Please send an e-mail (emana_sa@hu.edu.jo) to meet at any other time.		

# REFERENCES AND LEARNING RESOURCES

1- Community medicine : with recent advances /

Author: Suryakantha, AH.

Publication: Jaypee Brothers Medical Publishers, New Delhi: 2010.

Edition: 2nd ed.

2- Principles of community medicine /

Author: Rao, B. Sridhar.

Publication: A.I.T.B.S. Pub., Delhi: 2010

Edition: 5th ed.

3- Selected articles and handout documents on community medicine (will be available to students as

electronic versions).

# STUDENT LEARNING OUTCOMES MATRIX\*

Core	Program	Program Course Objectives Course Student Learning		Assessment	
Curriculum Learning Outcomes	Learning Outcomes		Outcomes	Method	
CC-LO-1 Think critically and creatively in a variety of methods in order to make decisions and solve problems.	PH -LO-1: Apply critical thinking and demonstrate problem-solving skills in two or more of the major fields of Public Health.	1. Develop an understanding of the basic principles of the major aspects of Public Health.  2. Obtain a thorough foundation in the various fields of	1.Understand the concept and meaning of Public Health. 2-Identify the aims and objectives of Public Health.  2.Describe Public Health development and achievements.	<ul> <li>Exams</li> <li>Quizzes</li> <li>"On-line' reading assignments</li> <li>homework assignments</li> <li>Exams</li> <li>Quizzes</li> <li>"On line' reading</li> </ul>	
		Public Health.	<ul><li>3. Identify the components of Public Health.</li><li>4. Identify the role of Public Health physician in the improvement of health.</li></ul>	"On-line' reading assignments	
		3. Learn to prevent health problems by different prevention methods.	<ul> <li>3.1. What is meant by primary, secondary, and tertiary prevention?</li> <li>3.2. Give examples on prevention levels.</li> <li>3.3. Explain the role of health education and promotion in health improvement.</li> <li>3.4. Explain the role of screening as secondary prevention.</li> <li>3.5. Assess the validity of a screening test.</li> </ul>	<ul> <li>Exams</li> <li>Quizzes</li> <li>"On-line' reading assignments</li> <li>homework assignments</li> </ul>	
		4. Understand the measures of population health, fertility rates, mortality rates and morbidity rates.	4.1. Understand and calculate different rates, fertility rates, mortality rates and morbidity rates.	<ul> <li>Exams</li> <li>Quizzes</li> <li>"On-line' reading assignments</li> <li>homework assignments.</li> </ul>	
CC-LO-2. Communicate competently with others using oral and written English skills  CC-LO-2. Demonstrate competency in the use of	PH-LO- 2: Use modern literature search methods to obtain information about Public Health topics and write reports.	5. Obtain an understanding of the role of Public Health in other disciplines, and its importance of primary health care services and understand different primary health care programs and its role in the improvement	<ul> <li>5.1. Acquire the ability to learn independently; articulate the importance of independent learning for future professional development.</li> <li>5.2. Recognize the various types of health service.</li> <li>5.3. Describe the principles of primary health care.</li> <li>5.4. identify the component of primary health care</li> </ul>	"On-line" reading assignments	

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research skills and various		of the health status of		
information		the population.		
sources.				
sources.				
			6.1. identify the different	
CC-LO-4.			services available in the MCH	
Identify the				
general			centre for children under five.	
concepts of			6.2. discuss the importance of	
Public Health			maternal services, antenatal, natal	
and its value in			and postnatal care.	
maternal and			6.3. identify the main maternal	
child health.			health problems.	
			6.4. identify high risk pregnancy.	
			6.5. Discuss the importance	
			•	
			of family planning program	
			6.6. recognize the essential	
			activities for birth control	
			services.	
			6.7. discuss the importance of	
			School health services and identify	
			the most important school health	
			services.	
			Services.	
	PH-LO-3: Communicate	7. Acquire positive attitudes towards	7.1. Develop a positive attitude towards Public Health and its	On-line' reading
	results to Public Health and	further studies in Public Health and	applications in society, and towards further study and lifelong learning.	assignments
	maternal and child	towards the	Turther study and melong learning.	Home-work · .
	health.	application of public	7.2. discuss the important of	assignments.
		Health in other	Vaccination.	
		disciplines.		
			7.3. Develop a positive attitude	
			towards vaccination and its	
			applications in society and explain its	
			role in prevention of communicable	
			diseases.	
		_	7.2 identify the different	
	PH-LO-4:	7. identify the	7.2. identify the different contraindication to vaccinations.	
	The course will	schedule of EPI.	contrainulcation to vaccinations.	
	shed the lights on			
	the implications of			
	studying role of			
	Public health in			
	disease prevention			
CC -LO-5:	by vaccination. PH- LO- 5:	8. identify the	8.1. identify portal of entry.	On-line'
Identify the	The course will	8. identify the chain of infection and	o.i. identity portar of efficie.	• On-line reading
general	shed the lights on	its role in the	8.2. identify modes of	assignments
_	_	1	·	
concepts of	the implications of		transmission.	

Public Health and its value in the control of communicable diseases.	studying role of public health in the control and prevention of communicable diseases.	detection of infections.	<ul><li>8.3. identify portal of exist.</li><li>8.4. Epidemic Disease</li><li>Occurrence, and epidemic patterns.</li><li>8.5. Determine and investigate an epidemic with steps.</li></ul>	Home-work assignments.
CC-LO-6: Identify the general concepts of Public Health and its value in environmental sanitation.	PH- LO-6: identify some environmental health topics.	9. Understand environmental health topics.	9.1. Understand the concept of environmental risk assessment. 9.2. Discuss some environmental health topics: global warming, food and water sanitation.	<ul> <li>"On-line' reading assignments</li> <li>homework assignments.</li> </ul>
CC-LO-7: Identify public health response to disaster management.	PH- LO-6: identify disaster management and emergency preparedness.	10. Understand disaster management and emergency preparedness.	10.1. Demonstrate steps of emergency preparedness, mitigation, and disaster management idea.	<ul> <li>"On-line' reading assignments</li> <li>homework assignments.</li> </ul>

#### **ACADEMIC SUPPORT**

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate, and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

**Special Needs Section: Student Services and Care Unit** 

Tel: 053903333 ext. 4132 / 4583 / 5023 Location: Deanship of Students Affairs

Email: stydent@hu.edu.jo

#### **COURSE REGULATIONS**

# **Participation**

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. Those exceeding this limit of 15% will receive a failing grade regardless of their performance. It is a student's responsibility to monitor the frequency of their own absences. Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed

by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

# Plagiarism

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples, and it applies to all student assignments or submitted work:

- Use of the work, ideas, images, or words of someone else without his/her permission or reference to them.
- Use of someone else's wording, name, phrase, sentence, paragraph, or essay without using quotation marks.
- Misrepresentation of the sources that were used.

# <u>The instructor has the right to fail the coursework or deduct marks where plagiarism is detected</u>

#### Late or Missed exams:

• In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with university regulations an incomplete grade for the specific assessment will be awarded and an alternative assay assessment can be arranged.

## **Student Complaints Policy**

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

# **COURSE ASSESSMENT**

#### Course Calendar and Assessment

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment as listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

Assessment	Grade Weighting	Deadline
		Assessment

Exam 1	50 %	8/2024
Final Exam	50 %	9/2024

# **Description of Exams**

Test questions will predominately come from material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. Exam will consist of a combination of multiple- choice questions.

Make-up exams will be held for those who misses the exam, only for individuals who present official medical excuse. Only documented absences will be considered as per HU guidelines.

**Homework:** Will be given for each chapter, while the chapter in progress you are supposed to work on them continuously and submit in next lecture when I finish the chapter.

You are also expected to work on in-chapter examples, self-tests and representative number of ends of chapter problems. The answers of self-tests and end of chapter exercises are given at the end of the book.

Grades are not negotiable and are awarded according to the following criteria\*:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
А		3.75
A-		3.50
B+	Very Good	3.25
В		3.00
B-		2.75
C+	Good	2.50
С		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
1	Incomplete	-

# WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION

Note: For Health Economics (111500101) with 2 lecture periods per week (Monday /Wednesday), one lecture period covers (50 minutes). The course content specifies lectures handouts that will be included in quizzes, homework and exams.

subject 1	Introduction to <b>Public</b> Health		Week 1	6 <u>lectures hours</u>		
Lectures	<b>1-6:</b> Introduction					
The cond	The concept of Public Health					
1-What	1-What is Public Health					
2- Aims	and objectives Public Health					
1	onents of community medicine					
	y the rule of community doctor					
5- Comp	onents of Community Medicine:					
	<ul> <li>Epidemiology</li> </ul>					
	<ul> <li>Vital statistics</li> </ul>					
	<ul><li>Demography</li></ul>					
	<ul> <li>School health</li> </ul>					
	Mental health					
	Primary health care					
	Maternal health and Child health					
	Control of communicable diseases	;				
	<ul> <li>Control of non- communicable dis</li> </ul>	eases				
	Environmental health					
	Occupational health					
	<ul> <li>Nutrition</li> </ul>					
	Heath Service Administration					
	Health Education					
Subject 2	2: Measures of population health	Week 2	<u>6</u>	<u>lecture hours</u>		
1-fertilit	y indicators					
A. the o	crude birth rate					
B. the g	general fertility rates					
C the s	C. the specific fertility rate					
<b>0.</b> the c	c. die opselle fortility fato					
2-morta	2-mortality indicators					
A. the d	A. the crude death rate					
B. the o	B. the cause specific death rate					
C. the s	C. the sex specific death rate					
D. the a	D. the age specific death rate					
E. Case	e fatality rate					
	-					

- 3-Morbidity indicators:
- A. Incidence rate
- B. Cumulative incidence rate
- C. Prevalence rate

# **Subject 3:** What is epidemiology?

# Week 3

6 lectures hours

- A. Recent developments in epidemiology
- B. Definition, scope, and uses of epidemiology
- C. Epidemiology and public health
- D. Causation of disease
- E. Natural history of disease
- F. Health status of populations
- G. Evaluating interventions
- H. Achievements in epidemiology
  - Smallpox
  - Methyl mercury poisoning
  - Rheumatic fever and rheumatic heart disease
  - lodine deficiency diseases
  - Tobacco use, asbestos, and lung cancer
  - Hip fractures
  - HIV/AIDS
  - SARS

## **Subject 4: Disease Occurrence**

- A. Descriptive epidemiology.
  - Characteristics of persons
    - Distribution of disease with age
    - Distribution of disease with marital status
    - Distribution of disease with sex
    - Distribution of disease with education and occupation
  - Characteristics of place
  - Characteristics of time
    - Secular changes
    - Seasonal changes
- B. Analytical epidemiology:
  - Risk

- Risk factor
- Factors in causation

# **Subject 5:** The scope of prevention

Week 4

6 <u>lecture hours</u>

#### Levels of prevention

- Primordial prevention
- Primary prevention Population strategy
  - High-risk individual strategy
- Secondary prevention
  - Screening
  - Types of screening
  - Requirements for the success of screening program
  - Validity of a screening test
- Tertiary prevention

#### **Mid Exam**

#### **Subject 6:** Control of communicable diseases.

Week 5

6 <u>lecture hours</u>

- Chain of infection:
- Portal of entry
- Modes of transmission
- Portal of exit
- Epidemic Disease Occurrence
- Types of epidemics
- Common source outbreak
- Point Source outbreak.
- Continuing Source outbreak
- Person-to-Person Spread, propagated outbreak.
- Investigation of an epidemic

## Subject 7 Primary health care

Week 6

**6** lecture hours

- 1- Concept of primary health care
- 2- Principle of primary care
- 3- Strategies for the delivery of primary health care
- 4- Component of primary health care

# Maternal and Child Health (MCH)

- Under five health services
- 1- Services for children under five.
- Objectives of preventive, curative and follow up services for infants and preschool children
- Growth monitoring
- High risk babies and children

#### Maternal services

- 1- Antenatal care
- 2- Natal care
- 3- Postnatal care
- 4- Main maternal health problems
- 5- High risk pregnancy

# • Family planning program

- 1- Importance of family planning program
- 2- Basic program components
- 3- Essential activities for birth control services
- 4- Factors favoring use of contraceptive method

# School health services:

- 1- Services for school children.
- **2-** Duties of school physician.

# Subject 8: Environmental health. Week 7

4 lecture hours

- Definition of environment, ecology.
- Types of environments.
- Importance of environmental sanitation.
- The problem of global warming.
- The principles of food sanitation.
- The steps of water sanitation.
- The concept of environmental risk assessment

# Subject 9: Disaster management. 2 lecture hours

- Public health response to disasters.
- Types of disasters.
- Emergency preparedness.

#### Week 8

Final Exam