

The Hashemite University



الجامعة الهاشمية



Deanship of Academic Development  
and International Outreach

عمادة التطوير الأكاديمي  
والتواصل الدولي

## Syllabus: Health Economics (111500101)

First Semester 2023– /2024

COURSE INFORMATION			
<b>Course Name:</b>	Health Economics	<b>Course Code:</b>	111500101
<b>Semester:</b>	First Semester	<b>Section:</b>	Preclinical course.
<b>Department:</b>	Department of pharmacology, public health, and clinical skills	<b>Core Curriculum:</b>	MD program
<b>Faculty:</b>	Faculty of Medicine		
<b>Day(s) and Time(s):</b>	Monday: 9:30-10.30 11:30-12.30 Wednesday: 9:30-10.30 11:30-12.30	<b>Credit Hours:</b>	2
<b>Classroom:</b>	مدرج الطب مدرج العلوم الطبية المساندة	<b>Prerequisites:</b>	None
COURSE DESCRIPTION			
<p>Against a background of increasing demands on limited resources, health economics is exerting an influence on decision making at all levels of health care. Health economics seeks to facilitate decision making by offering an explicit decision-making framework based on the principle of efficiency. It is not the only consideration, but it is an important one and practitioners will need to understand its basic principles and how it can impact on clinical decision making. This course is based to review some of the basic principles of health economics and in particular economic evaluation.</p> <p>This course is specifically designed to enable the medical student to understand the principles of health economic that drive the demand for and supply of medical care in Jordan.</p> <p>After completing this course, the student should be able to understand the logic behind decisions made by physicians, hospitals, managed care organizations, and government as well as the choices made by consumers on individual and aggregate levels. The goal is for students to become better equipped at becoming effective decision-makers, themselves. Emphasis will be placed throughout the course on empirically sound and well-grounded economic theory; however, applications of such theory in real situations that have occurred and/or predicted to occur in the future will be illustrated.</p>			

## 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

<b>Name</b>	Dr Omnia Mohammed Anwar Elmahdy
<b>Academic Title:</b>	Assistant professor
<b>Office Location:</b>	Ground floor
<b>Telephone Number:</b>	1021
<b>Email Address:</b>	<a href="mailto:omnia@hu.edu.jo">omnia@hu.edu.jo</a>
<b>Office Hours:</b>	Monday 11.00-12.00 AM 1.00-2.00 PM Wednesday 11.00-12.00 AM 1.00-2.00 PM  <i>Please send an e-mail (<a href="mailto:omniastaff.@hu.edu.jo">omniastaff.@ hu.edu.jo</a>) to meet at any other time.</i>

## REFERENCES AND LEARNING RESOURCES

1. Healthcare Economics Made Easy, third edition Paperback  
Author: Daniel Jackson  
Scion Publishing Ltd.  
September 15, 2021
2. **Required Textbook :** Introduction to health economics  
Author: Wonderling , David. Gruen, Reinhold. Black, Nick. .  
Publisher: Open University Press,  
Publication Date: 2005.
3. Selected articles and handout documents on health economic issues (will be available to students as paper or electronic versions).
- 3- All compulsory weekly readings are available electronically on Model. .4

## STUDENT LEARNING OUTCOMES MATRIX\*

Core Curriculum Learning Outcomes	Program Learning Outcomes	Course Objectives	Course Student Learning Outcomes	Assessment Method
CC-LO-1 Think critically and creatively in a variety of methods in order to make decisions and solve problems.	HEco -LO-1: Apply critical thinking and demonstrate problem-solving skills in the major fields of Health Economics.	1. Develop an understanding of the basic principles of the major aspects of Health Economics.	1. Identify the value of health and determine the influence of health-on-health care.	<ul style="list-style-type: none"> <li>Exams</li> <li>Quizzes</li> <li>"On-line" reading assignments</li> <li>homework assignments</li> </ul>
		2. Obtain a thorough foundation in the various fields of Health Economics.	2. Identify factors that influence the demand for health care and health care seeking behaviour, and identify factors that influence the the supply of health care.	<ul style="list-style-type: none"> <li>Exams</li> <li>Quizzes</li> <li>"On-line" reading assignments</li> </ul>
		3. Develop an understanding of alternative ways of production and delivery of health care.	3.1 Describe the different types and characteristics of health care, primary, secondary, and tertiary health care.  3.2. Describe methods of planning, budgeting, and monitoring of health care.	<ul style="list-style-type: none"> <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	HEco-LO-2: Use modern literature search methods to obtain information about Health Economics topics and write reports.	4. Obtain an understanding of the role of Health Economics in other disciplines, and its importance in the medical field.	4. Acquire the ability to learn independently; articulate the importance of independent learning for future professional development.	<ul style="list-style-type: none"> <li>"On-line" reading assignments</li> </ul>
CC-LO-3. Demonstrate competency in the use of research skills and various	HEco-LO-3: Communicate results to Health Economics and other subjects.	5. Acquire positive attitudes towards further studies in Health Economics and towards the application of Health	5. Develop a positive attitude towards Health Economics and its applications in society, and towards further study and lifelong learning.	<ul style="list-style-type: none"> <li>On-line" reading assignments</li> </ul>

information sources.		Economics in other disciplines.		
CC-LO-4. Identify the general concepts of humanities and natural sciences in a manner that reveals their value in life.	HEco-LO-4: The course will shed the lights on the implications of studying health economics.	<p>6. Shed the light on determinants of health.</p> <p>7. Differentiate between changes in “demand” and changes in “quantity demanded” and identify factors which may facilitate changes in either.</p> <p>8. Define the following terms: fixed cost, variable cost, marginal cost, marginal analysis, opportunity cost, and universal cost.</p> <p>9. factors which affect the demand for medical care; predict the effect of certain occurrences (i.e., changes in income, recession, shifts in insurance policy) on the demand for medical care.</p> <p>10. Identify paying methods of health care providers</p> <p>11. Understand methods of economic evaluation.</p> <p>12. Understand health care financing.</p>	<p>6. Develop a positive attitude towards Health Economics and its applications in society, and towards further study and lifelong learning.</p> <p>7. Describe payment methods for health care providers and health care.</p> <p>8. Discuss the importance of insurance and its impact on health care utilization.</p>	

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.**

**The instructor has the right to fail the coursework or deduct marks where plagiarism is detected**

***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 essay exam can be arranged.
- Students who fail to attend an exam, on the scheduled date without prior permission, and/or are unable to provide an accepted medical note, will automatically receive a fail grade for this part of the assessment.

***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 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 %	30-11-2023
Final Exam	50 %	1/2024

**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 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.

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

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

<b><u>subject 1</u></b>	Introduction to Health Economics	<b><u>Week 1-2</u></b>	<b><u>4 lectures hours</u></b>
<b>1. Basic definitions and terminology; definitions of the following:</b> <ul style="list-style-type: none"> <li>• What is economics?</li> <li>• What is “Health”?</li> <li>• What is “Health Economics”?</li> <li>• What is Health care?</li> <li>• Levels of Health Care</li> <li>• Health care system</li> <li>• Why Health Economics?</li> </ul>			
<b><u>Subject 2-3</u></b>	Continuation.....	<b><u>Week 3-6</u></b>	<b><u>8 lecture hours</u></b>

2. Health economics 'map'
3. Types of health care
4. Scope of health economics
  - Why Health Economics?
  - Demand for health
  - Need for health
  - Supply of health

**Subject 4-5:**

**Week 7-8**

**4 lectures hours**

**5. Healthcare Economic Terms**

- Medical Care Cost
  - Fixed cost
  - Variable cost
  - Opportunity cost
  - Marginal cost
- Macroeconomic
- Microeconomic

**6. Paying for Care**

**7. Paying methods of health care providers**

**First Exam**

**Subject 6**

**Week 9**

**2 lecture hours**

**8. The impact of financing**

**9. The Role of the Health Care Consumer**

**Subject 7**

**Week 10 -11**

**4 lecture hours**

**10. Paying methods for health care and health care providers**

**11. Methods of Economic Evaluation:**

- Cost-minimisation analysis (CMA).
- Cost-effectiveness analysis (CEA).
- Cost-benefit analysis (CBA)
- Cost-utility analysis (CUA).

**Subject 8**

**Week 12 -13**

**4 lecture hours**

**12. Health care finance:**

- Methods of financing
- Universal coverage
- Health service financing source

**13. The Health System in Jordan**

- Health sectors in Jordan



- Councils and organizations
- Sources of Health Care Financing
- Health financing functions

**Subject 9**

**Week 14**

**2 lecture hours**

**14. Globalization and Health**

- Globalization and disease
- Global natural environment
- Global workforce
- The Changing Global Health landscape
- Medical tourism: Globalization of the Healthcare Marketplace

**Second Exam**

**Subject 10**

**Week 15-16**

**4 lecture hours**

**15. Health Worker Migration**

- Motives for migration
- Causes of migration
- Impact of migration
- Scope of migration
- Negative effects of health worker migration
- strategies to combat HRH migration and shortages
- World Health Organization response
- Measuring migration
- Managing migration

**Final Exam**