



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Allied Medical Sciences Department**

LM212 Hormones And Endocrine Glands - JNQF Level: 7

Second Semester 2023-2024

**Course Catalog**

2 Credit Hours. The course covers fundamentals of endocrine glands and their hormones that include functions of endocrine glands, types of hormones, hormone assays and analysis, and changes in hormone levels in endocrine disorders.

**Teaching Method:** Blended

**Text Book**

<b>Title</b>	Clinical Chemistry-Techniques, Principles, and Correlations
<b>Author(s)</b>	Michael L. Bishop, Edward P. Fody, Carleen Van Siclen, James March Mistler, Michelle Moy
<b>Edition</b>	9th Edition
<b>Short Name</b>	Ref #1
<b>Other Information</b>	Publication year: 2023

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics	Nader Rifai	9th Edition	Publication year: 2023
Ref #3	Guyton and Hall Textbook of Medical Physiology (Guyton Physiology)	John E. Hall	14th Edition	Publication year: 2021

**Instructor**

Name	Dr. REFAT NIMER
Office Location	-
Office Hours	
Email	rmnimer@just.edu.jo

<b>Class Schedule &amp; Room</b>
Section 1: Lecture Time: Tue : 12:30 - 13:30 Room: NB49

<b>Tentative List of Topics Covered</b>		
<b>Weeks</b>	<b>Topic</b>	<b>References</b>
Week 1	Introduction- Definition of hormone	<b>Handouts From Ref #1</b>
Week 2	Neural- endocrine control	<b>Handouts From Ref #1</b>
Weeks 3, 4	Type of hormones -Mechanism of action	<b>Handouts From Ref #1</b>
Week 5	Endocrine glands and hormonal function- Pineal function-Melatonin	<b>Handouts From Ref #1</b>
Week 6	Hypothalamus - Pituitary function (anterior and posterior)	<b>Handouts From Ref #1</b>
Weeks 7, 8	Hypothalamus-pituitary adrenal axis - Regulation of sodium, potassium, hydrogen ion, and water	<b>Handouts From Ref #1</b>
Week 9	Regulation of calcium and magnesium	<b>Handouts From Ref #1</b>
Week 10	Hypothalamus- pituitary- thyroid axis	<b>Handouts From Ref #1</b>
Weeks 11, 12	Hypothalamus- pituitary-gonadal axis	<b>Handouts From Ref #1</b>
Week 13	Growth hormone, Prolactin	<b>Handouts From Ref #1</b>
Week 14	Regulation of Blood Glucose	<b>Handouts From Ref #1</b>
Week 15	Catecholamines	<b>Handouts From Ref #1</b>

<b>Mapping of Course Outcomes to Program Outcomes and NQF Outcomes</b>	<b>Course Outcome Weight (Out of 100%)</b>	<b>Assessment method</b>
Understand basic concepts in endocrinology, including terminology, biochemistry, physiology, and pathology. [1SLO1][1L7K1]	20%	
Discuss endocrine disorders, their causes, and diagnosis [1SLO1][1L7K1]	25%	

Learn the principles of different methods used for measuring hormones levels and appropriate clinical samples regarding their types, collection, handling, transport, and storage to diagnose various endocrine disorders. [1SLO2] [1L7S2]	20%	
Evaluate the reliability of endocrine laboratory results with consideration of the quality assurance and clinical significance of the ordered tests [1SLO2] [1L7C2]	15%	
Interpret endocrine laboratory results in the context of case studies, correlating abnormal values to potential disorders. [1SLO3] [1L7S1]	20%	

Relationship to Program Student Outcomes (Out of 100%)											
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
45	35	20									

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7C2
45	20	20	15

Evaluation	
Assessment Tool	Weight
First Exam	30%
Second Exam	30%
Final Exam	40%

Policy	
Attendance and Absence	All absences will be entered electronically into the university site. If absence is more than 20%, the student will be banned from the course after electronic notification from the university through student e-mail (please review university regulations for more details). Attending the lectures will significantly enhance your grade. The student is responsible for any information discussed in lecture sessions. It is imperative to attend all classes!
Statement on Professionalism	Professional behavior is expected of students at all times. Attitude and professional behavior are the minimum criteria for passing this class. Examples of unprofessional behavior include but are not limited to: missing classes, tardiness, lack of attention for a speaker, talking to others during lecture, leaving a lecture before its completion without prior authorization of the instructor, working on other class material during class, and sleeping during class.
Cheating	University regulations will be applied on cases of cheating and/or plagiarism.
Cell phone	The use of a cellular phone is prohibited in classrooms and during exams. The cellular phone must be switched off in class rooms and during exams.
Make-up Exam	Make-up exams are entitled to students who miss the exam with an accepted legal or medical excuse endorsed by the instructor within 24 hours after the scheduled exam (please review university regulations for more details).

Feedback	Concerns, complaints, questions, and feedback are appreciated and should be expressed to the course instructor in the first instance. You can contact your instructor using e-mail or during office hours.
----------	--

Date Printed: 2024-02-20