



مركز الاعتماد  
وَضمان الجودة  
ACCREDITATION & QUALITY ASSURANCE CENTER



**The University of Jordan**

**Accreditation & Quality Assurance Center**

## **Course Syllabus**

**Course Name:**  
**Endocrine System**

1	Course title	Endocrine System	
2	Course number	0500222	
3	Credit hours (theory, practical)	3	
	Contact hours (theory, practical)	54 contact hours	
4	Prerequisites/corequisites		
5	Program title	Doctor of Medicine	
6	Program code		
7	Awarding institution	University of Jordan	
8	Faculty	School of Medicine	
9	Department	Several Departments	
10	Level of course	bachelor	
11	Year of study and semester (s)	2 <sup>nd</sup> year, summer semester	
12	Final Qualification	MD degree	
13	Other department (s) involved in teaching the course		
14	Language of Instruction	English	
15	Date of production/revision		

### 16. Course Coordinator:

*Office numbers, office hours, phone numbers, and email addresses should be listed.*

Prof. Darwish H. Badran  
 Office Hours: 1-3 Sunday to Thursday  
 Phone No. 23401 & 23427  
 Email: [dhbadran@ju.edu.jo](mailto:dhbadran@ju.edu.jo)

### 17. Other instructors:

*Office numbers, office hours, phone numbers, and email addresses should be listed.*

- 1- Prof. Salim Khraisha  
 Office Hours: 9-11 Sunday to Thursday  
 Phone No.23479  
 Email: [salimk@ju.edu.jo](mailto:salimk@ju.edu.jo)
- 2- Prof. Suhail ZmeiliKhraisha  
 Office Hours: 9-11 Sunday to Thursday  
 Phone No.23469  
 Email: [szmeili@ju.edu.jo](mailto:szmeili@ju.edu.jo)
- 3- Dr. Nafez Abu Tarboush  
 Office Hours: 9-11 Sunday to Thursday  
 Phone No.23414  
 Email: [Abutarboush@ju.edu.jo](mailto:Abutarboush@ju.edu.jo)
- 4- Dr. Heyam Awad

Office Hours: 9-11 Sunday to Thursday  
 Phone No. JU Hospital 2630  
 Email: [H\\_awad@ju.edu.jo](mailto:H_awad@ju.edu.jo)

### 18. Course Description:

*As stated in the approved study plan.*

This course covers the endocrine system from the standpoints of anatomic and histologic structure, hormones including their structures, functions, mechanisms of action receptors, and their metabolism in addition to the endocrinologic disorders including hyperactivity or hypoactivity, immune-mediated diseases, benign and malignant tumours and pharmacological properties of hormones and drugs used in the treatment of endocrine diseases. The course is concluded by studying the clinical aspects of the endocrine system including signs, symptoms and disease presentation.

*As stated*

### 19. Course aims and outcomes:

#### A- Aims:

Upon completion of this course students should be able to :

1. Explain why the endocrine system is so closely related to the nervous system.
2. Distinguish between an endocrine gland and an exocrine gland.
3. Define the term hormone and explain its general characteristics.
4. Distinguish between a steroidal and non-steroidal hormone, in terms of composition and action.
5. Describe the relations, embryological origin and the histological appearance of the: pituitary, thyroid, parathyroid and adrenal glands.
6. For each of the glands listed in above, name the hormone(s) they secrete identify the target organ of each hormone, and the effect of each hormone.
7. Define the term gonadotropin, name the two gonadotropins secreted by the anterior pituitary gland, and distinguish between them according to their actions.
8. Explain how the posterior pituitary gland does not produce hormones, but does secrete them.
9. describe how thyroid hormones are formed and stored.
10. Describe how calcium levels are maintained in the blood.
11. Name the two hormones that work together to regulate water and electrolyte levels in the blood and therefore regulate blood pressure.
12. Describe how glucose levels are maintained in the blood.

#### B- Intended Learning Outcomes (ILOs):

Upon successful completion of this course students will be able to ...

- 1) Identify the location, blood supply, innervation and anatomical relations of the endocrine glands
- 2) Know the development of the endocrine glands
- 3) Know the histological features of the endocrine glands
- 4) Define and categorize the hormones secreted according to their biochemical structure
- 5) Describe factors stimulating and inhibiting the secretion of each endocrine gland
- 6) Describe clinical manifestations of conditions resulting from hyper-and- hypo secretion of each endocrine gland
- 7) Identify the histopathologic appearance of some diseases of the endocrine glands
- 8) Know pharmacological preparations that stimulate or inhibit each endocrine gland

**20. Topic Outline and Schedule:**

Topic	Week	Instructor	Achieved ILOs	Evaluation Methods	Reference

**21. Teaching Methods and Assignments:**

Development of ILOs is promoted through the following teaching and learning methods:

**22. Evaluation Methods and Course Requirements:**

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Development of ILOs is promoted through the following teaching and learning methods:

- 1- Practical sessions in the dissecting room
- 2- Practical sessions in the multimedia lab.
- 3- Practical sessions in the pathology lab.

**23. Course Policies:**

A- Attendance policies: according to the bylaws of the University of Jordan

B- Absences from exams and handing in assignments on time:

C- Health and safety procedures: according to the bylaws of the University of Jordan

D- Honesty policy regarding cheating, plagiarism, misbehavior: according to the bylaws of the University of Jordan

E- Grading policy:

F- Available university services that support achievement in the course:

- Library
- labs

#### 24. Required equipment:

None

#### 25. References:

A- Required book (s), assigned reading and audio-visuals:

- Junqueira's Basic Histology, 13e  
Anthony L. Mescher  
McGraw and Hill  
Chapter 20
- Gray's Anatomy for Students  
Richard Drake & A. Wayne Vogl & Adam W. M. Mitchell  
Relevant pages will be announced in the 1<sup>st</sup> lecture
- Goodman and Gilman's: The Pharmacological Basis of Therapeutics  
Laurence Brunton, Bruce Chabner, Bjorn Knollman  
Relevant pages will be announced in the 1<sup>st</sup> lecture
- Guyton and Hall Textbook of Medical Physiology, 12e 12th Edition  
John E. Hall  
Relevant pages will be announced in the 1<sup>st</sup> lecture
- Robbins & Cotran Pathologic Basis of Disease,  
Vinay Kumar, Abul K. Abbas, Nelson Fausto, Jon Aster  
Relevant pages will be announced in the 1<sup>st</sup> lecture

B- Rec

C- Rec

#### 26. Additional information:

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Name of Course Coordinator: -----Signature: ----- Date: -----

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:  
Head of Department  
Assistant Dean for Quality Assurance  
Course File