



كلية العلوم
SCHOOL OF SCIENCE

The University of Jordan
Accreditation & Quality Assurance Center

COURSE Syllabus



1.	Course title	endocrinology
2.	Course number	0334463
3.	Credit hours (theory, practical)	3 Credit Hour
	Contact hours (theory, practical)	3 Credit Hour
4.	Prerequisites/corequisites	Animal physiology
5.	Program title	B.Sc. in Biological Sciences
6.	Year of study and semester (s)	2017/ 2018, Summer Semester
7.	Final Qualification	B.Sc. in Biological Sciences
8.	Other department(s) involved in teaching the course	None
9.	Language of Instruction	English
10.	Date of production/revision	12.8.2018
11.	Required/ Elective	Elective

12. Course Coordinator:

Officenumbers,officehours, phonenumber,andemailaddresses shouldbelisted.

Dr. Ahmed Abuzaiton

Office No.: 22210

Office Hour: Sun. Thurs. Th12:00 a.m - 13:00 P.m. 15:00 - 16:00 PM

Email address: a.abuzaiton@ju.edu.jo

13. Other instructors:

Officenumbers,officehours, phonenumber,andemailaddresses shouldbelisted.

None.

14. Course Description:

As stated in the approved study plan.

This course is divided into three parts. The first part covers mechanism action of hormones. The second part covers functions of hormones. Finally, the third part covers disorders of hyposecretion and hypersecretion. This course includes two lectures and one laboratory session.



15. Course aims and outcomes:

A- Aims:

The aims of this course is to understand the roles of vertebrate hormones in body homeostasis and explain the mechanism action of hormones.

B- Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to...

1. Differentiate between the mechanism action of lipid- soluble hormones and water soluble hormones.
2. Summarise the functions of anterior and posterior pituitary hormones.
3. Recall endocrine terminology: target cells, permissiveness, neuroendocrine reflex, second messenger, chemical messenger, and hypothyroidism.
4. Classify the factors that increase or decrease insulin secretion.
5. Debate the function of adrenal glands (aldosterone, cortisol, and catecholamine).
6. Predict the effect of progesterone and oestrogen on: menstrual cycle, menopause, pregnancy, Puberty.
7. Evaluate the negative feedback control-testosterone in regulation of testes

16. Topic Outline and Schedule:

Topic	Week	ILOs	Program SOs	ABET SOs	TLA (teaching, learning and Assessment)
Introduction to Endocrinology	1-2	1	1	A	Exam
Mechanism of hormone action					
Hypothalamus- Pituitary relationshi Anterior pituitary gland Posterior pituitary gland	3-6	2	1	A	Exams
The Thyroid gland	7-10	3	1	A	Exams
Metabolic Bone Disease					
The Adrenal cortex Endocrine Hypertension	11	3	1	A	Exams
Adrenal Medulla	12-13	4	1	A	Exams
Pancreatic Hormones Diabetes	14-15	5	1	A	Exams



Mellitus					
Testes Female Reproductive Endocrinology The Endocrinology of pregnancy	16	6	1	A	Exams

17. Evaluation Methods and Course Requirements (Optional):

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

18. Course Policies:

A- Attendance policies:

Students are allowed to not attend seven lectures (15%) in the whole semester. In this case, students must attend every lab weekly. If a student does not attend a lab, then he/she has a maximum numbers of four lectures to skip.

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

If a student does not attend an exam, he/she will get zero grade in that exam, unless, he/she shows a medical report that proves he/she could not attend the exam. In this case, a makeup exam will be offered to the student as soon as possible.

C- Health and safety procedures:

Students need to be aware of the basic procedure of laboratory safety. Part of the first lab in the first week of the semester is assigned to teach students these basic laboratory procedures.

D- Honesty policy regarding cheating, plagiarism, misbehavior:

University regulations will be implemented for any cheating attempt, plagiarism and misbehavior.

E- Grading policy + Weighting (i.e. weight assigned to exams as well as other student work)

Evaluation	Grade
Midterm Lecture Exam	30
Midterm Lab Exam	10
Report	5
Final Lab Exam	15
Final Lecture Exam	40



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

The university provides lab materials and equipment. Moreover, the university provides personnel to help in exams.

G- Statement on Students with disabilities

Students with Disabilities: Students with disabilities who need special accommodations for this class are encouraged to meet with the instructor and/or their academic advisor as soon as possible. In order to receive accommodations for academic work in this course, students must inform the course instructor and/or their academic advisor, preferably in a written format, about their needs no later than the 4th week of classes.

19. Required equipment:

1. Data shows and laptops for lectures
2. virtual experiment

20. References:

- A- Required Textbook:
- B- Gardener, DG.&shobakD.greenspans Basic and clinical endocrinology, 9th Ed,New York, McGrow Hill.2011.
- C- H.Maurice Goodman , Basic Medical Endocrinology, 4th Ed.Elsevier/Academic Press 2009;ISBN:978-0-12-373975-9
- D- Additional articles that will be available on the course website
- E- (<http://www.biology.lsu.edu/webfac/jstephens/courses.html>)
- F- Several class presentation are based on the presentations at the following web site:
- G- <http://vivo.colostate.edu/hbook/pathphys/endocrine/index.html>



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Date: ---12/8/2018-----

Name of Course Coordinator: Dr. Ahmed Abu-zaiton-----Signature: -----

أحمد أبو زيد

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