



Academic Course Specification Form

استمارة توصيف المقرر الأكاديمي

القسم الخاص بالطالب Section Concerning the Student

1. Course Code:	BIOLS 438	1. رمز المقرر:
2. Course Title	Endocrinology	2. اسم المقرر:
3. College:	Science	3. الكلية:
4. Department:	Biology	4. القسم:
5. Academic Program:	Bachelor of Science in Biology	5. البرنامج الأكاديمي:
6. Course Credits:	2-2-3	6. عدد الساعات المعتمدة:
7. Course NQF Level:	8	7. مستوى المقرر وفقاً للإطار الوطني للمؤهلات:
8. Notional Hours:	127	8. عدد الساعات الافتراضية:
9. NQF Credits:	13	9. عدد الساعات المعتمدة للمقرر وفقاً للإطار الوطني للمؤهلات:
10. Prerequisite:	BIOLS 372	10. المتطلب السابق للمقرر:
11. Lectures Timing & Location:		11. وقت المحاضرة ومكانها:
12. General Mode of Teaching and Learning	تقليدي Traditional	12. النمط العام للتعليم والتعلم:

13. Course Coordinator:		13. منسق المقرر:
14. Course Instructor:		14. مدرّس المقرر:
15. Office Hours and Location:		15. الساعات المكتبية ومكانها:
16. Instructor's Email:		16. البريد الإلكتروني لمدرّس المقرر:
17. Academic Year:		17. السنة الأكاديمية:
18. Semester:		18. الفصل الدراسي:
19. Textbook(s):		19. الكتب الدراسية للمقرر:
Jameson, J., 2021. Harrison's Endocrinology, 4th Edition. McGraw-Hill Education.		
20. References:		20. المراجع:
Any Endocrinology books available in library Recent Published literature reviews in Endocrinology		
21. Other Learning Resources Used (e.g. e-learning, field visits, periodicals, software, etc.):		21. مصادر التعلّم الأخرى (مثال: التعلّم الإلكتروني، زيارات ميدانية، دوريات، برمجيات، إلخ....)
UOB official platforms (Microsoft Teams & Blackboard)		
22. Course Description (as published in the College Catalogue):		22. توصيف المقرر (حسب ما ورد في دليل الكلية):
The structure of hormones; mechanism of their action; control of growth, maturation, reproduction, behavior and chemical homeostasis. Discussion covers hormones of the pancreatic islets; parathyroid glands, hypothalamus and pituitary glands, thyroid gland, adrenal gland and reproductive glands. Emphasis on the endocrine control of metabolism. Reference to major endocrine diseases will be made where necessary.		
23. Course Intended Learning Outcomes (3 to 5 CILOs):		23. مخرجات التعلّم للمقرر (CILOs) (3 إلى 5 مخرجات تعليمية):
1. Describe the anatomy and physiology of the endocrine system		
2. Identify the major hormones and their synthesis, release and functions in human body.		
3. Recognize the various factors related to major human endocrinological problems.		
4. Explain the mechanism of hormone regulation and feedback loops.		
5. Evaluate endocrine problems and concerns through writing and oral presentations.		
24. Course Assessment Percentages (as per Regulations of Study and Examination at the University of Bahrain):		24. أساليب التقييم ونسبها المنوية (بحسب نظام الدراسة والامتحانات في جامعة البحرين):

Assessment التقييم	Type النوع	Percentage النسبة	Assessment Date تاريخ التقييم
Test 1	Individual فردي	12%	
Test 2	Individual فردي	12%	
Oral presentation	Pair ثنائي	6%	
Case study	Group جماعي	5%	
Lab Quiz 1	Individual فردي	5%	
Lab Quiz 2	Individual فردي	5%	
Final Lab Exam	Individual فردي	15	
Final Exam	Individual فردي	40	
Total	100%		
25. Description of Topics Covered		25. وصف الموضوعات التي ينبغي تناولها:	
Topic Title (e.g. chapter/experiment title) الموضوع		Description التفصيل	
Ch1: Introduction to Endocrinology		Brief introduction to endocrinology system, its functions, and common conditions and disorders of endocrinology system.	
Ch2: Hormonal Communication		Classification of hormones, chemical signaling mechanisms, hormone synthesis, secretion, transport, and regulation. Hormone receptors and signal transduction processes.	
Ch3: Pineal Gland		Pineal gland anatomy and structure, main functions of the pineal gland, melatonin synthesis and metabolism, melatonin's mechanisms of action, and melatonin physiology.	
Ch4: Hypothalamus		Anatomy of the hypothalamus, hypothalamus hormones, main functions of the hypothalamus (cardiovascular regulation, regulation of body temperature, regulation of body water, endocrine control, regulation of food intake, and behavioral control).	
Ch5: Pituitary Gland		Pituitary anatomy and structure, anterior pituitary hormones functions: growth hormone; prolactin; follicle-stimulating hormone; luteinizing hormone; thyroid-stimulating hormone, and adrenocorticotrophic	

			hormone functions. The posterior pituitary hormones functions: oxytocin and antidiuretic hormone (ADH) or vasopressin.
Ch6: Thyroid Gland			Thyroid anatomy and structure, main functions of the thyroid gland, synthesis, secretion and regulation of thyroid hormones.
Ch7: Parathyroid Gland			Parathyroid anatomy and structure, main function of the parathyroid gland, synthesis, secretion and regulation of parathyroid hormones. Role of parathyroid in regulating calcium levels in the body.
Ch 8: Adrenal Gland			Adrenal anatomy and structure, main function of the adrenal gland, synthesis, secretion, and regulation of adrenal hormones. Role of the adrenal hormones in the body stress response and regulation of various metabolic processes.
Ch 9: Pancreas			Pancreas anatomy and structure, main function of the pancreas gland, synthesis, secretion, and regulation of pancreas hormones. The role of pancreas hormones in maintaining glucose homeostasis.
Ch10: Kidney Hormones			Kidney anatomy and structure, hormones secreted by kidney: erythropoietin, calcitriol thrombopoietin and rennin
Ch11: Digestive System Hormones			Digestive system hormones, main functions of digestive hormone, leptin and ghrelin, and gut hormones in managing diabetes type 2 and obesity.
Ch12: Sexual Reproductive Endocrinology			Gonads (ovaries and testes), definition, structure, hormones, and functions. The impact of sexual hormones on sexual development, puberty, menstrual cycle, behavior, and fertility.
26. Weekly Schedule (Theory)			26. الجدول الأسبوعي
Week الأسبوع	Date التاريخ	Topics Covered الموضوعات المتناولة	CILOs مخرجات التعلم للمقرر (CILOs)
			Teaching/Assessment Mode and Method منهجية ونمط التدريس/التقييم

1		Introduction to Endocrinology	1	Lectures & practical Test 1 Final Exam
2		Hormonal Communication	1, 3, 4	lectures Test 1 Final Exam
3		Pineal Gland Pineal gland anatomy and structure, main functions of the pineal gland	2, 3	lectures Test 1 Final Exam
4		Pineal Gland melatonin synthesis and metabolism, melatonin's mechanisms of action and physiology	2, 3	lectures Test 1 Final Exam
5		Hypothalamus	2, 3, 4	lectures & Practical Test 1 Final Exam
6		Pituitary Gland	2, 3, 4	lectures & Practical Test 2 Final Exam
7		Thyroid Gland	2, 3, 4	lectures & Practical Test 2 Final Exam
8		Parathyroid Gland	2,3,4	lectures & Practical Test 2 Final Exam
9		Adrenal Gland	2,3,4	lectures & Practical Final Exam
10		Pancreas	2, 3, 4	lectures & Practical Final Exam
11		Kidney Hormones and Digestive system Hormones	2, 3	lectures & Practical Final Exam
12		Sexual Reproductive Endocrinology in male	2,3,4	lectures & Practical Final Exam
13		Sexual Reproductive Endocrinology in female	2, 3, 4	lectures & Practical Final Exam
14		Assess endocrine problems and current advancements and emerging trends in endocrinology	5	Oral Presentation
15		Assess endocrine problems and current advancements and emerging trends in endocrinology	5	Oral Presentation
16				
Weekly Schedule (Lab)			الجدول الأسبوعي	

Week الأسبوع	Date التاريخ	Topics Covered الموضوعات المتناولة	CILOs مخرجات التعلم للمقرر (CILOs)	Teaching/Assessment Mode and Method منهجية ونمط التدريس/التقييم
1		No Lab		
2		Endocrine System	1	Lecture Quiz 1
3		Hormone Assessment Methods	1	Lecture Quiz 1
4		Brain Gland Disorders (hypothalamus, pineal gland & pituitary gland)	2, 3 & 4	Lecture La Exam
5		Thyroid Glands Disorders & Parathyroid Glands Disorders	2, 3 & 4	Lecture Lab Exam
6		No Lab		
7		Thymus and Adrenal Gland Disorders	2, 3 & 4	Lecture Lab Exam
8		How to write case study	5	Case Study
9		No Lab		
10		Pancreas Disorders	2, 3 & 4	Lecture Lab Exam
11		Reproductive Organs Endocrinopathies	2, 3 & 4	Lecture Quiz 2
12		Case Study Presentation	5	Case Study
13		Case Study Presentation	5	Case Study
14		Final Lab Exam	2, 3 & 4	Final Exam
27. Academic Integrity Statement			27. بيان النزاهة الأكاديمية	
Students are to observe the highest level of honesty and academic ethics in pursuit of their academic goals as per UOB Regulations of Student Conduct and Academic Integrity, Anti-plagiarism Policies , and Students' Rights and Responsibilities Handbook . The consequences for cheating, plagiarism, unauthorized collaboration, and other forms of academic dishonesty can be very serious and will be dealt with as per the aforementioned policies and regulations.			يتعيّن على الطلبة الالتزام بأعلى مستويات الصدق والأمانة والأخلاق الأكاديمية في سعيهم لتحقيق أهدافهم الأكاديمية وفقاً للوائح سلوك الطلاب والنزاهة الأكاديمية، سياسات مكافحة الانتحال ، و دليل حقوق الطلبة وواجباتهم ، المعمول بها في جامعة البحرين. يمكن لعواقب الغش والسرقة الأدبية والتعاون غير المصرح به وغيرها من أشكال عدم الأمانة الأكاديمية أن تكون خطيرة للغاية وسيتم التعامل معها وفقاً للسياسات واللوائح المذكورة آنفاً.	
28. Attendance and Absence Regulations			28. نظام الحضور والغياب	
Students are required to adhere to regular attendance for class lectures and practical sessions, as determined by the nature of the course, as per Article (33) of Regulations of Study and Examination at the University of Bahrain .			يجب على الطلبة الالتزام بالحضور المنتظم للمحاضرات الصفية والعملية، حسبما تحدده طبيعة المقرر الدراسي، ووفقاً للمادة (33) من نظام الدراسة والامتحانات في جامعة البحرين .	