

نموذج توصيف مقرر
Course Description Form

Name of College\Faculty : Faculty of Science

اسم الكلية:

Name of Department: Biological Sciences

اسم القسم العلمي:

Course Name	Molecular endocrinology			اسم المقرر
Course No.	0947-403			رقم المقرر
No. of Credits	3			عدد الوحدات
Theoretical Hours	3			عدد الساعات النظرية
Practical Hours	0			عدد الساعات المحلية
Course topics				
مواضيع المقرر				
General Concepts of Endocrinology, endocrine system, general mechanism of hormone action, endocrine methodologies, receptors and signal transduction: channels and ion uptake, moving signals across membrane, growth factors end hormones and cancers				
Text book: (Name, Author , Year , Publisher)		عنوان الكتاب : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)		
Greenspan's Basic & Clinical Endocrinology, David G. Gardner Dolores Shoback, 10th Edition, 2018, McGraw Hill				
References: (Name , Author , Year . Publisher)		عنوان المرجع : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)		
Endocrinology, 10 th Ed., 2009, Mac. E. Hadley				

Prerequisites 0497-383				متطلبات المقرر	
Grading	Exams	30	%		الاختبارات
	Quizzes		%		امتحانات قصيرة
	H.W.	10	%		واجبات
	Project (field study)	20	%		مشاريع (دراسة ميدانية)
	Final	40	%		الاختبار النهائي
	100%				آلية رصد المقرر

أهداف مخرجات المقرر :

الرقم	أهداف مخرجات المقرر :	أمثله من المقرر لتحقيق هذه الأهداف	المستوى المطلوب من عضو هيئة التدريس لتحقيق الهدف :		
			منخفض	متوسط	عالي
1					
2					
3					
4					
5					
			الحقول		
			المهارات		
			منسق المقرر (اسم عضو هيئة التدريس المشرف على توصيف المقرر ، توقيعه ، الختم و الرتبة الأكاديمية)		
			تاريخ إعداد النموذج		
			/ /		

Course objectives

No.	Course Objectives (Learning Outcomes)	Example(s) of relevant (Topics and activities)	Recommended Level to satisfy the objectives		
			High	Medium	Low
1	Describe the components, organization, and major functions of the endocrine system and distinguish it from the nervous system	Comparative overview: endocrine vs. nervous signaling		M	
2	Explain how hormones act on target cells based on their chemical class (peptide vs. steroid vs. amine), including receptor location and speed of response	Intracellular (nuclear) receptors vs. cell surface receptors	H		
3	Explain how extracellular hormonal signals are transduced across the plasma membrane to elicit intracellular effects	Annotate a GPCR pathway; compare RTK vs. GPCR signal transduction	H		
4	Explain the anatomical and functional integration of the hypothalamus and	Case studies on disorders (e.g., Cushing's	H		



	pituitary gland, including the roles of hormones, and the feedback mechanisms	syndrome, diabetes insipidus)			
5	Describe cellular mechanisms of insulin signaling and glucose uptake	Glucose tolerance test simulation/data interpretation	H		
6	Describe hypothalamus–Pituitary–Gonadal/Thyroid axis and the role of hormones and feed back mechanisms	Explain roles of GnRH, FSH, LH in male and female reproductive .cycles	H		
Fields	Endocrinology, molecular biology, cell signaling, genomics and transcriptional regulation, metabolism and homeostasis, reproductive and developmental biology, pharmacology and therapeutic, pathophysiology of endocrine disorders				
Skills	Molecular and cellular analysis skills, critical thinking & data interpretation, interdisciplinary integration, translational & clinical insight				
Coordinator (Name and Rank) :		Sarah A. Jasem, Assistant professor			
Signature and stamp :		 Dr. Sarah A. Jasem Dept. Biological Sciences Kuwait University			
Date:		17\11 \2025			