

General Anatomy and Physiology FORM

نموذج وصف المادة الدراسية

Module Information			
لومات المادة الدراسية			
Module Title	General Anatomy and Physiology		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UOMU0302022		
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level	1	Semester of Delivery	
Administering Department	الأنظمة الطبية الذكية	College	العلوم
Module Leader		e-mail	
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name	ا.د مهدي عبادي مانع	e-mail	mahdi.ebadi@uomus.edu.iq
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules			
للعلاقة مع لومات دراسية الأخرى			
Prerequisite module	IMS112	Semester	1
Co-requisites module		Semester	

Module Aims, Learning Outcomes and Indicative Contents

هأأاف المأفة الءراسفة وناأءء الءعلم والمأاوااف الإرشاءفة

<p>Module Objectives هأأاف المأفة الءراسفة</p>	<p>The primary aim of the anatomy and physiology module is to provide a general understanding of the structure and function of the human body. While the specific aims of the class are including:</p> <ol style="list-style-type: none">1. Knowledge of human anatomy: the course aim to develop a knowledge of the structure, organization, and relationships of the major anatomical systems of the human body, including the skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary, and reproductive systems.2. Understanding of physiological processes: To understand the fundamental physiological processes that occur within the human body, including the mechanisms of homeostasis, cells and tissue function.3. To explore the interconnection between the anatomical structure and physiological functions, emphasizing how the structure of organs and tissues determines their function and how physiological processes contribute to maintaining overall body homeostasis.4. Effective communication: The course also aim to develop effective communication skills in presenting and discussing anatomical and physiological concepts.
<p>Module Learning Outcomes ببأاء الءعلم للمأفة الءراسفة</p>	<p>By the end of the anatomy and physiology module, students will be able to:</p> <ol style="list-style-type: none">1. To develop a comprehensive understanding of the structure, organization, and relationships of the fundamental and major anatomical systems of the human body.2. To get the ability to understand main physiological processes.3. To have the ability to recognize and explain how the structure organs and tissues influences their functions and how physiological processes contribute to maintaining overall body homeostasis.4. Students will know the significance of anatomical and physiological processes knowledge, and how anatomical variations, physiological dysfunctions, and disease process impact human health and medical interventions.5. Students will develop their critical thinking skills in the interpretation and analysis of anatomical and physiological information and the ability to apply knowledge to solve problems, make connections between different systems and analyze complex physiological phenomena.
<p>Indicative Contents لامأاوااف الإرشاءفة</p>	<ol style="list-style-type: none">1. Introduction to anatomy and physiology:<ul style="list-style-type: none">○ An overview of the discipline and its importance in understanding the human body.○ Introduction to anatomical terminology and body planes.

	<ol style="list-style-type: none"> 2. Cellular level of organizations: <ul style="list-style-type: none"> ○ Structure and function of cells. ○ Cellular organelles and their roles. ○ Cell division and tissue repair. 3. Body systems: <ul style="list-style-type: none"> ○ Structure of body systems. ○ Functions of body systems. ○ Common disorders of body systems. 4. Applications and practices: <ul style="list-style-type: none"> ○ Anatomy and physiology exercises and quizzes. ○ Practical applications of anatomy and physiology.
--	--

Learning and Teaching Strategies سائر اتيجيات التعلم والتعليم	
Strategies	<ul style="list-style-type: none"> • Lectures • Discussion • Brainstorming • Practical presentations • (Lab works) Practical • Visual aids such as slide anatomical models to enhance understanding. • Multimedia resources such as videos, animations and online resources.

Student Workload (SWL) لاحمل لادر اسي للطالب محسوباً ٥ سابعاً			
Structured SWL (h/sem) لاحمل لادر اسي لامنتظم للطالب خلال لافصل	64	Structured SWL (h/w) لاحمل لادر اسي لامنتظم للطالب أسبوعياً	4
Unstructured SWL (h/sem) لاحمل لادر اسي غير لامنتظم للطالب خلال لافصل	86	Unstructured SWL (h/w) لاحمل لادر اسي غير لامنتظم للطالب أسبوعياً	6
Total SWL (h/sem) لاحمل لادر اسي لأكلي للطالب خلال لافصل	150		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي للنظري	
	Material Covered
Week 1	Introduction to anatomy <ul style="list-style-type: none"> ➤ Overview of anatomical terminology and body systems. ➤ Levels of organization in the human body.
Week 2	Introduction to Physiology: The Cell and General Physiology
Week 3	Membrane Physiology, Nerve, and Muscle
Week 4	The Heart
Week 5	The Circulation
Week 6	The Body Fluids and Kidneys
Week 7	Mid-term Exam
Week 8	Blood Cells, Immunity, and Blood Coagulation
Week 9	Respiration
Week 10	The Nervous System
Week 11	Gastrointestinal Physiology
Week 12	Metabolism and Temperature Regulation
Week 13	Endocrinology
Week 14	Reproductive system
Week 15	Tutorial about the course topic
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus) للمنهج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: Introduction to Microscopy
Week 2	Lab 2: Anatomical terminology and body system: anatomical terminology used in the lab.
Week 3	Lab 3: Collection and Handling of Blood.
Week 4	Lab 4: Packed Red Cell Volume (PCV)
Week 5	Lab 5: Body temperature
Week 6	Lab 6: Blood pressure Measurement
Week 7	Lab 7: Obesity and overweight
Week 8	Mid-term Exam
Week 9	Lab 8: Blood group
Week 10	Lab 9: Blood cell counts
Week 11	Lab 10: Lung Volumes and Capacities
Week 12	Lab 11: Heart Sounds Auscultation
Week 13	Lab 12: ElectroCardioGraphy (ECG)
Week 14	Lab 13: Urine examination
Week 15	Lab 14: difference between an X- Ray, CT, and MRI scan
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources ادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	<ol style="list-style-type: none"> 1. Guyton and Hall Textbook of Medical Physiology, John E. Hall, twelfth edition, 2011. 2. Ganong's review of Medical physiology , KIM E. BARRETT, SUSAN M. BARMAN, HEDDWEN L. BROOKS, JASON X.-J. YUAN, twenty Sixth Edition, 2019. 3. Anatomy and physiology, J. Gordon Betts, Kelly A. Young, 2013. 	Yes
Required Texts	Principles of Anatomy and physiology, Gerard J. Tortora, Bryan derrickson, fifteenth edition, 2016.	No

Recommended Texts	Human Anatomy & Physiology, Elaine Nicpon Marieb, Katja Hoehn, 2019.	No
Websites	https://www.coursera.org/search?query=anatomy%20and%20physiology&=null&index=prod_all_launched_products_term_optimization	

Grading Scheme ظلا الدرجات				
Group	Grade	لاتقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	ماتياز	90 - 100	Outstanding Performance
	B - Very Good	د جدا	80 - 89	Above average with some errors
	C - Good	د	70 - 79	Sound work with notable errors
	D - Satisfactory	تموسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	بول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	لب (فالعالجة)	(45-49)	More work required but credit awarded
	F – Fail	لب	(0-44)	Considerable amount of work required
Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.				