

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Anatomy and Physiology for Nurses II		Module Delivery	
Module Type	Basic		Method	h/week
Module Code	NUR111109		Theory	3
ECTS Credits	8 ECTS		Lecture	-
SWL (hr/sem)	200		Lab	2
			Tutorial	-
			Practical	-
			Seminar	-
Module Level	UG I	Semester of Delivery	2nd Semester	
Administering Branch	Basic Sciences	College	NUR	
Module Leader	Abdulridha Mohammed Badka	e-mail	abdulridha.b@uowa.edu.iq	
Module Leader's Acad. Title	Lecturer	Module Leader's Qualification	Ph.D.	
Module Tutor	Abdulridha Mohammed Badka	e-mail	abdulridha.b@uowa.edu.iq	
Peer Reviewer Name	Aaed Hameed Almosawi	e-mail	Aaed.h@uowa.edu.iq	
Scientific Committee Approval Date	November 2, 2025	Version Number	1.0	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Anatomy and Physiology for Nurses I	Semester	UG I, 1st Semester
Co-requisites module	None	Semester	None

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	1. To elucidate the physiological responses of the human body to alterations in the internal and external environment.. 2. To incorporate knowledge of anatomy and physiology into nursing and clinical procedures. 3. To improve critical thinking and problem-solving abilities by establishing a connection between the structure and function of health and illness. 4. To understand the significance of homeostasis and how it is regulated in various organ systems. 5. Demonstrate an understanding of cellular and tissue organization as the structural and functional foundation of the body. 6. To identify the functional integration between organ systems in maintaining vital life processes. 7. To utilize accurate scientific terminology related to anatomy and physiology in both written and oral communication. 8. Promote appreciation of the human body's complexity, adaptability, and harmony through theoretical and practical learning experiences.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. Apply theoretical knowledge to solve clinical case studies related to human physiology. 2. Evaluate the interactions between the cardiovascular, respiratory, and nervous systems in maintaining body functions. 3. Recognize the ethical and safety requirements in laboratory and clinical practice. 4. Utilize correct anatomical and physiological terminology in oral and written communication. 5. Demonstrate awareness of the human body's adaptability under normal and pathological conditions. 6. Solve clinical case studies about human physiology by applying theoretical information. 7. Examine how the respiratory, neurological, and cardiovascular systems interact to sustain bodily functioning. 8. Understand the safety and ethical standards for clinical and laboratory work. 9. When communicating verbally and in writing, use appropriate anatomical and physiological vocabulary. 10. Describe the morphology, function, and appearance of several types of white blood cells (leukocytes) under a microscope.
Indicative Contents المحتويات الإرشادية	<u>Theory Lectures</u> The respiratory system [SSWL= 3 hrs.] • Organization of the respiratory system • The upper respiratory tract • The lower respiratory tract • Internal and External respiration The mechanics of breathing [SSWL= 3 hrs.] • Respiration • Pulmonary ventilation • Gaseous exchange • Acid–base balance The male reproductive systems [SSWL= 3 hrs.] • The testes

- Spermatogenesis
- The scrotum

The Female reproductive system [SSWL= 3 hrs.]

- The primary genitalia
- The internal organs
- The external genitalia

Secondary sexual organs [SSWL= 3 hrs.]

- Growth of facial and body hair
- Increased muscle mass and heavier bones
- The breasts development

The nervous system [SSWL= 3 hrs.]

- Organization of the nervous system
- Sensory division of the peripheral nervous system
- Central nervous system
- Somatic nervous system

Autonomic nervous system [SSWL= 3 hrs.]

- Neurons
- Sensory (afferent) nerves
- Motor (efferent) nerves
- The action potential

The meninges [SSWL= 3 hrs.]

- Cerebrospinal fluid
- The brain
- Cerebrum
- The spinal cord

The endocrine system [SSWL= 3 hrs.]

- The endocrine organs
- Hormones
- The transportation of hormones
- Control of hormone release

The physiology of the endocrine organs [SSWL= 3 hrs.]

- The hypothalamus and the pituitary gland
- The thyroid gland and parathyroid glands
- The adrenal gland
- Pancreas

The immune system [SSWL= 3 hrs.]

- Organs of the immune system
- The thymus
- The lymphatic system
- Lymph nodes
- Lymphoid tissue

Types of immunity [SSWL= 3 hrs.]

- The innate immune system
- Blood cells of the immune system
- The acquired immune system
- Humoral immunity (B-cell)

The senses [SSWL= 3 hrs.]

- The chemical senses

- The sense of smell (olfaction)
- The sense of taste
- The tongue

The sense of sight [SSWL= 3 hrs.]

- Lacrimal apparatus
- The eye
- The processing of visual information

The senses of equilibrium and hearing [SSWL= 3 hrs.]

- The structure of the ear
- Equilibrium
- Hearing

Lab. Lectures

Respiratory organs tissue [SSWL= 2 hrs.]

- Respiratory organs layers
- Respiratory organs parts
- Locations of Respiratory parts

Male Reproductive parts [SSWL= 2 hrs.]

- tests tissue
- The scrotum tissue
- Locations of male reproductive parts

Female reproductive parts [SSWL= 2 hrs.]

- External layers
- Uterus and breast tissue
- Locations of female reproductive parts

Embryonic development and spermatogenesis [SSWL= 2 hrs.]

- Primordial germ cells
- Initiation of sperm production
- Spermatogonial phase

Platelets and bleeding time [SSWL= 2 hrs.]

- Platelets functions
- Bleeding time procedure
- Factors effecting of bleeding time

Prothrombin time and clotting time [SSWL= 2 hrs.]

- Factors effecting of Prothrombin time
- Factors effecting of clotting time
- Normal range

Microscopic anatomy of Nervous tissue [SSWL= 2 hrs.]

- Neuroglia
- Nerve cells parts
- Peripheral nerve tissue

Microscopic anatomy of brain [SSWL= 2 hrs.]

- Location of brain parts
- meninges layers
- cranial nerve tissue

Microscopic anatomy of glands [SSWL= 2 hrs.]

- Location of brain parts
- meninges layers
- cranial nerve tissue

	Types of glands [SSWL= 2 hrs.] • Exocrine, endocrine and mixed • Holocrine gland • Apocrine and merocrine glands Microscopic anatomy of lymphatic tissue [SSWL= 2 hrs.] • Types of lymphatic cells • Structure of thymus gland • Structure of lymph node Blood film [SSWL= 2 hrs.] • Granulocytes types • Agranulocytes types • Functions of WBC Microscopic anatomy of sense organs [SSWL= 2 hrs.] • Microscopic anatomy of eye • Microscopic anatomy of ear • Microscopic anatomy of tongue Visual test [SSWL= 2 hrs.] • Pupillary Reflex • Visual Acuity Test • Stereoscopic & Visual Field Tests Vestibular and balance test [SSWL= 2 hrs.] • Romberg's Test • Barany's Chair Test • Tandem Walking Total hrs = $\sum \text{SSWL} + (\text{Mid Exam hrs} + \text{Final Exam hrs}) = 75 + 4 = 79$
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Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1. Interactive Lectures 2. Project-Based Learning 3. Case Studies 4. Field Trips 5. Group Discussions and Presentations.

Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ أسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	5.27
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	121	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	8.07
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	200		

Module Evaluation																												
تقييم المادة الدراسية																												
		Time Number	Weight (Marks)	Week Due															Relevant Learning Outcome									
				W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	LO1	LO2	LO3	LO4	LO5	LO6	LO7	LO8	LO9	LO10
Formative	Quizzes	2	5%			X						X							X					X				
	Report	1	5%											X							X							
	Lab Report	1	5%								X											X						
	Project	-	-																									
	Online Assig.	2	5%					X				X									X					X		
	Onsite Assig.	1	10%							X															X			
	Seminar	-	-																									
Summative	Mid. Exam	1H	10% (10)						X												X						X	
	Final Exam	3H	50% (50)	Week 15															X	X	X	X	X	X	X	X	X	X
Total assessment			100%																									

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	The respiratory system
Week 2	The mechanics of breathing
Week 3	The male reproductive systems
Week 4	The Female reproductive system
Week 5	Secondary sexual organs
Week 6	The nervous system
Week 7	Autonomic nervous system
Week 8	The meninges
Week 9	The endocrine system
Week 10	The physiology of the endocrine organs
Week 11	The immune system
Week 12	Types of immunity
Week 13	The senses
Week 14	The sense of sight
Week 15	The senses of equilibrium and hearing

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Respiratory organs tissue
Week 2	Male Reproductive parts
Week 3	Female reproductive parts
Week 4	Embryonic development and spermatogenesis
Week 5	Platelets and bleeding time
Week 6	Prothrombin time and clotting time
Week 7	Microscopic anatomy of Nervous tissue
Week 8	Microscopic anatomy of brain
Week 9	Microscopic anatomy of glands
Week 10	Types of glands
Week 11	Microscopic anatomy of lymphatic tissue
Week 12	Blood film
Week 13	Microscopic anatomy of sense organs
Week 14	Visual test
Week 15	Vestibular and balance test

Learning and Teaching Resources

مصادر التعلم والتدريس

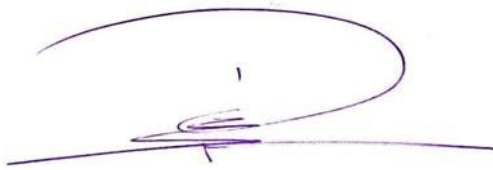
	Text	Available in the Library?
Required Texts	Peate, Ian, and Muralitharan Nair (eds.). Fundamentals of Anatomy and Physiology: For Nursing and Healthcare Students. 2nd ed., Chichester, West Sussex; Hoboken, NJ: John Wiley & Sons (Wiley-Blackwell), 2017	No
Recommended Texts	Waugh, Anne, and Allison Grant. Ross and Wilson: Anatomy and Physiology in Health and Illness. 12th ed. London: Churchill Livingstone/Elsevier, 2014.	Yes
Websites	https://pubmed.ncbi.nlm.nih.gov/	

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(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.



مدرس المادة




د. حسين كاظم حسين
رئيس فرع اساسيات التمريض