The Hashemite University







Deanship of Academic Development and International Outreach

عمادة التطوير الأكاديمي و التو إصل الدولي

Syllabus: General Anatomy (111501104) Second Semester 2023/2024

				COU	JRSE INFO	RMA	ATION	
							Course Code	111501104
	ourse l		General Anatomy			Section	Conorol Subjects	
	Semes	ster		Secon	d		Section	General Subjects
	epart	mont	Donor	tmont of	Anatomy,		Core Curriculum	MD Program
U D	epart	ment			siology &		Credit Hours	3
				Biochem			Prerequisites	None
					5		Classroom	301 & 302
	Facu	lty		Medici	ne			
Day(s) and	Time							
Sunday	Α	Anatomy L			omy Lab			
		(A1+A2) 12.	30-		-A4+5)			
		1.30		1.3	0-2.30	_		
Turadan	B A	- A			-			
Tuesday	А	Anatomy Le 9.30-10.3(-			
	В	Anatomy Le		natomy	Anatomy			
		10.30-11.3	-	Lab	Lab			
			`	(1+A2)	(A3+A4+5)			
				12.30- 1.30	1.30-2.30			
Thursday	А	Anatomy Le 10.30-11.3		-	-			
	В	Anatomy Le	ect.	-	-			
		9.30-10.3	0					

The course begins with understanding; the definition and significance of anatomy and its subdivisions; the term of position and movements; and the regional term applied in the study of human gross anatomy.
 The course introduces the basic structures encountered while dissecting a cadaver (skin, fascia, skeletal muscles, bones, joints, blood & lymphatic vessels, nervous system organization).

3. The course covers the main structures and functions of different body system; (Skeletal, muscular & Joints, CVS, Respiratory, GIT, Urinary, Male and Female Genital, and Nervous System).

4. The course covers the general embryology, which describe the development of embryo, fetal membrane, placenta and the causes of congenital malformations.

DELIVERY METHODS

The course will be delivered through a combination of active learning strategies. These will include:

- PowerPoint lectures and active classroom based discussion
- Collaborative learning through small groups acting in an interdisciplinary context.
- Relevant films and documentaries.
- Video lectures.
- E-learning resources: e-reading assignments and practice quizzes through Model and Microsoft Team.
- Lab sessions in the dissecting room showing plastinated models.

FACULTY INFORMATION

Academic titleAssistant professor of Anatomy& EmbryologyOffice location1031, 1st floor, Ibn Sina Medical Faculties complex		
Academic Title:Ass. Professor of Anatomy and EmbryologyOffice Location:3018, College of medicine, Hashemite UniversityTelephone Number:5604Email Address:mohamed@hu.edu.joOffice Hours:Sunday:11-1 Tuesday:11.00-1.00InstructorsNameMohamed Fathi ElrefaiAcademic titleAssistant professor of Anatomy & EmbryologyOffice location3018, 3rd floor, Ibn Sina Medical Faculties complexEmailmohamed@hu.edu.joOffice hoursSunday:11-1, Tuesday: 11-1NameAshraf SadekAcademic titleAssistant professor of Anatomy & EmbryologyOffice hoursSunday:11-1, Tuesday: 11-1NameAshraf SadekAcademic titleAssistant professor of Anatomy & EmbryologyOffice location3031, 3rd floor, Ibn Sina Medical Faculties complexEmailMohamed @hu.edu.joOffice location3031, 3rd floor, Ibn Sina Medical Faculties complexEmailAshrafm@hu.edu.joOffice location3031, 3rd floor, Ibn Sina Medical Faculties complexEmailAshrafm@hu.edu.joOffice hoursSunday:11-1, Tuesday: 11-1NameAmani AllamAcademic titleAssistant professor of Anatomy& EmbryologyOffice location1031, 1st floor, Ibn Sina Medical Faculties complex	Course coordinator:	
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Office location 1031, 1 st floor, Ibn Sina Medical Faculties complex	Name	Amani Allam
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Name Mustafa Salman	Name	Mustafa Salman

Academic title	Lecturer of Anatomy	
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Email	Mustafas@hu.edu.jo	
Office hours	Sunday: 11.30-1.30, Tuesday: 11.30-1.30	

REFERENCESAND LEARNINGRESOURCES

Text Books	Authors	Edition
Grey's anatomy for students	Richard Drake	4 th
Principles of Human Anatomy.	Gerard J. Tortora, Mark Nilsen	14 th
Clinical Anatomy for Medical Students	Richard S Snell	5 th
Before we are birth	K.L. Moore and T.V.N. Persaud,	10 th
Atlas of Human Anatomy	Frank H. Netter	Last edition

STUDENT LEARNING OUTCOMES MATRIX*

Program Learning Outcomes	Course Objectives	Course Student Learning Outcomes	Assessment Method
MD Program learning outcomes	Introduction to Human Anatomy	 Anatomical position. Body planes, terms of position, and regional terms. Body cavity. Subdivision & contents. Levels of organization. 	 Exams Quizzes "On-line' reading assignments
	Axial Skeleton I: The Skull	 Outline the bones of axial skeleton. Describe the general features of skull. Introduce the bones of skull; sutures, fontanels & their significances. Describe briefly the cranial cavity and base of skull. Outline important foramens of skull. 	 Exams Quizzes "On-line' reading assignments
	Axial Skeleton II: Mandible, Vertebral Column, Sternum and Ribs	 Describe the features of mandible. Describe the general features of vertebral column. Describe the structure and significance of inter- vertebral discs. Outline the typical parts of the vertebra. Describe briefly main features of regional vertebrae, sacrum & coccyx. Describe briefly the sternum and ribs. 	 Exams Quizzes "On-line' reading assignments

Appendicular	1. Outline the bones of upper limb.	•	Exams
Skeleton I: Bones of	2. Describe the main features of clavicle, scapula & humerus.	•	Quizzes "On-line' reading
Upper Limb	 3. Describe the features of ulna & radius. 4. Outline the general features and name of carpal bones. 		assignments
	5. Describe the features of metacarpal bones and phalanges.		
Appendicular Skeleton II:	 Outline the bones of lower limb. Describe the main features of bones of hip: ilium, ischium, & pubis. Describe the main features of femur & patella. 	• • •	" Exams Quizzes "On-line' reading assignments
Bones of Lower Limb	 4. Describe the features of tibia & fibula. 5. Outline bones of foot and arches of foot. 		assignments
Muscular System	 Outline the types of skeletal muscle. Outline the nomenclature of skeletal muscles. Outline the type of actions of skeletal muscles. 	•	Exams Quizzes "On-line' reading assignments
Muscles of Scalp, Face, & Eye	 Outline the muscles of scalp & face. Outline the muscles of mastication. Outline the extra-ocular muscles of eye. 	•	Exams Quizzes "On-line' reading assignments
Muscles of the Neck	 Outline the main muscles of neck. Outline the muscles of pharynx & larynx. Outline the prevertebral muscles of neck. 	• •	Exams Quizzes "On-line' reading assignments
Muscles of Thoracic, abdominal & Pelvic Walls	 Outline the muscles of thoracic wall. Describe the diaphragm. Outline the muscles of anterior abdominal wall. Describe briefly the perineum. 	• •	Exams Quizzes "On-line' reading assignments
Muscles of upper Limb	 Outline the main muscles of pectoral, shoulder, and scapular region. Outline the muscles of arm, forearm, & hand. 	• •	Exams Quizzes "On-line' reading assignments
Muscles of lower Limb	 Outline the muscles of the gluteal region & back of thigh. Outline the muscles of anterior & lateral compartment of thigh. Outline the muscles of leg. Describe the popliteal fossa. Outline the muscles of foot. 	•	Exams Quizzes "On-line' reading assignments
Body Joints	 S. Outline the muscles of root. 1. Outline the type of body joints. 2. Outline the structure and types of synovial joints. 3. Outline the joints of upper limb (shoulder, elbow, radio-ulnar, wrist, and joints of hand). 4. Outline the joints of lower limb (hip, knee. ankle, and joints of foot). 	•	Exams Quizzes "On-line' reading assignments
	1. Outline the parts of circulatory system.	•	Exams

		2. Briefly describe the pericardium.	• Ouizzog
	Circulatory System I	2. Briefly describe the perical dufin.3. Briefly describe the heart (location, chambers, valves, blood supply).	 Quizzes "On-line' reading assignments
-	Circulatory System II	 Outline the great vessels of heart. Outline the branches of aorta. Outline the vessels of head & neck. Outline the blood vessels of upper & lower limbs. 	 Exams Quizzes "On-line' reading assignments
	Respiratory System I	 Outline the parts of respiratory system. Outline the structure of nasal cavity, nasopharynx, paranasal sinuses. Outline the larynx. 	 Exams Quizzes "On-line' reading assignments
_	Respiratory System II	 Describe briefly the trachea & bronchi. Describe briefly the pleural sac. Describe briefly the lungs. 	Exams Quizzes "On-line' reading assignments
	Digestive System I	 Outline the parts of digestive system. Describe briefly the mouth & oesophagus. Outline the location, parts, openings, and borders of stomach, & peritoneal folds. Introduce parts & functions of small bowel. 	 Exams Quizzes "On-line' reading assignments
	Digestive System II	 Outline the parts, location and function of large intestine. Outline the associated digestive glands (salivary glands, pancreas, liver & gall bladder and their functions). 	 Exams Quizzes "On-line' reading assignments
	Urinary System	 Outline parts of urinary system. Briefly describe the location, gross structure & blood vessels of kidney. Briefly outline the ureter, urinary bladder & male & female urethra. 	 Exams Quizzes "On-line' reading assignments
_	Male Genital System	Outline the parts & functions of male genital system.	 Exams Quizzes "On-line' reading assignments
	Female Genital System	Outline the parts & functions of female genital system.	 Exams Quizzes "On-line' reading assignments
	Nervous System I: The cerebral hemisphere	 Outline the anatomical and functional parts of NS. Outline the parts of CNS (brain & spinal cord). Outline the meninges & ventricles of brain. Outline the lobes & functions of cerebral hemisphere. Outline the sulci, gyri & important functional areas. 	 Exams Quizzes "On-line' reading assignments

	6. Outline the other part of brain (thalamus, hypothalamus, midbrain, pons, medulla oblongata & cerebellum).	
Nervous System II: The spinal cord	 Outline the general features of the spinal cord. Outline its meninges. Discuss the CSF and outline its function. 	 Exams Quizzes "On-line' reading assignments
Nervous System III: The brain stem	 Outline the morphology of the medulla oblongata. Outline the morphology of the pons. Outline the morphology of the midbrain. 	Exams Quizzes "On-line' reading assignments
General Embryology I	1. Embryological terms (sperm, Oocyte, embryo, Zygote, implantation, Conception, blastomeres, Morula, blastocyst, Conceptus primordium, Fetus, abortion, labour).2. Outline the process of spermatogenesis. 3. Outline the process of Oogenesis. 4. Describe the process of fertilization.	 Exams Quizzes "On-line' reading assignments
General Embryology II	 Describe zygote cleavage, formation of blastocyst & implantation (1st week of development). Describe the 2nd week of development. 	 Exams Quizzes "On-line' reading assignments
General Embryology III	1. Describe briefly the 3rd week of development of embryo. 2. Describe briefly the development of embryo from 4th – 8th weeks. 3. Describe fetal membranes & placenta. 4. Describe causes of congenital anomalies. 5. Outline procedures & techniques used to assess fetal status.	 Exams Quizzes "On-line' reading assignments

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their Instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

Special Needs Section: Student Services and Care Unit Tel: 053903333 ext. 4132 / 4583 / 5023 Location: Deanship of Students Affairs Email: stydent@hu.edu.jo

COURSE REGULATIONS

Participation

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student <u>should not miss more than 15%</u> of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance*. It is a student's responsibility to monitor the frequency of their own absences. Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in a non-attendance being recorded.

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

Plagiarism

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples and it applies to all student assignments or submitted work:

- Use of the work, ideas, images or words of someone else without his/her permission or reference to them.
- Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.
- Misrepresentation of the sources that were used.

The instructor has the right to fail the coursework or deduct marks where plagiarism is detected

Late or Missed Assignments

In all cases of assessment, students who fails to attend an exam, class project or deliver a presentation on the scheduled date without prior permission, and/or are unable to provide a medical note, will automatically receive a fail grade for this part of the assessment.

- Submitting a term paper on time is a key part of the assessment process. Students who fail to submit their work by the deadline specified will automatically receive a 10% penalty. Assignments handed in more than 24 hours late will receive a further 10% penalty. Each subsequent 24 hours will result in a further 10% penalty.
- In cases where a student misses an assessment on account of a medical reason or with prior permission; in line with University regulations an incomplete grade for the specific assessment will be awarded and an alternative assessment or extension can be arranged.

Student Complaints Policy

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

COURSE ASSESSMENT

Course Calendar and Assessment

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment as listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

Assessment	Grade Weighting	Deadline Assessment
Exam 1	30%	TBD
Exam 2	30%	TBD
Final Exam	40%	TBD
	7	

Test questions will predominately come from material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. Exam will consist of multiple choice questions for the regular exams and short assay questions for makeup exams (for students with accepted excuses, 0nly documented absences will be considered as per HU guidelines).

Grades are not negotiable and are awarded to the MD program according to the following criteria*:

Grades are not negotiable and are awarded according to the following criteria*:

Letter grade	Description	Grade Points
A+	Excellent	4.00
Α		3.75
A-		3.50
B +	Very Good	3.25
В		3.00
В-		2.75
C+	Good	2.50
С		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

	i incomplete -
Week	Торіс
Week 1	Introduction to Human Anatomy
	Axial Skeleton I: The Skull
Week 2	Axial Skeleton II: Mandible, Vertebral Column, Sternum & Ribs
	Appendicular Skeleton I: Bones of Upper Limb
Week 3	Appendicular Skeleton II: Bones of Lower Limb
	Muscular System
Week 4	Muscles of Scalp, Face, & Eye
	Muscles of the Neck
Week 5	Muscles of Thoracic, abdominal & Pelvic Walls
	Muscles of upper Limb
Week 6	Muscles of lower Limb
	Appendicular Skeleton II: Bones of Lower Limb
Week 7	Body Joints
	Circulatory System I
Week 8	Circulatory System II
	Respiratory System I
Week 9	Respiratory System II
	Digestive System I
Week 10	Digestive System II
	Urinary System
Week 11	Male Genital System
	Female Genital System
Week 12	Nervous System I: The cerebral hemisphere
	Nervous System II: The spinal cord
Week 13	Nervous System III: The brain stem
	General Embryology I
Week 14	General Embryology II
	General Embryology III
i i i i i i i i i i i i i i i i i i i	WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION