General Anatomy (111501104)
Second Semester 2025/2026
Coordinator: Dr. Aseel Abbad

The Hashemite University

الجامعـــــــة
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Deanship of Academic Development
and International Outreach

عمادة التطوير الأكاديمي
والتواصل الدولي

Syllabus: General Anatomy (111501104)
Second Semester
2025/2026

COURSE INFORMATION

Course Name	General Anatomy
Semester	Second
Department	Department of Anatomy, Histology, Physiology & Biochemistry
Faculty	Medicine

Course Code	111501104
Section	General Subjects
Core Curriculum	MD Program
Credit Hours	3
Prerequisites	None
Classroom	Medical school auditorium

Day(s) and Time(s):

Sunday		Anatomy Lect.	Anatomy Lab	Anatomy Lab
Tuesday		Anatomy Lect.	Anatomy Lab	Anatomy Lab
Thursday		Anatomy Lect.	-	-

COURSE DESCRIPTION

1. The course begins with understanding; the definition and significance of anatomy and its subdivisions; the terms of position and movements; and the regional term applied in the study of human gross anatomy.
2. 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 INSTRUCTORS' INFORMATION

Course coordinator:	
Name	**Dr. Aseel Abbad**
Academic Title:	**Assistant Professor of Anatomy and Cell Biology**
Office Location:	**3018, Faculty of Medicine, Hashemite University**
Telephone Number:	
Email Address:	aseel.abbad@hu.edu.jo Teams: aseel.abbad@staff.hu.edu.jo
Office Hours:	**Sunday: 10-12** **Wednesday: 10-12**
Instructors	
Name	**Aseel Abbad**
Academic title	**Assistant professor of Anatomy & Cell Biology**
Office location	**3018, 3rd floor, Ibn Sina Medical Faculties complex**
Email	**Aseel.abbad@hu.edu.jo**
Office hours	**Sunday: 10-12, Wednesday: 10-12**
Name	**Mustafa Yousef**
Name	**Mustafa Saad**
Academic title	**Lecturer of Anatomy**
Office location	**3019, 3rd floor, Ibn Sina Medical Faculties complex**
Email	**Mustafas@hu.edu.jo**
Office hours	**Sunday: 11.30-1.30, Tuesday: 11.30-1.30**

Name **Academic title** **Office location** **Email** **Office hours**	**Razan Sartawi** **Assistant professor of Anatomy** **3016, 3rd floor, Ibn Sina Medical Faculties complex** **Razany@hu.edu.jo** **Sunday: 9-11am, Wednesday: 9-11 am**
Name **Academic title** **Office location** **Email** **Office hours**	**Wala'a Alzboun** **Assistant professor of Anatomy** **3014,3rd floor, Ibn Sina Medical Faculties complex** **wallag@hu.edu.jo** **Sunday: 10-12, Tuesday: 10-12**

REFERENCES AND LEARNING RESOURCES

Text Books	Authors	Edition
Grey's anatomy for students	**Richard Drake**	**4th**
Principles of Human Anatomy.	**Gerard J. Tortora, Mark Nilsen**	**14th**
Clinical Anatomy for Medical Students	**Richard S Snell**	**5th**
Moore's Essential Clinical Anatomy	**K.L. Moore, A. F Dalley, A. M. R Agur**	**8th**
Before we are born	**K.L. Moore, T.V.N. Persaud**	**10th**

STUDENT LEARNING OUTCOMES MATRIX

Program Learning Outcomes	Lecture title	Course Student Learning Outcomes	Assessment Method
MD Program learning outcomes **D1, D5 & E2**	**Introduction to Human Anatomy**	**1. Describe the main approaches to learning human anatomy.** **2. Describe and correctly use basic anatomical terminology.** **3. Describe the anatomical position, body planes and body regions.** **4. Describe the concept of fascia, including fascial compartments, bursae, and potential spaces.** **5. Identify examples of normal anatomical variation and differentiate them from pathological conditions.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

	Axial Skeleton I: The Skull	**1. Outline the main components of the axial skeleton.** **2. Describe the general anatomical features of the skull.** **3. Identify the bones of the skull and describe the major sutures and fontanelles.** **4. Describe the cranial cavity and the base of the skull in brief.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Axial Skeleton II: Mandible, Vertebral Column, Sternum and Ribs	**1. Describe the main anatomical features of the mandible.** **2. Describe the general anatomical features of the vertebral column.** **3. Describe the structure of the intervertebral discs and state their functional significance.** **4. Outline the typical parts of a vertebra.** **5. Describe the main anatomical features of the regional vertebrae (cervical, thoracic, and lumbar), as well as the sacrum and coccyx.** **6. Describe the main anatomical features of the sternum and ribs.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

	Appendicular Skeleton I: Bones of Upper Limb	**1. Outline the bones forming the upper limb.** **2. Describe the main anatomical features of the clavicle, scapula, and humerus.** **3. Describe the main anatomical features of the radius and ulna.** **4. Identify carpal, metacarpal bones and phalanges.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Appendicular Skeleton II: Bones of Lower Limb	**1. Outline the bones forming the lower limb.** **2. Describe the main anatomical features of the hip bone, including the ilium, ischium, and pubis.** **3. Describe the main anatomical features of the femur and patella.** **4. Describe the main anatomical features of the tibia and fibula.** **5. Outline the bones of the foot and identify the arches of the foot.**	• **" Exams** • **Quizzes** • **"On-line' reading assignments**
	Muscular System	**1. Classify skeletal muscles according to their structural and functional characteristics (e.g., shape, fiber arrangement, and number of heads).** **2. Explain the standard anatomical nomenclature used in naming skeletal muscles, including references to location, shape, size, fiber direction, number of origins, and function.** **3. Describe the main types of actions produced by skeletal muscles, including flexion, extension, abduction, adduction, rotation, and stabilization.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Muscles of the head & Neck	**1. Outline the muscles of scalp & face.** **2. Outline the muscles of mastication.** **3. Outline the main muscles of neck.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Muscles of Thoracic, abdominal & Pelvic Walls	**1. Outline the muscles of thoracic wall.** **2. Outline the main anatomical features of the diaphragm.** **3. Outline the muscles of anterior & posterior abdominal wall.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Muscles of upper Limb	**1. Outline the main muscles of pectoral, shoulder, and scapular region.** **2. Outline the muscles of arm, forearm, & hand.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

	Muscles of lower Limb	**1-Outline the muscles of the gluteal region and posterior compartment of the thigh.** **2-Outline the muscles of the anterior and medial compartments of the thigh.** **3-Outline the muscles of the leg.** **4-Describe the boundaries and contents of the popliteal fossa.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Body Joints	**1. Outline the type of body joints.** **2. Outline the structure and types of synovial joints.** **3. Identify the joints of upper limb and their types (shoulder, elbow, radio-ulnar, wrist, and joints of hand).** **4. Outline the shoulder joint** **5. Identify the joints of lower limb (hip, knee. ankle, and joints of foot).** **6. Outline the knee joint.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

	Respiratory System I	**1. Outline the parts of respiratory system.** **2. Outline the structure of nasal cavity, nasopharynx, paranasal sinuses.** **3. Introduce the larynx. No need to discuss the intrinsic muscles, ligaments, and membranes in details.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Respiratory System II	**1. Outline the anatomical features of the trachea & bronchi.** **2. Outline the mediastinum.** **3. Describe briefly the lungs & pleura.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Circulatory System I	**1. Outline the parts of circulatory system.** **2. Briefly describe the heart & Pericardium (location, chambers, valves, blood supply).** **3. Differentiate between systemic & Pulmonary circulations.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Circulatory System II	**1. Outline the great vessels of heart.** **2. Outline the branches of aortic arch.** **3. Outline the main blood vessels of head & neck.** **4. Outline the main blood vessels of upper & lower limbs.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Digestive System I	**1. Identify the region of the abdomen.** **2. Outline the parts of digestive system.** **3. Describe briefly the mouth & oesophagus.** **3. Outline the location, parts, openings, and borders of stomach.** **4. Briefly introduce the peritoneum.** **5. Introduce parts & functions of small bowel.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Digestive System II	**1. Outline the parts, location and function of large intestine.** **2. Outline the associated digestive organs (salivary glands, pancreas, liver & gall bladder and their functions).** **3. Outline the main branches of the abdominal aorta.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

	Urinary System	**1. Outline parts of urinary system.** **2. Briefly describe the location, gross structure & blood vessels of kidney.** **3. Briefly outline the ureter, urinary bladder & male & female urethra.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Female Genital System	**1. Outline the parts & functions of female genital system.** **2. Outline the ovarian vessels.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Male Genital System	**1. Outline the parts & functions of male genital system.** **2. Outline the testicular vessels.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Nervous System 1	**1. Explain the division of the nervous system to CNS and PNS.** **2. Explain autonomic and somatic nervous systems.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

	Nervous system 2	**1. Outline the main parts of the brain: the cerebrum, cerebellum, diencephalon, and brainstem.** **2. Know the lobes of the brain. Concept of ventricles and CSF.** **3. Briefly explain the concept of gyri sulci and functional areas. The student is not required to memorize them or identify them on the brain model.** **3. Explain the gross anatomy of the spinal cord.** **4. The anatomy of spinal nerves.** **5. Anatomy of cranial nerves.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	General Embryology I	**1. Define embryology and distinguish between the main periods of human development, including the pre-embryonic, embryonic, and fetal periods.** **2. Define fertilization and describe its immediate outcomes, including restoration of the diploid chromosome number, determination of genetic sex, and initiation of embryonic development.** **3. Describe the key developmental events of the first week of development, including cleavage of the zygote, formation of the morula and blastocyst, and the onset of implantation.** **4. Describe the key developmental events of the second week of development, including completion of implantation, formation of the bilaminar embryonic disc, and development of the chorionic sac.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	General Embryology II	**1. Describe the major developmental events of the third week of development (gastrulation), including formation of the primitive streak, notochord, intraembryonic mesoderm, somites, and early blood vessels.** **2. Describe the process of neurulation and its role in the formation of the neural tube.** **3. Describe the formation of the allantois and its developmental significance.** **4. Describe the formation of the intraembryonic coelom and its relationship to the future body cavities.** **5. Describe the development of chorionic villi and their role in early maternofetal exchange.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

	General Embryology III	**1. Describe the major developmental events occurring during the 4th to 8th weeks of development, with emphasis on body form changes and organ primordia formation.** **2. Explain the process of embryonic folding (cephalocaudal and lateral folding) and its role in establishing the basic body plan.** **3. Enumerate the principal derivatives of the three embryonic germ layers (ectoderm, mesoderm, and endoderm).** **4. Describe the main developmental characteristics of the fetal period, including growth, functional maturation, and proportional changes.** **5. Enumerate common methods used to estimate the age of the embryo or fetus, such as crown–rump length and ultrasonographic parameters.** **6. Enumerate common methods used to assess the developmental status of the embryo or fetus, including imaging and biochemical screening approaches.**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
		Anatomy practical Labs	
MD Program learning outcomes **D1, D5 & E2**	**Anatomy lab 1** **Skull**	• **Outline the general features of Norma verticals** • **Understand the general features of Norma frontalis** • **Identify the general features of Norma occipitalis** • **Outline the general features of Norma lateralis** • **Understand the general features of Norma basalis externa** • **Discuss the general features of cranial cavity**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Anatomy lab 2 **Mandible Thoracic cage** **Vertebral Column**	• **Outline the general bony features of mandible** • **Understand the general features of cervical vertebrae** • **Outline the general features of thoracic vertebrae** • **Identify the general features of lumber vertebrae** • **Understand the the general features of sacrum** • **Identify the general features of sternum** • **Understand the general features of typical rib**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Anatomy lab 3 **Bones of the upper limb**	• **Identify the shoulder girdle** • **Outline the general bony features of clavicle** • **Understand the general features of scapula** • **Outline the general features of humerus** • **Identify the general features of ulna** • **Understand the general features of radius** • **Identify the general features of hand bones** • **Understand the arrangement of hand bones (carpal, metacarpal& phalamges).**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

	Anatomy lab 4 **Bones of the lower limb**	• **Identify the pelvic girdle** • **Outline the general bony features of hip bone** • **Understand the general features of femur & patella** • **Outline the general features of tibia** • **Identify the general features of fibula** • **Identify the general features of foot bones** • **Understand the arrangement of foot bones (tarsal, metatarsal& phalanges).**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Anatomy lab 5 **Muscles of the upper limb**	• **Identify muscles of the pectoral region** • **Outline muscles of the scapular region & back muscles** • **Understand the arm muscles (front & back)** • **Outline the forearm & hand muscles (front & back)**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Anatomy lab 6 **Muscles of the lower limb**	• **Identify muscles of the front of the thigh** • **Outline muscles of the medial side of the thigh** • **Understand muscles of the posterior compartment of the thigh** • **Outline muscles of the leg (front, & lateral & posterior compartments)**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Anatomy lab 7 **Muscles of Head, Neck & Trunk**	• **Identify muscles of the head** • **Outline muscles of anterior & posterior triangle of the neck** • **Understand muscles of thorax wall** • **Outline the anterior abdominal wall muscles** • **Understand the posterior abdominal wall muscles** • **Identify back muscles**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Anatomy lab 8 **Respiratory system**	• **Understand the nose & paranasal sinuses** • **Identify parts of the pharynx** • **Identify the cartilaginous construction of the larynx** • **Discuss the general features of the trachea & pleura** • **Discuss the general features of the lung & pleura**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

	Anatomy lab 9 **Cardiovascular system**	• **Outline the chambers the heart** • **Identify the surfaces of the heart** • **Understand the borders of the heart** • **Discuss the internal features of the heart** • **Outline the blood supply of the heart**	• **Exams** • **Quizzes** • **"On-line' reading assignments**
	Anatomy lab 10 **GIT Urinary System** **Genital Systems**	• **Identify the different parts of the gastrointestinal tract** • **Outline different parts of the stomach** • **Identify parts of small intestine** • **Outline parts of large intestine** • **Discuss the general features of the liver & biliary system** • **Identify different parts of the urinary system** • **Discuss the general features of the kidney** • **Identify the internal structure of the kidney** • **Outline different parts of male pelvis** • **Outline different parts of female pelvis**	• **Exams** • **Quizzes** • **"On-line' reading assignments**

ACADEMIC SUPPORT

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 fail 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
Exam 1	30%
Exam 2	30%
Final Exam	40%

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
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

Week	Topic
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 Head &neck
	Muscles of Thoracic, abdominal & Pelvic Walls
Week 5	Muscles of upper Limb
	Muscles of lower Limb
Week 6	Body Joints
	Respiratory System I
Week 7	Respiratory System II

	CVS I
Week 8	CVS II
Week 9	Midterm exams
	Digestive System I
Week 10	Digestive System II
	Urinary System
Week 11	Female Genital System
	Male Genital System
Week 12	Nervous System I
	Nervous System II
Week 13	General Embryology I
	General Embryology II, III
Week 14	Practical Exams

Exam type	Week	Number of lectures	Number of Qs	Marks
Midterm exam	Week 9	13 lectures	40 Qs	30
Practical Exam	Week 14	10 labs	30 Qs	30
Final Exam	Week 15	25 lectures	50 Qs	40

General Anatomy Course Outline 2025-2026