



Jordan University of Science and Technology
Faculty of Medicine
Doctor Of Medicine (Md) Department

MED115 Anatomy & Embryology - JNQF Level: 7

Second Semester 2022-2023

Course Catalog

3 Credit Hours. Anatomy and Embryology course consists of both lectures and laboratory sessions. The course is intended to introduce the fundamental concepts of gross anatomy, including definitions, subdivisions, and approaches to studying gross anatomy, medical terminology, and medical imaging techniques. This will be followed by a systematic study of the human body covering the general shape, structure, and location of all organs related to different systems as a basis for the topographic study of anatomy, which will be discussed in subsequent modules. Meanwhile, the functional aspects of human anatomy will be integrated with the structure, and the clinical significance of anatomical relationships will be introduced when appropriate. Additionally, the course will introduce students to basic concepts of general embryology. Hence, students will be introduced to the major events during gametogenesis, fertilization, implantation, and subsequent changes during the first eight weeks of development. Furthermore, mechanisms of morphogenesis and development of congenital anomalies will be discussed as needed for subsequent study of specific embryology related to modules, including the development of the various systems, and associated congenital anomalies.

Text Book

Text Book	
Title	Principles of Human Anatomy
Author(s)	G.J. Tortora
Edition	11th Edition
Short Name	Anatomy Ref #1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Anatomy Ref #2	Before we are born	K.L. Moore and T.V.N. Persaud	8th Edition	
Anatomy Ref #3	Atlas of human anatomy	Frank H. Netter.	8th Edition	

Instructor

Name	Mrs. Hanan Al-Lataifeh
Office Location	-

Office Hours	Sun : 09:30 - 10:30 Mon : 08:30 - 09:30 Mon : 09:30 - 10:30 Tue : 09:30 - 10:30 Thu : 10:30 - 11:30 Thu : 15:30 - 16:30
Email	hananml@just.edu.jo

Instructor	
Name	Prof. Nour Erekat
Office Location	M6L0
Office Hours	
Email	nserekat@just.edu.jo

Class Schedule & Room
<p>Section 1: Lecture Time: Sun, Tue : 10:30 - 11:30 Room: مدرج الفاروق</p> <p>Section 2: Lecture Time: Mon, Wed : 08:30 - 09:30 Room: مدرج الفاروق</p> <p>Section 3: Lecture Time: Mon, Wed : 10:30 - 11:30 Room: مدرج الفاروق</p> <p>Section 4: Lecture Time: Sun, Tue : 12:30 - 13:30 Room: MIDDLE HALL</p> <p>Section 5: Lecture Time: Sun, Tue : 08:30 - 09:30 Room: مدرج الفاروق</p>

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction to the human anatomy	From Anatomy Ref #1
Week 2	Skeletal system	From Anatomy Ref #1 , From Anatomy Ref #3
Week 2	Apppendicular skeleton	From Anatomy Ref #1 , From Anatomy Ref #3
Week 3	Axial skeleton	From Anatomy Ref #1 , From Anatomy Ref #3
Week 3	Articulations	From Anatomy Ref #1 , From Anatomy Ref #3

Week 4	Muscular system (1)	From Anatomy Ref #1 , From Anatomy Ref #3
Week 4	Muscular system (2)	From Anatomy Ref #1 , From Anatomy Ref #3
Week 5	Muscular system (3)	From Anatomy Ref #1 , From Anatomy Ref #3
Week 5	Cardiovascular system (1)	From Anatomy Ref #1 , From Anatomy Ref #3
Week 6	Cardiovascular system (2)	From Anatomy Ref #1 , From Anatomy Ref #3
Week 6	Respiratory system	From Anatomy Ref #1 , From Anatomy Ref #3
Week 7	Digestive system (1)	From Anatomy Ref #1 , From Anatomy Ref #3
Week 8	Digestive system (2)	From Anatomy Ref #1 , From Anatomy Ref #3
Week 8	Urinary system	From Anatomy Ref #1 , From Anatomy Ref #3
Week 9	Male reproductive system	From Anatomy Ref #1 , From Anatomy Ref #3
Week 9	Female reproductive system	From Anatomy Ref #1 , From Anatomy Ref #3
Week 10	Nervous system	From Anatomy Ref #1 , From Anatomy Ref #3
Week 10	Endocrine system	From Anatomy Ref #1 , From Anatomy Ref #3
Week 11	Immune system	From Anatomy Ref #1 , From Anatomy Ref #3
Week 11	Gametogenesis	From Anatomy Ref #2
Week 12	Fertilization, implantation, and first week of development	From Anatomy Ref #2
Week 12	Second week of development	From Anatomy Ref #2
Week 13	3rd-8th weeks of development	From Anatomy Ref #2
Week 13	Mechanisms of morphogenesis and congenital anomalies	From Anatomy Ref #2

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
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Students will define levels of body organization, body systems, and basic anatomical terminology to establish a solid knowledge of terminology crucial for effective communication in the study and practice of anatomy. [1PLO1] [1L7K1]	3%	
Student will describe the organs of the musculoskeletal system and their related joints to develop a comprehensive understanding of the body's support and movement systems. [1PLO1] [1L7K1, 1L7S1, 1L7S2, 1L7C2, 1L7C3]	27%	
Students will explain the organs of the cardiovascular, respiratory, and digestive systems to demonstrate a thorough understanding of their anatomical structures and functions. [1PLO1] [1L7K1, 1L7S1, 1L7S2, 1L7C2, 1L7C3]	30%	
Student will identify the organs of the genitourinary system, neuroendocrine, and immune systems to demonstrate a thorough understanding of their anatomical structures and functions. [1PLO1] [1L7K1, 1L7S1, 1L7S2, 1L7C2, 1L7C3]	27%	
Students will explain gametogenesis, fertilization, implantation, early fetal development, and mechanisms of morphogenesis to enhance their understanding of reproductive biology and congenital anomalies. [1PLO1] [1L7K1, 1L7C2, 1L7C3]	13%	

Relationship to Program Student Outcomes (Out of 100%)													
PLO1	PLO1	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
100													

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7C2	L7C3
24.13	16.8	16.8	21.13	21.13

Policy	
Method of instruction	<p>1- Lectures are interactive sessions to have a general overview of the objectives and discuss certain areas.</p> <p>2- Lectures and/or handouts - are not to replace the recommended textbook, which must be the main resource.</p> <p>3- Labs are group activities where:</p> <p>A-Students prepare lists of structures to be identified.</p> <p>B-Supervised identification will be carried out.</p> <p>C-Group discussions are very much encouraged.</p>
Attendance Policy:	<p>1. The students are expected to attend all classes and lab sessions.</p> <p>2. Repeated tardiness and leaving labs prior to dismissal is a set-up for failure.</p> <p>3. Absence in excess of 20% is defined as unsatisfactory progress and will be reported to the Dean's office.</p>

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