



كلية الصيدلة جامعة الزيتونة الأردنية
Faculty of Pharmacy
Al-Zaytoonah University of Jordan
" نحو تعليم صيدلاني متميز "

Toward Excellence in Pharmaceutical
Education

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Al-Zaytoonah University of Jordan
كلية الصيدلة
Faculty of Pharmacy



"Tradition and Quality"

Detailed Course Description - Course Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-3.0E
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Faculty	Pharmacy	Department	Pharmacy
Course number	0201131	Course title	Anatomy and Histology
Number of credit hours	2	Pre-requisite/co-requisite	Biology

Brief course description

Following an introduction to basic human histology, the anatomy course will provide the student with a basic knowledge of human anatomy using a systemic approach. The students will acquire an understanding of structure as it relates to function, and a working vocabulary of human anatomy, facilitating their introduction into clinical pharmacy and therapeutics.

تتبعاً لمدخل في أساسيات علم الأحياء البشري، سيوفر مساق التشريح للطالب معرفة أساسية عن التشريح البشري باستخدام منهج دراسة أجهزة شكلها وموقعها بوظيفتها. سيكتسب الطلاب فهماً لأشياء تشريح الإنسان، مما يسهل تعريف الطالب وتحضيره لفهم مساقات الصيدلة السريرية.

Course goals and learning outcomes

Goal 1	Provide the students with basic fundamentals of the language of anatomy in addition to histological knowledge of tissues in the human body (microscopic anatomy).
Learning outcomes	1.1 Use correct anatomical terms to describe body directions, regions and body planes or sections for the purpose of identification, effective communication and critical reading of relevant literature. 1.2 Differentiate between and describe the various types of tissues and determine their location in the human body. 1.3 Describe the structure and function of body membranes.
Goal 2	The course will grant students knowledge and understanding to the gross anatomy and histology of the following systems: Integumentary, Skeletal, Muscular, Nervous, Cardiovascular, Respiratory, Digestive, Urinary, Reproductive, Endocrine systems and Sense organs.
Learning outcomes	2.1 Describe the tissues comprising the major layers of the Integumentary system. 2.2 Describe the gross and microscopic anatomy of the various parts of the body systems and identify their location. 2.3 Relate the different systems to each other and describe the integrated relationship between histology and gross anatomy with respect to structure and function.
Textbook	1. Essentials of Human Anatomy and Physiology, 11 th edition, Marieb E.N. (2015) Pearson Education, Inc.
Supplementary references	1. Principles of Anatomy and Physiology, 13th edition, Gerard J. Tortora and Bryan H. Derrickson, 2012. Wiley and Sons, Inc. 2. Human Physiology, 14th edition, Stuart Ira Fox, McGraw Hill, 2016.

Course timeline

Week	Number of hours	Course topics	Pages (textbook)	Notes
01	1 1	The human body: An Overview of Anatomy; Levels of Structural Organization; The Language of	1-3 14-23	Chapter 1



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		Anatomy.		
02	1 1	Body tissues: Epithelial tissue: Special Characteristics of Epithelium; Classification of Epithelium; Connective tissue: Common Characteristics of Connective Tissue; Types of Connective Tissue (Bone (<i>discussed in the Skeletal system part</i>); Cartilage (<i>discussed in the Skeletal system part</i>); Dense Connective Tissue; Loose Connective Tissue; Blood); Muscle tissue (<i>discussed in the Muscular system part</i>); Nervous tissue (<i>discussed in the Nervous system part</i>).	87-97 97-100 337- 340	Chapter 3 Chapter 10
03	1 1	Classification of Body Membranes: Epithelial Membranes (Cutaneous Membrane, Mucous Membranes, Serous Membranes); Connective Tissue Membranes.	109-112	Chapter 4
04	1 1	The Integumentary System: Structure of the Skin; Skin Color; Appendages of the Skin.	112-117 119-124	Chapter 4
05	1 1	Skeletal system: Classification of Bones; Structure of Bone (Gross Anatomy of a Long Bone; Microscopic Anatomy); Cartilage; <i>Brief overview of Axial and Appendicular skeleton.</i>	134-141 146-165	Chapter 5
06	1 1	Muscular system: Muscle Types; Microscopic Anatomy of Skeletal Muscle; Types of Body Movements; <i>Brief overview of Skeletal muscles</i>	181-187 196-200 203-218	Chapter 6
07	1 1	Nervous system: Organization of the Nervous System (Structural and Functional Classification); Nervous Tissue: Structure (Supporting Cells and Neurons); Central Nervous System (Functional Anatomy of the Brain; Protection of the Central Nervous System; Spinal Cord);	225- 234 239-250	Chapter 7
08	1 1	Peripheral Nervous System (Structure of a Nerve; Cranial Nerves and Spinal nerves); Autonomic Nervous System (Somatic and Autonomic Nervous Systems Compared; Anatomy of the Parasympathetic and the Sympathetic Division).	252- 266	Chapter 7
09	1 1	Cardiovascular system: Anatomy of the Heart (Size; Location; and Orientation; Coverings and Walls of the Heart; Chambers and Associated Great Vessels; Heart Valves; Cardiac Circulation);	256-363	Chapter 11
10	1 1	Microscopic Anatomy of Blood Vessels (Tunics; Structural Differences in Arteries, Veins, and Capillaries). Fetal circulation Respiratory system: External Respiration and Internal Respiration; The Nose; Pharynx; Larynx; Trachea; Main Bronchi; Lungs; the Respiratory membrane.	370- 373 436- 444	Chapter 11 Chapter 13
11	1 1	Digestive system: Organs of the Alimentary Canal (Mouth; Pharynx;	463- 476	Chapter 14



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		Esophagus; Stomach; Small Intestine; Large Intestine); Accessory Digestive Organs (Teeth; Salivary Glands; Pancreas; Liver; Gallbladder).		
12	1 1	Urinary system: Kidneys (Location and Structure; Nephrons); Ureters; Urinary Bladder; Urethra.	511- 516 520- 523	Chapter 15
13	1 1	Reproductive system: Male reproductive system (Testes; Duct System; Accessory Glands and Semen; External Genitalia); Female reproductive system (Ovaries; Duct System; Mammary Glands).	538- 543 547- 551	Chapter 16
14	1 1	Endocrine system: The major Endocrine organs (Pituitary Gland and Hypothalamus, Thyroid Gland, Parathyroid Glands, Adrenal Glands, Pancreatic Islets, Pineal Gland, Thymus, Gonads); Other Hormone-Producing Tissues and Organs: Placenta. Lymphatic system: Lymphatic Vessels; Lymph Nodes; Other Lymphoid Organs.	308- 309 312- 330	Chapter 9 Chapter 12
15	1 1	Sense organs: Anatomy of the Eye (External and Accessory Structures; Internal Structures: The Eyeball); Anatomy of the Ear (External, middle and Inner Ear).	278- 287 290- 292	Chapter 8
16	1 1	EXAMS	-	-

Theoretical course evaluation methods and weight	First exam 25% Second exam 25% Final exam 50%
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Approved by head of department		Date of approval	
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Extra information (to be updated every semester by corresponding faculty member)

Name of teacher	Ezeddin Salem Gassar Wassan Ghaleb Jarrar	Office Number	411 215
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Office hours			