Para-Medical Program		
Specialization	المهارات المتخصصه	
Course Number	020800131	
Course Title	علم التشريح	
Credit Hours	(3)	
Theoretical Hours	(3)	
Practical Hours	(0)	

Course description

This course presents a systematic approach to the study of the human body for the allied health students. It develops a basic understanding of the structure of body organs and systems and their interactions. Also, it enhances students understanding of the human body in health and disease.

Course objectives :

Intended Learning Outcomes

Upon the completion of this course the student will be able to:

A. Knowledge & Understanding

- 1. Acquire knowledge and understanding of the structures of the body systems.
- 2. Define anatomy.
- 3. Describe the body organs, their locations, compositions, and specific characteristics.

B. Intellectual skills

- 1. Interpret normal and abnormal anatomy.
- 2. Use anatomical knowledge to predict physiological consequences.

C. Subject specific skills

- 1. Synthesize ideas to make a connection between knowledge of anatomy and physiology and real-world situations, including healthy lifestyle decisions.
- 2. Interpret graphs of anatomical data.

D. Transferable skills

- 1. Develop a vocabulary of appropriate terminology to effectively communicate information related to anatomy.
- 2. Integrate the anatomy of the body with its physiology.

Course outline:

Unit No.	Unit name	Unit Content	Time Needed
1	Introduction to medical terminology	 Discuss the four parts of medical terms Identify the most common prefixes and suffixes. Studying the methods of word buildings Abbreviations related to time, location, and number Abbreviations related to anatomical position, directional terms, body regions, planes and cavities) 	2 hrs
2	Introduction to the human body	 Definition of Anatomy Levels of Body Organization Body Systems and their Organs 	2 hrs
3	The cells and tissues of the body	 Structure of the cell: The cell membrane The cytoplasm and cell organelles The nucleus Body tissues (Epithelium, Connective, Muscular, Nervous) Membranes of the body 	2 hrs
4	Blood, and blood vessels	 Blood Composition of blood: Plasma Erythrocytes(red blood cells) Leukocytes(white blood cells) Thrombocytes (platelets) Blood groups Blood Vessels: Types of blood vessels. Structure of blood vessels. Major Blood Vessels Circulatory routes of blood vessels 	2 hrs
4	The Cardiovascular system	 Heart: Size and location Structure Flow of blood through the heart Blood supply to the heart Conducting system of the heart structure 	2 hrs
5	The Respiratory System	 Structure of the upper respiratory tract Nose and Nasal Cavity Pharynx, Larynx and the Trachea Structure of the lower respiratory tract Bronchi and smaller air passages Respiratory bronchioles and alveoli Lungs: (Position, Structure and Organization) Pleura and pleural cavity Respiration: Muscles of respiration 	4 hrs

6	The nervous System	 Structure of the Nervous System Neuron Central Nervous System Brain Spinal Cord Peripheral Nervous System The Meninges The Cerebrospinal Fluid (Formation, spaces) Autonomic Nervous System Main Features of Sympathetic andParasympathetic System Nerves 	4 hrs
7	Lymph System	 Lymph and Lymph vessels Thoracic Duct (Right and left Lymph Ducts) Lymph nodes(Structure) Lymphatic Organs and Tissue Spleen Thymus gland (also an endocrine gland) Mucosa-associated with lymphoid tissue. 	2 hrs
	The Endocrine System	 Location , Shape, Size and structure of Endocrine Glands: Pituitary Gland Thyroid Gland Parathyroid Glands Adrenal Glands Pancreatic Islets Pineal Gland Ovaries and Testes (also parts of the genitourinary system) 	2 hrs
8	The digestive System	 Structure andorgans of the Digestive system: The upper/ lower tracts Mouth and Salivary glands Pharynx and Esophagus Stomach Small and Large intestines Pancreas Liver Biliary Tract 	4 hrs
9		 Structure andorgans of the Urinary system: Kidneys Ureters Urinary bladder Urethra 	2 hrs
	The Genitourinary System	 Structure andorgans of the Female reproductive system: External genitalia and Internal genitalia Vagina Uterus Fallopian tubes Breast and mammary glands Structure andorgans of the Male reproductive system: Scrotum 	4 hrs

		– Spermatic cords	
		 Spermatic cords Seminal vesicles 	
		- Ejaculatory ducts	
		- Prostate gland	
		- Urethra and penis	
		• Structure of the skin:	
		– Epidermis	
		– Dermis	
10		- Subcutaneous layer	0.1
10	The skin	Accessory organs of the skin:	2 hrs
		– Nails	
		– Hair follicles	
		 Sebaceous glands 	
		– sweat glands	
		• Structure and organs of the Skeletal system:	
		– Bones (types)	
		– Joints, synovial joints	
		• The main division of the skeleton (shape, position, number	
		of bones)	
		• Axial skeleton:	
		– Skull	4 hrs
		– Vertebral column	
11	The	– Thoracic cage	
11	Skeletomuscular system	Appendicular skeleton	
		– Shoulder girdle and upper limb	
		 Pelvic girdle and lower limb 	
		Articulation and movement	
		Muscular system:	
		– Muscles of the face	
		 Muscles of the back 	2 hrs
		 Muscles of the abdominal wall 	
		 Muscles of the pelvic floor 	
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Teaching Methodology:

Lectures. Slides and posters and computers. Models. Coloring sheets. Activities.

References:

- 1. Moini, (2016). Anatomy and Physiology for Health Professionals, (2nd Ed.), Jones and Bartlett learning.
- 2. Moore, Dalley&Agur, (2014). Clinically Oriented anatomy, Lippincott & Williams.
- 3. Peate, I. & Nair, M. (2017). Fundamentals of Anatomy and Physiology: For Nursing and Healthcare Students (2nd Ed)
- 4. Mosby's Anatomy and Physiology Coloring Book (2014), (2nd Ed). Mosby.
- 5. Stanfield, P. S., Hui, Y. H., Cross, H. (2015). Essential Medical Terminology, Jones and Bartlett learning.