



The Hashemite University
Faculty of Allied Health Sciences
Department of Medical Imaging
Course Syllabus

Course information	
Course Title	Cross Sectional Anatomy
Course Code	110508431
Prerequisites	110501215 & 110508332 & 110508334
Credit Hours	3 (2 theory + 3 Lab hours)
Course Description	
This course allows the student to identify different structures of the human body on both computed tomography (CT) and magnetic resonance (MR) images in different planes. This course also offers the student with the opportunity to practice viewing the anatomical structures and organs in both two dimensional (2D) and three dimensional (3D) planes in relative to some internal and external landmarks	
Course Objectives	
By the end of this course, the student is expected to:	
Be able to understand the directional terminology	
Be able to differentiate between the two dimensional and three dimensional images	
Be able to identify different structures of the human body on both computed tomography (CT) and magnetic resonance (MR) images in different planes	
Recommended Textbook	
Title	Sectional Anatomy for Imaging Professionals
Author	Lorrie L. Kelley, Connie M. Petersen
Publisher	Mosby
Year	2007
Edition	Second
Other References	
Title	Pocket Atlas of Sectional Anatomy – Computed Tomography and Magnetic resonance Imaging Vol1, 2, 3
Author	T. B. Moeller, E.Reif
Publisher	Thieme
Year	2007
Edition	Third
Title	Introduction to Sectional Anatomy
Author	Michael E. Madden
Publisher	Lippincott Williams & Wilkins
Year	2008
Edition	Second
Course Contents	
Introduction	<ul style="list-style-type: none"> • Terminology
Brain	<ul style="list-style-type: none"> • Meninges. • Ventricular system. • Brain contents; cerebrum, brain stem, and cerebellum. • Cerebral vascular system.
Cranium and facial Bones	<ul style="list-style-type: none"> • Cranial bone. • Facial bones. • Temporomandibular joint. • Para nasal sinuses • Orbits

Spine	<ul style="list-style-type: none"> • Vertebral column • Spinal cord. • Nerve plexuses
Neck	<ul style="list-style-type: none"> • Neck
Thorax	<ul style="list-style-type: none"> • Bony thorax • Lungs, plural cavity, and bronchi • Mediastinum • Heart and Vasculature
Abdomen	<ul style="list-style-type: none"> • Stomach • Liver • Spleen • Pancreas • Intestines • Urinary System • Vasculature
Pelvis	<ul style="list-style-type: none"> • Bony Pelvis • Muscles • Vasculature
Extremities	<ul style="list-style-type: none"> • Knee Joint • Shoulder Joint

Assessment	
Mid Exam	30%
Lab + In course assessment	30%
Final Exam	40%