

School of Medicine
Format of course plan

Course title: Introduction to anatomical sciences

The audiences: International dentistry students, 1st semester

Total credit: Theory1.1

The time to answer of questions: Sunday 13-15

The time of the lesson: first semester, Saturday 8-10

Teacher: Dr. Ali Ghanbari

Prerequisite: Nothing

General goals:

Understanding the history of anatomy as long as introducing its famous scientists and their main works. Learn the anatomical terminology and the trends for studying gross anatomy.

To describe the essential systems of the body individually like skeletal, muscular, cardiovascular, respiratory, and nervous system.

General goals of sessions:

- 1- Description of the anatomical terminology
- 2- Description of upper limb skeleton
- 3- Description of lower limb skeleton
- 4- Description of vertebral column
- 5- Description of the skull
- 6- Description of muscular system
- 7- Description of nervous system
- 8- Description of nervous system (continued)

- 9- Description of respiratory system
- 10- Description of cardiovascular system
- 11- Description of cardiovascular system (continued)
- 12- Description of digestive system

General goals of first lesson:

Description of the anatomical terminology

Special goals of first lesson:

Briefly describe the history of anatomy and nominate famous anatomist scientists like Galenus, Vesalius, Avicenna, Davinchi and Snell. Give explanations regarding the importance of dissection and visualization in learning tridimensional anatomy. Discuss about two manners of anatomy presentation; systematic and regionals. Explain anatomical position, anatomical planes, anatomical expressions related to these planes. Present anatomical expressions related to movements

General goals of second lesson:

Description of upper limb skeleton

Special goals of second lesson:

Teaching prominent features about scapula, clavicle, humerus, ulna, and radius. Nominating the bones of proximal and distal rows of wrist region, respectively with presenting specialized features for some bones to identify them from each other. Brief explanation regarding metacarpal, phalanges and the sesamoid bones in this region.

General goals of third lesson:

Description of lower limb skeleton

Special goals of third lesson:

Teaching prominent features about hip, femur, tibia, and fibula. Nominating the bones of posterior, middle, and anterior rows of tarsal region, respectively in accompany with depicting specialized features for some bones to identify them from each other. Brief explanation regarding metatarsal, phalanges and the sesamoid bones in this region.

General goals of fourth lesson:

Description of vertebral column.

Special goals of fourth lesson:

Teaching general anatomical features of vertebrae like vertebral foramen, vertebral arch and its components, vertebral body, and intervertebral discs and foramina. Clarifying the first and secondary arches of vertebral column with describing its arches after birth. Identifying specific features own for each region of vertebral column. Description of ribs and sternum.

General goals of fifth lesson:

Description of the skull

Special goals of fifth lesson:

Teaching external features of the skull from anterior, posterior, inferior, internal and lateral views and give some details in this regard such as nominating eminent foramina, sulci, prominences, and specific features that is land mark for distinguishing each individual bone.

General goals of sixth lesson:

Description of muscular system

Special goals of sixth lesson:

Teaching structure of striated muscles, trend of nominating the explain terms related to muscles such as origin, insertion, tendon, ligament, fascia. Introducing prominent muscles in each region of the body. For example sternocleidomastoid and scalenous muscles in the neck. Trapezius and latissimus dorsi in the back and so on.

General goals of seventh lesson:

Description of nervous system

Special goals of seventh lesson:

Briefly describe the neuroanatomical terms such as neurons, axon, dendrites, white and gray matter and their specified forms. Describe the synapse and neurotransmitters. Describe the division of human nervous system physiologically and anatomically. Describe the sub-divisions of C.N.S and P.N.S. Teaching external features of spinal cords such as its length, shape, and fissures. Determining the fasciculus and funiculus of spinal cord with emphasis on their works. Identifying white and gray matters of spinal cord. Description of white and gray matters of brain stem and cerebellum.

General goals of eighth lesson:

Description of nervous system (continued)

Special goals of eighth lesson:

Describe the thalamus, hypothalamus, and cerebrum. Explain the cranial nerves and make some details about their course and works. Explain the spinal nerves, and spinal nerve networks, respectively.

General goals of ninth lesson:

Description of respiratory system

Special goals of ninth lesson:

Describe the superior respiratory components; nasal cavities, pharynx and larynx. Describe the inferior respiratory components; trachea, lungs, pleura and pleural recesses.

General goals of tenth lesson:

Description of cardiovascular system

Special goals of tenth lesson:

Describe the external and internal characteristics of the heart and the arteries and veins of it.

General goals of eleventh lesson:

Description of cardiovascular system (continued)

Special goals of eleventh lesson:

Describe the course and branches of aorta. Describe the superficial veins of the body.

General goals of twelfth lesson:

Description of digestive system.

Special goals of twelfth lesson:

Describe the digestive canal components including oral cavity, esophagus, stomach, small intestine, large intestine. Describe the accessory glands of digestive system including salivary glands, liver, gall bladder and pancreas.

At the end of the class, the student's abilities would be:

- 1- Description of the anatomical terminology
- 2- Description of upper limb skeleton
- 3- Description of lower limb skeleton
- 4- Description of vertebral column
- 5- Description of the skull
- 6- Description of muscular system
- 7- Description of nervous system
- 8- Description of nervous system (continued)
- 9- Description of respiratory system
- 10- Description of cardiovascular system
- 11- Description of cardiovascular system (continued)
- 12- Description of digestive system

References:

Cyrus jalili, Mohamad Reza Salahshoor, Ali Ghanbari, Iraj Rashidi: Genaral Anatomy

Teaching method:

Lecture, Mind map, answer and question, problem solved, group teaching (in practical class)

Educational tools:

Models, fixed brains, Video Projector and Whiteboard

Assessment and evaluation of the test

Considered time For answering	date	Share of total (score (in percent	Method	Test
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5 min for each quiz	Initiation of each session	2	Short answers	Oral Quiz
15 min for each quiz	End of each session	3	Short explanation and Multi-choice	Quiz
20 min	Midterm	6	Multi-choice	Mid term exam
40 min	Final	7	Multi-choice	Final Exam

Classroom roles and student expectations:

The presence of all students in all sessions is mandatory and students must attend the each session .

Lecturer	Topic	Sessions
Dr. Ali Ghanbari	Anatomical terminology	1
Dr. Ali Ghanbari	Upper limb skeleton	2
Dr. Ali Ghanbari	Lower limb skeleton	3

Dr. Ali Ghanbari	Vertebral column	4
Dr. Ali Ghanbari	Skull	5
Dr. Ali Ghanbari	Muscular system	6
Dr. Ali Ghanbari	Nervous system	7
Dr. Ali Ghanbari	Nervous system (continued)	8
Dr. Ali Ghanbari	Respiratory system	9
Dr. Ali Ghanbari	Cardiovascular system	10
Dr. Ali Ghanbari	Cardiovascular system (continued)	11
Dr. Ali Ghanbari	Digestive system	12

Schedule of anatomy of digestive system for international students

Anatomy of digestive system exam99 /11

Theory program of Anatomy of digestive system (Total credit:1.5)

First semester 1399-1400

Instructor: Dr. Ali Ghanbari

Date	Topic	Sessions
99/6/23	Anatomical terminology	1

99/6/30	Upper limb skeleton	2
99/7/6	Lower limb skeleton	3
99/7/13	Vertebral column	4
99/7/20	Skull	5
99/7/27	Muscular system	6
99/8/4	Nervous system	7
99/8/11	Nervous system (continued)	8
99/8/18	Respiratory system	9
99/8/25	Cardiovascular system	10
99/9/2	Cardiovascular system (continued)	11
99/9/9	Digestive system	12