

Degree in Medicine and Surgery

Teaching: **HUMAN ANATOMY I**

SSD: **BIO / 16**

CFU numbers: **7**

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PREREQUISITES

Prerequisites are not required.

LEARNING OBJECTIVES

The aim of the course is to provide the student with the knowledge of the essential characteristics, from a cellular and functional point of view (macroscopic and microscopic anatomy) of essential elements of the human body. The locomotor, cardiovascular and respiratory systems, the oral cavity and the nasal cavity will be taught. The student will learn information about the anatomy of each system aimed at examining the patient, understanding the clinical symptoms and their evolution during a pathological event. These objectives will be achieved through lectures, practical exercises through the use of anatomical models and interactive software designed to facilitate the understanding and learning of the three-dimensionality of the anatomical structures being studied.

LEARNING OUTCOMES

Knowledge and understanding

At the end of this teaching the student will be able:

- To know the anatomical terminology (sections, localization and movement terms).
- To describe the major topographical and functional subdivisions of the human body and superficial anatomy.
- To know the joints, their dynamics and the features of the several joints present in the locomotor system (skull, vertebrae, thorax, lower limb and upper limb).
- To know the morphology of the various bones and muscles that make up the human skeleton and their connections.
- To know the lymphatic and vascular system.
- To know the oral cavity and the structures associated (teeth, tongue, mouth and face muscles, salivary glands).
- To know the nasal cavity.
- To know pharynx, larynx, trachea, lungs, pleura and mediastinum.

Applying knowledge and understanding

At the end of the course the student will be able:

- To know the anatomy of the various structures of the human body.
- To know the interactions between the several structures.
- To use the knowledge gained to understand the clinical symptoms and their evolution during a pathological event.

Communication skills

At the end of the course the student must be able:

- To use the specific anatomical terminology properly.

Making judgments

At the end of the course the student must be able:

- to make general assessments of the topics covered.

COURSE SYLLABUS

- Locomotor system: introduction to the systematic study of the locomotor system, discussion of anatomical terminology (sections, localization and movement terms); description of the major topographical and functional subdivisions of the human body and superficial anatomy.
 - Osteology: morphology of the human skeleton (the skull, the axial and appendicular skeleton)
 - Arthrology: general information about the joints, types of movement, dynamics of the joints, study of the joints of the skull, vertebral column, thorax, upper limb and lower limb.
 - Myology: Shape and function of skeletal muscles, vertebral muscles, neck and trunk muscles, chest and abdomen muscles, upper limb and lower limb muscles.
- Cardiovascular system: General information about the lymphatic and vascular system. Pericardium, heart and blood vessels of the chest and abdomen. Main arteries and veins of the head, neck and limbs.
- Oral cavity: teeth, tongue, mouth and face muscles, salivary glands.
- Nasal cavity and paranasal sinuses.
- Pharynx and larynx, trachea, lungs, pleura and mediastinum.

COURSE STRUCTURE

The course is structured in 64 hours, divided into lessons of 2 or 4 hours according to the academic calendar. Lectures will include theoretical lessons and supplementary seminars on the topics covered. 10 hours of practical exercises that will be carried out in the appropriate anatomy laboratory with the help of anatomical models, are also included.

COURSE GRADE DETERMINATION

The exam is structured with a written test followed by an oral exam. The written test will consist of 50 multiple choice questions and two anatomical figures. In each figure will be indicated at least five structures to be identified. For each correct answer 0.5 points will be awarded, no penalties will be given to wrong answers. The final score of the written test will be given by the sum of the partial scores assigned to each correctly answered question. To access the oral exam the student must have obtained at least 14 points. During the oral exam the knowledge of the topics covered and the ability of the student to apply the acquired knowledge will be evaluated. The learning ability and the quality of the exposure will also be evaluated.

OPTIONAL ACTIVITIES

In addition to the didactic activity the student, during the scheduled reception hours, will have the opportunity to ask the teacher for clarifications on the topics covered.

READING MATERIALS

-BOOK: Gray's Anatomy (latest edition) Churchill Livingstone, Elsevier.

-ATLAS: Atlas of Human Anatomy, Frank H. Netter (latest edition) Elsevier.