



UNICAMILLUS

MSc Medicine and Surgery AA 2025_2026

Teaching: **Human Anatomy I**

SSD: BIOS-12/A (ex BIO/16)

Course Coordinator: [Maria Meringolo](#)

Number of CFU: 10

Professors:

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PREREQUISITES

Prerequisites are not required. Basic knowledge in Histology and Biology are recommended.

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 systems (heart, main vessels), the peripheral nervous system, the oral cavity and the nasal cavity, main anatomical organization of head and neck 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

The expected learning outcomes are consistent with the general provisions of the Bologna Process and the specific provisions of Directive 2005/36/EC. They are located within the European Qualifications Framework (Dublin Descriptors) as follows:

Knowledge and understanding

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

- The anatomical terminology (sections, localization and movement terms).
- The major topographical and functional subdivisions of the human body and superficial anatomy.
- The joints, their dynamics and the features of the joints present in the locomotor system (skull, vertebrae, thorax, lower limb and upper limb).
- The morphology of the various bones and muscles that make up the human skeleton and their connections.
- The lymphatic and vascular system (heart and main vessels).



- The orbit.
- The nasal cavity.
- The oral cavity and the structures associated (teeth, tongue, mouth and face muscles, salivary glands).
- The pharynx and larynx
- The cranial nerves and the main spinal nerve of upper and lower limb and head

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.
- 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.

Communication

To deliver oral presentations in an organized and coherent manner. To use appropriate scientific language in accordance with the topic of discussion.

Learning skills

To recognize the possible applications of acquired skills in one's future career. To evaluate the importance of acquired knowledge in the overall process of medical education.

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 muscles, chest and pelvic wall 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. Main arteries and veins of the head, neck and limbs.
- Peripheral nervous system: spinal nerves and plexuses of head, neck, upper and lower limb. Cranial nerves. Autonomic nervous system : sympathetic and parasympathetic divisions.
- Special sensory receptors and special senses (vision, hearing, taste, and smell)



- Nasal cavity and paranasal sinuses.
- Oral cavity: teeth, tongue, mouth and face muscles, salivary glands.
- Pharynx and larynx.

COURSE STRUCTURE

The course consists of 100 hours of lectures, theoretical–practical exercises, and a 3-hour in-depth seminar on one or more of the topics covered. During the lessons, illustrative images of the various anatomical structures will be projected, and virtual dissection software and anatomical models will be used to facilitate the understanding of their three-dimensional organization. During the practical sessions, which will take place in an equipped classroom, students will be able to use anatomical models reproducing organs and systems, as well as virtual dissection software.

Attendance is mandatory.

COURSE GRADE DETERMINATION

The assessment of learning takes place on the basis of a written exam followed by an oral exam. The written test will consist of a number not less than 40 questions with multiple choice answers (5 options). To access the oral exam the student must have answered at least 60% of the questions correctly. During the oral exam the student's ability to apply and expound knowledge appropriately will be evaluated.

In particular, the exam will be evaluated according to the following criteria:

- Failed: important deficiencies and/or inaccuracies in knowledge and understanding of the topics; limited capacity for analysis and synthesis, frequent generalizations.
- 18-20: knowledge and understanding of the subjects quite sufficient with possible imperfections; ability to analyze, synthesis and sufficient judgment autonomy.
- 21-23: Knowledge and understanding of routine topics; Correct analysis and synthesis skills with coherent logical argumentation.
- 24-26: Fair knowledge and understanding of the topics; good analysis and synthesis skills with rigorously expressed arguments.
- 27-29: Knowledge and understanding of the subjects complete; remarkable analytical skills, synthesis. Good independence of judgment.
- 30-30L: Excellent level of knowledge and understanding of the topics. Considerable analytical and synthesis skills and autonomy of judgment. Arguments expressed in an original way.

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 TEXTBOOKS:

- *Gray's Anatomy – Clinical Practice* (latest edition), Churchill Livingstone, Elsevier.
(Alternative to *Gray's Anatomy: Treatise on Human Anatomy* (3 volumes), G. Anastasi, Edi Ermes)
- for the neuroanatomy section: *Gray's Clinical Neuroanatomy*, by Elliott L. Mancall & David G. Brock (or, alternatively: *Snell's Clinical Neuroanatomy*, 8th Edition, by Ryan Splittgerber, Ph.D.)
- *Atlas of Human Anatomy*, Frank H. Netter (latest edition), Elsevier.