Universidad Zaragoza

**Academic Year/course: 2023/24**

# 29204 - Human Anatomy I

## Syllabus Information

**Academic year:** 2023/24
**Subject:** 29204 - Human Anatomy I
**Faculty / School:** 229 - Facultad de Ciencias de la Salud y del Deporte
**Degree:** 441 - Degree in Human Nutrition and Dietetics
**ECTS:** 6.0
**Year:** 1
**Semester:** First semester
**Subject type:** Basic Education
**Module:**

## 1. General information

The subject responds to the following approaches and objectives, so that the student should know by the end of the term:

- The morphology and structure of healthy person and the nomenclature used in Anatomy.

- The organization by systems and apparatuses, as well as the components that constitute the organism in head, trunk and limbs.

- The Locomotor System: bones, joints, neuromuscular systems and vascularization.

- Splacnology: Location, morphology and structure of the apparatus and systems of the human body (circulatory, respiratory, digestive, urogenital and endocrine).

- Stesiology: Location, morphology, structure and anatomical relationships of the Central, Peripheral and Autonomic nervous systems.

. The basic topographic anatomy of the various regions of the human body.

These approaches and objectives are aligned with the Sustainable Development Goals (SDGs) of the United Nations Agenda 2030 (https://www.un.org/sustainabledevelopment/es/) numbers 3 (Health and well-being) and 4 (Quality education) providing training and competence to contribute to some extent to their achievement.

## 2. Learning results

The learning results of the subject are based on the following fundamental pillars:

Know and use properly and accurately the human anatomical terminology.

Describe the locomotor system: bone system, articular, neuromuscular systems of the different territories of the human body and the vascular elements that support them.

Describe Splacnology: visceral systems and apparatus that integrate the respiratory, digestive, urogenital and endocrine systems.

Describe the human central nervous system and its main functional implications.

Recognize topographically the anatomical elements found in the different regions of the organism.

As an important detail: As students are involved in human nutrition, more emphasis is placed on the digestive system and on the regions of the central nervous system related to anxiety, intake and the endocrine system.

## 3. Syllabus

**LOCOMOTOR SYSTEM:**

TRUNK, UPPER AND LOWER EXTREMITY: Skeleton, neuromuscular systems, sensory innervation, arterial circulation and venous return. Topographic Anatomy.

**ESPLACNOLOGY:**

CARDIO-RESPIRATORY SYSTEM: Heart and lungs. Configuration and organization. Large vessels. Irrigation and innervation of the heart. Pericardium. Pleurae. Topographic study of the thorax and mediastinum.

DIGESTIVE SYSTEM: Oesophagus, Stomach. Small intestine, large intestine and rectum. Liver and biliary tract. Pancreas. Spleen.

URINARY SYSTEM: Kidney. Configuration, organization and relationships. Urinary tract. Ureter, urine bladder and urethra.

GENITAL APPARATUS: Female genital organs: Ovary and Tubal. Uterus, Vagina. Vulva and adnexal glands. Male genitalia: Testicle and scrotum. Seminal tract, prostate and penis.

ENDOCRINE SYSTEM.

TOPOGRAPHY of the abdominal and pelvic cavity.

**CENTRAL NERVOUS SYSTEM:**

SPINAL CORD: Configuration, structure and its envelopes. Afferent/efferent pathways.

TRONCHONENCEPHALUS and CEREBELLUM: Configuration, structure, function and vascularization of both structures.

DIENCEPHALUS: Configuration and components. Thalamus, Hypothalamus, Pituitary, Epithalamus and Subthalamus.

TELENCEPHALUS. Internal and external configuration. Cerebral cortex.

Arterial and venous vascularization of the brain. Ventricular system, meninges and CSF circulation

## 4. Academic activities

Theoretical classes:

Expository, explanatory and/or demonstrative sessions of contents, using the blackboard and/or audiovisual material with computer support.

Practical Classes:

Study of the morphology of the organs and systems of the human body through diagrams, atlases, models and dismountable models.

If necessary, radiological, ultrasound or CT/MRI images will be used.

Autonomous work:

Non-face-to face student time, study and exam preparation.

In figures:

TOTAL number of ECTS = 6 (150 hours), distributed as follows:

- Theoretical face-to-face classes: 1,6 ECTS (40 hours)
- Practical Classes: 0.8 ETCS (20 hours)
- Autonomous work: 3.36 ETCS (84 hours)
- Assessment tests. 0.24 ETCS (6 hours)

The schedule will be presented at the beginning of the term and will be the reference during the academic year.

## 5. Assessment system

The student must demonstrate that they have achieved the expected learning results by means of the following assessment activities.

**WRITTEN THEORY TEST:** Multiple choice test between 20 and 50 questions, with 5 answers per question, where only one is correct. The exam is passed if 70% of the total number of questions are answered correctly.

This test constitutes 80% of the final grade.

**ORAL PRACTICAL TEST:** It will be held in the Practice Room. The adequate follow-up and fulfilment of objectives in the practical classes, exempts the student from this test, obtaining a passing grade. It will only be taken by students who, due to lack of attendance and/or other teaching reasons, are considered eligible for it.

This test constitutes 10% of the final grade.

**CONTINUOUS EVALUATION:** This continuous evaluation is carried out throughout the term and is assessed through regular attendance, attitude, participation and work in theoretical and practical classes.

This test constitutes 10% of the final grade.

**GRADING SYSTEM:**

The numerical grade will be expressed in accordance with art. 5.2 of Royal Decree 1125/2003 of September 5, 2003, which establishes the European credit system and the grading system for official university degrees valid throughout the national territory.