

## **26000 - Human Anatomy**

### **Syllabus Information**

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**Academic Year:** 2021/22

**Subject:** 26000 - Human Anatomy

**Faculty / School:** 127 - Facultad de Ciencias de la Salud

**Degree:** 276 - Degree in Occupational Therapy

**ECTS:** 10.0

**Year:** 1

**Semester:** Annual

**Subject Type:** Basic Education

**Module:**

## **1. General information**

### **1.1. Aims of the course**

The main objective of this course is to acquire a complete knowledge of the human body structure, at macro and microscopic levels, and the availability to explain this knowledge with appropriate terminology and accuracy.

## **2. Learning goals**

## **3. Assessment (1st and 2nd call)**

### **3.1. Assessment tasks (description of tasks, marking system and assessment criteria)**

Continuous assesment will be carried along the course. The assesment tasks will be:

Assesment of theory and practice sessions (15% of course mark): Active participation and assistance to theory and practice sessions will be consider. Those student that do not assit to the 80% of practice sessions will need to pass a Practical Exam in the official exam call.

Fulfillment of the different tasks of each practice session will be evaluated (summaries, video viewing...)

Assesment of theory knowledge (70% of course mark)

- Midterm examns to eliminate part of the course content for final official exams.

- Final official examns: first call in June and second call in September. In each call the whole syllabus content or that part that is not passed in midterm exams will be assessed.

Each exam will consist of 15-30 test multiple choice questions.

Assigment in group (15% of course mark)

An essay about a topic of the course will be carried out by gruops of 4-5 students. Maximun extension will be 25 pages. Presentation, content and bibliography used will be evaluated.

To pass the course the student should pass every assesment tasks (Practice sessions, theory assesment and essay in group).

## **4. Methodology, learning tasks, syllabus and resources**

### **4.1. Methodological overview**

The methodology followed in this course is oriented towards the achievement of the learning objectives, the knowledge of the human body structure. For that a wide range of teaching and learning tasks are implemented, such as lectures, practice sessions, assignments, and autonomous work.

Students are expected to participate actively in the class throughout the semester.

Classroom materials will be available via Moodle. These include a repository of the lecture slides used in class, the course syllabus, as well as other course-specific learning materials.

Further information regarding the course will be provided on the first day of class.

## 4.2. Learning tasks

This is a 10 ECTS course organized as follows:

- Lectures (3 ECTS: 75 hours). Whole group sessions of 50 minutes each one. The professor will explain the theoretical
- Practice sessions for small groups (1 ECTS: 25 hours). Sessions where students will apply theoretical contents learned
- Assignments (1 ECTS: 25 hours). In small groups of 4 or 5, students will prepare an essay (which includes bibliography)

## 4.3. Syllabus

The course will address the following topics:

### SECTION 0. INTRODUCCION

### SECTION 1. CYTOLOGY AND HISTOLOGY

- 1.1- Cell. Definition. Generalities. Components.
- 1.2- Tissues. Concept, types and main characteristics.

### SECTION 2. MUSCULOSKELETAL SYSTEM

- -2.1- Bones: types, structure and functions. Growth and bone reconstruction. Bone tissue.
- -2.2- Vertebral column: Vertebrae.
- -2.3- Vertebral column as a whole. Thoracic cage.
- -2.4- Upper limb bones.
- -2.5- Lower limb bones.
- -2.6- Cranium bones. Cranial roof and base.
- -2.7- Facial skeleton. Facial fossae.
- -2.8- Joints: Generalities. Components and classification.
- -2.9- Skeletal muscles: Structure and muscles types. Tendons. Fasciae and sheaths.

### SECTION 3.- NERVOUS SYSTEM

- Introduction to the Nervous System study. Phylogenesis and Ontogenesis. Nervous tissue. Neurons and glia.
- 3.1- PERIPHERAL NERVOUS SYSTEM
  - 3.1.1- Spinal Nerves. Posterior Ramus.
  - 3.1.2- Cervical plexus.
  - 3.1.3- Brachial plexus.
  - 3.1.4- Intercostal nerves.
  - 3.1.5- Lumbar plexus.
  - 3.1.6- Sacral plexus.
  - 3.1.7- Pudendal plexus. Nerves of the vegetative nervous system.
- 3.2- CENTRAL NERVOUS SYSTEM (CNS)
  - 3.2.1- Spinal cord. Sensory and motor grey matter. White matter. Ascending and descending tracts.
  - 3.2.2- Brainstem.
  - 3.2.3- Cranial Nerves.
  - 3.2.4- Cerebellum.
  - 3.2.5- Diencephalon.
  - 3.2.6- Cerebral cortex. Motor, sensory and association areas.
  - 3.2.7- Pyramidal system. Extrapyramidal system.
  - 3.2.8- Sensory pathways in the CNS.
  - 3.2.9- Meninges. Cerebrospinal fluid.
  - 3.2.10- Vascularization of the CNS.

- 3.3- SENSES
  - 3.3.1- Eyeball
  - 3.3.2- Ear: Sense of hearing and balance.
  - 3.3.3- Sense of smell.
  - 3.3.4- Skin and annexes. Sense of touch.
- 3.4- ENDOCRINE SYSTEM
  - 3.4.1- Pituitary gland. Pineal gland
  - 3.4.2- Thyroid gland. Parathyroid gland. Adrenal glands. Gonads.

#### SECTION 4.- VASCULAR AND VISCERA ANATOMY

- 4.1- CARDIOVASCULAR SYSTEM
- 4.2- RESPIRATORY SYSTEM
- 4.3- UROGENITAL SYSTEM
- 4.5- DIGESTIVE SYSTEM

### 4.4. Course planning and calendar

Calendar for main activities:

- Lectures: 3 hours per week during the first term and 2 hours per week during the second term.
- Practice sessions: 2 hours every two weeks.
- Essay Submission: deadline first working day of April
- Partial Exams along the course
- Exams: Partial exams along the course and two official final exams. First official final exam in June and second official finalexam in September

Further information concerning the timetable, classroom, office hours, assessment dates and other details regarding this course will be provided on the first day of class or please refer to the "Facultad de Ciencias de la Salud" website and Moodle course website.

### 4.5. Bibliography and recommended resources

Course recommended bibliography can be found in:

- <http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=26000>

Other recommended resources:

- Free access Virtual Anatomy Atlas Zygotebody: <https://www.zygotebody.com/>