

## 29204 - Human Anatomy I

### Información del Plan Docente

<b>Academic Year</b>	2018/19
<b>Subject</b>	29204 - Human Anatomy I
<b>Faculty / School</b>	229 - Facultad de Ciencias de la Salud y del Deporte
<b>Degree</b>	441 - Degree in Human Nutrition and Dietetics
<b>ECTS</b>	6.0
<b>Year</b>	1
<b>Semester</b>	First semester
<b>Subject Type</b>	Basic Education

### Module

#### 1.General information

##### 1.1.Aims of the course

##### 1.2.Context and importance of this course in the degree

##### 1.3.Recommendations to take this course

#### 2.Learning goals

##### 2.1.Competences

##### 2.2.Learning goals

##### 2.3.Importance of learning goals

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

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

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

##### 4.1.Methodological overview

The learning process that has been designed for this subject is based on the following:

#### Theoretical Classes:

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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 schemes, atlases, models and demountable models.

If necessary, the study will be completed with radiological, ultrasound or CT / MRI images.

### Autonomous work:

Non-contact student time, study and exam preparation.

### 4.2.Learning tasks

The program offered to the student to help him achieve the expected results includes the following activities: **Theoretical classes** where the locomotor apparatus, the splanchnology and the nervous system of the human body are explained. **The practical classes** are required for the location, recognition and details of these anatomical components. **In addition** to complementary and when circumstances allow it, seminars on problems, cases and current issues related to the subject can be made, in which, with the participation of students, doubts and questions raised in the lectures will be resolved.

### 4.3.Syllabus

LOCOMOTIVE:

General Human Anatomy. Anatomy in Bachelor of Dentistry. Definition, Norms, axes and reference planes. Introduction to the various systems of the body: locomotor, circulatory, respiratory, digestive, urogenital, nervous and endocrine systems.

Skeleton of the trunk. spine, shoulder and pelvic girdle.

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Neuromuscular systems of the back, chest and anterior, lateral walls and the bottom of the abdomen. Roof of the abdomen and pelvic floor. Sensory innervation of the trunk. Blood circulation and venous return of the trunk.

Topographic and applied anatomy of the trunk. Anatomy images.

Skeleton of the upper limb. Joints and ligaments representative.

Brachial plexus.

Study of neuromuscular systems of the upper extremity: ulnar and median nerves, radial nerve, musculocutaneous nerve, circumflex and coracoid.

Arterial and venous blood circulation of the upper limb. Sensory innervation of the upper limb.

Topographical and applicative anatomy of the upper extremity. Imaging anatomy of the upper extremity.

Skeleton lower extremity. Joints and ligaments representative.

Lumbosacral plexus.

Study of the neuromuscular system of the lower extremity: posterior thigh and buttock. Sciatic nerve. Crural and obturator nerves. Internal popliteal sciatic nerve, peroneal nerve and sole.

Arterial and venous blood circulation of the lower extremity. Sensory innervation of the lower limb.

Topographic and applied anatomy of the lower extremity. Anatomy images.

**SPLANCHNOLOGY:**

Heart. Configuration and heart and great vessels organization. Irrigation and innervation of the heart itself. Pericardium.

Lung. Configuration and pulmonary Organization. Pleura.

Topographical study of the thorax. Mediastinum, Timo and Mamas.

Anatomical study of the digestive tract: esophagus, stomach. Thin, large intestine and rectum.

Liver and biliary tract. Pancreas. Spleen.

Anatomical study of the urinary system: Kidney. Configuration, organization and relationships. Urinary tract. Ureter, urinary bladder and urethra.

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Anatomical study of the genital tract: Female Genitalia: Ovary and Fallopian. Uterus Vagina. Vulva and annexed glands. Male genital organs: Testis and bags. Seminal tract, prostate and penis.

Anatomical study of the bodies that constitute the endocrine system.

Topographical study of the abdominal and pelvic cavity.

### CENTRAL NERVOUS SYSTEM

Spinal cord. Configuration, structure and wraps. Afferent / efferent pathways and ascending / descending pathways.

Brainstem. Configuration structure, function and vascularity of the brain stem.

Cerebellum. Configuration, structure, function and vascularization of the cerebellum. Arqui, paleo and neocerebellum and brain stem formations related.

Diencephalon. Diencephalon configuration. Thalamus, hypothalamus, pituitary gland.

Epithalamus: pineal gland. Subthalamus and basal ganglia.

Cerebrum. Internal and external configuration of the cerebrum. Structure of the cerebral cortex. Sensory cortex and cortex effector.

Arterial and venous vasculature of the brain. Ventricular system, meninges and circulation L.C.R

### INTRODUCTION TO THE STUDY OF HEAD AND NECK

Bony structures of the head and craniofacial Pits and mucous membranes. Temporomandibular joint

Neuromuscular systems head and neck

Salivary Glands and visceral structures of the head and neck

Basic vascularization and innervation of head and neck

### 4.4.Course planning and calendar

Calendar of face-to-face sessions and presentation of works The CALENDAR OF PRESENT SESSIONS FOR THE 2016/17 COURSE IS THE FOLLOWING: September 2018: Locomotive Month of October 2018: Locomotor / Spacnology Month of November 2018: Splacnology / Nerveous System Month of December 2018: Basic elements in the anatomy of the head and neck Month of January 2019: Delivery and exhibition of works, seminars and finalization of clinical cases and practices. The subject is developed during the first semester, according to the schedule and the classroom assigned in the Faculty of Health Sciences and Sports. The practical classes are carried out mainly in the dissection

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room. Students will be governed by the current regulations in relation to the dissection practice room.

### **4.5. Bibliography and recommended resources**