

29300 - General Human Anatomy

Syllabus Information

Academic Year: 2020/21

Subject: 29300 - General Human Anatomy

Faculty / School: 229 - Facultad de Ciencias de la Salud y del Deporte

Degree: 442 - Degree in Odontology

ECTS: 6.0

Year: 1

Semester: First semester

Subject Type: Basic Education

Module: ---

1.General information

1.1.Aims of the course

The subject and its expected results respond to the following approaches and objectives:

The student must know thanks to the subject the anatomical elements of the normal human body and:

- The morphology and structure of healthy man, the nomenclature used in Anatomy and terminology.
- The organization by systems and apparatuses, as well as the components that constitute the different systems.
- The Locomotor System: bones, joints, neuromuscular systems and vascularization.
- Splanchnology: Situation, morphology and structure of the various organs, apparatus and systems.
- Aesthesiology: Situation, morphology, structure and anatomical relationships of the Central Nervous System.

The most representative elements in the anatomy of the head and neck, as an introduction to the study of the different systems.

- The basic Topographic Anatomy of the various regions of the human organism.

- Anatomy by images: Recognition of the normal anatomical structures of the human body through the use of images.

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 methodology followed in this course is oriented towards the achievement of the learning objectives. A wide range of

teaching and learning tasks are implemented, such as theory sessions, practice sessions, autonomous work and study, and tutorials.

4.2. Learning tasks

This 6 ECTS (150 hours) course is organized as follows:

- **Theory sessions:** 1.6 ECTS (40 hours). Expository, explanatory and / or demonstrative sessions of contents, using the blackboard and / or audiovisual material with computer support.
- **Practice sessions:** 0.8 ETCS (20 hours). 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 and study:** 3.36 ETCS (84 hours). Non-contact student time, study and exam preparation
- **Tests:** 0.24 ETCS (6 hours).

4.3. Syllabus

This course will address the following topics:

LOCOMOTOR:

- 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.
- 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.
- 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. Diencefalo 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. The 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 topics:

- September: Locomotor October: Locomotor / esplanchnology
- November: esplanchnologia / central nervous system
- December: Introduction to head and neck anatomy
- January: Delivery and exhibition of assignments, seminars and finalization of clinical cases and practices. The chronogram will be published at the beginning of the course and will be the reference during the same. Partial controls of the course can be made at the end of the main blocks of the course alone or grouped according to the development and characteristics of the course (locomotor system, splanchnology, nervous system and introduction to the anatomy of the head and neck). These controls will eliminate course topics for the final exam of the course if its qualification exceeds 70% of the proposed questions.

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 Faculty of Health and Sports Sciences website and Moodle.

4.5.Bibliography and recommended resources

- BB. Drake, Richard L. : Anatomía para estudiantes / Richard L. Drake, A. Wayne Vogl, Adam W. M. Mitchell ; ilustraciones, Richard Tibbitts y Paul Richardson ; fotografías, Ansell Horn ; [revisión científica, Ángel Peña Melián... (et al.)]. - 3ª ed. Ámsterdam : Barcelona ; Madrid [etc.] : Elsevier, D.L. 2015
- BC. Moore, Keith L. Compendio de anatomía con orientación clínica / Keith L. Moore, Anne M.R. Agur ; con la colaboración de Marion Moore, Kam Yu . Barcelona [etc.] : Masson-Williams & Wilkins, 1998
- BC. Netter, Frank H. : Atlas de anatomía humana [6ª ed.] / Frank H. Netter ; [traducción y revisión científica, Víctor Götzens García ; ilustrador médico, Carlos A. G. Machado] . - 6ª ed. Ámsterdam ; Barcelona ; Madrid [etc.] : Elsevier Masson , cop. 2015