

## **25600 - Anatomy I. General anatomy and the anatomy of movement.**

### **Información del Plan Docente**

<b>Academic Year</b>	2017/18
<b>Faculty / School</b>	127 - Facultad de Ciencias de la Salud
<b>Degree</b>	275 - Degree in Physiotherapy
<b>ECTS</b>	12.0
<b>Year</b>	1
<b>Semester</b>	Annual
<b>Subject Type</b>	Basic Education
<b>Module</b>	---

### **1.General information**

#### **1.1.Introduction**

#### **1.2.Recommendations to take this course**

#### **1.3.Context and importance of this course in the degree**

#### **1.4.Activities and key dates**

### **2.Learning goals**

#### **2.1.Learning goals**

#### **2.2.Importance of learning goals**

### **3.Aims of the course and competences**

#### **3.1.Aims of the course**

#### **3.2.Competences**

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

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

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

#### **5.1.Methodological overview**

#### **5.2.Learning tasks**

#### **5.3.Syllabus**

### **SUBJECT PROGRAM**

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### **UNIT 1. Cytology, Histology, Embriology.**

Theme 1-1. Cell: Concept and generalities. Cellular membrane.

Theme 1-2. Cellular cytoplasm and organelles.

Theme 1-3. Cell cycle. Cell division processes.

Theme 1-4. Human tissues.

Theme 1-5. Gametogenesis. Fecundation. Initiation of embryonic development.

Theme 1-6. Embryonic period. Fetal period.

Theme 1-7. Fetal membranes. Amniotic liquid. Placenta.

### **UNIT 2. Anatomy. Introduction and generalities of locomotor apparatus.**

Theme 2-1. Anatomy: Concept and historic references. Anatomic posture. Corporal spindles and corporal planes. Anatomical nomenclature and terminology.

Theme 2-2. Bones. Types of bones. External configuration and internal structure. Periosteum. Bone marrow. Ossification.

Theme 2-3. Joints. Types of joints. Structure, components and classification.

Theme 2-4. Skeletal muscles: Structure and components. Muscular innervation.

Theme 2-5. Peripheral nervous system. Spinal nerves. Components, branches and nervous plexus.

### **UNIT 3. Locomotor apparatus: Trunk and neck.**

Theme 3-1. Vertebral column. Vertebrae. Sacrum and coccyx. The Column as a whole.

Theme 3-2. Bones of the pelvic girdle. Coxal bone.

Theme 3-3. Bones of the thoracic cage. Ribs. Sternum.

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Theme 3-4. Joints and ligaments of the vertebral column.

Theme 3-5. Joints and ligaments of the thoracic cage.

Theme 3-6. Muscles of the back. Muscles of the nape of the neck.

Theme 3-7. Muscles of the neck.

Theme 3-8. Muscles of the thoracic wall. Respiratory muscles. Diaphragm.

Theme 3-9. Muscles of the abdominal wall. Muscles of the pelvic floor.

Theme 3-10. Vessels and nerves of trunk and neck.

### **UNIT 4. Locomotor apparatus: Lower limb.**

Theme 4-1. Bones of the lower limb. Femur, Rotula, Tibia and Fibula.

Theme 4-2. Bones of the lower limb. Bones of the foot.

Theme 4-3. Pelvic joints and pelvic ligaments.

Theme 4-4. Hip joint. Muscles of the hip.

Theme 4-5. Muscles of the thigh.

Theme 4-6. Knee joint.

Theme 4-7. Tibiofibular joints. Ankle and foot joints.

Theme 4-8. Muscles of the leg. Muscles of the foot.

Theme 4-9. Vessels of the lower limb.

Theme 4-10. Nerves of the lower limb.

### **UNIT 5. Locomotor apparatus: Upper limb.**

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Theme 5-1. Bones of the upper limb. Scapular girdle. Humerus.

Theme 5-2. Bones of the upper limb. Bones of the forearm and hand.

Theme 5-3. Joints and muscles of the scapular girdle.

Theme 5-4. Shoulder joint. Muscles of the shoulder.

Theme 5-5. Elbow joint. Radioulnar joints. Muscles of the arm.

Theme 5-6. Wrist joint. Joints of the hand.

Theme 5-7. Muscles of the forearm.

Theme 4-8. Muscles of the hand.

Theme 4-9. Vessels of the upper limb.

Theme 4-10. Nerves of the upper limb.

### **UNIT 6. Locomotor apparatus: Head.**

Theme 6-1. Skull bones. Skull vault and skull basis.

Theme 6-2. Facial bones. Orbit. Nasal cavity. Maxilla. Mandible.

Theme 6-3. Temporomandibular joint. Muscles of the mastication. Suprahyoid muscles.

Theme 6-4. Facial muscles. Mimic muscles.

### **5.4.Course planning and calendar**

### **5.5.Bibliography and recommended resources**