

26000 - Human Anatomy

Syllabus Information

Academic year: 2023/24

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

The subject of Human Anatomy, according to the current curriculum of the Occupational Therapy degree of the University (Plan 276), is considered a basic training subject of the branch of knowledge (FBRC in Spanish) and its contents are necessary for the subsequent development of other subjects of the degree.

Its main objective is that the student knows the macro and microscopic structure of the human body and is able to express this knowledge with appropriate terminology and precision.

Both the approaches and objectives of the subject are aligned with the following Sustainable Development Goals (SDGs) of the United Nations Agenda 2030 (<https://www.un.org/sustainabledevelopment/es/>): Goal 3. Health and wellness, Goal 4: Quality Education. In such a way that the acquisition of the learning results of the subject contribute to its achievement.

2. Learning results

To pass the subject, the student must demonstrate that they have acquired the following learning results:

1. To have learned and be able to use the terminology of the field of Human Anatomy.
2. To have understood and be able to recognize the cellular components and characteristics of the different types of tissues of the human body.
3. To have learned and be able to describe the bones, joints and muscles that move them.
4. To know how to describe the structures and analyse the functions of the different parts that form the Nervous System and the Sense organs.
5. To identify the different viscera, organs and structures that make up the systems and following apparatus: Circulatory, Respiratory, Digestive and Urogenital.
6. To work, individually and in teams, and obtain, analyse, summarize, and interpret information related to Human Anatomy.

3. Syllabus

BLOCK -0- INTRODUCTION

BLOCK -1- CYTOLOGY

1.1- Cell. Definition. General. Components.

1.2- Tissues: concept, varieties and main characteristics.

BLOCK -2 - LOCOMOTOR SYSTEM

2.1- Bones: types, structure and functions. Bone growth and reconstruction.

2.2- Spine. Vertebrae and spine as a whole

2.3- Rib cage

2.4- Bones of the upper extremity

2.5- Bones of the lower extremity

2.6- Bones of the skull. Vault and base of the skull

2.7- Bones of the face. Facial pits

2.8- Joints: General. Components and classification

2.9- Skeletal muscles: Structure and types. Tendons. Fascia and sheaths

BLOCK -3- NERVOUS SYSTEM

3.0.- Introduction to the study of the NS. Phylogeny and Ontogeny. Nervous tissue.

3.1- S.N.PERIPHERAL

3.1.1- Spinal nerves. Rear branches

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 and pudendal plexus

3.1.7- Nerves of the vegetative nervous system

3.2- N.CENTRAL SYSTEM

3.2.1- Spinal cord. Sensory and motor grey matter, white matter and pathways

3.2.2- Brain stem.

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 conduction pathways in the CNS

3.2.9-. Meninges. Cerebrospinal fluid

3.2.10-. CNS vascularization

3.3- SENSES

3.3.1- Eyeball

3.3.2- Ear: Sense of hearing and balance

3.3.3- Sense of smell. Sense of taste

3.3.4- Skin and adnexa. Sense of touch

3.4- ENDOCRINE SYSTEM

3.4.1- Pituitary. Epiphysis

3.4.2- Thyroid. Parathyroid. Adrenal. Gonads

BLOCK -4- SPLACNOLOGY

4.1- CARDIOCIRCULATORY SYSTEM

4.2- RESPIRATORY SYSTEM

4.3- UROGENITAL SYSTEM

4.5- DIGESTIVE SYSTEM

4. Academic activities

The program will be developed from the following learning activities:

- **Theoretical classes** (65 hours):
 - Classroom lectures in which the topics will be presented and doubts that arise during the presentation as well as previous topics will be solved.
- **Problem solving classes and cases** (10 hours):
 - Prior to the class, the student will review material provided by the teacher regarding one of the parts of the syllabus. Subsequently, in class, there will be a joint explanation of the subject and the resolution by students of different problems and proposed cases.
- **Practical classes** in small work groups (25 hours):
 - By means of practical work and activities, on models and images, the theoretical knowledge acquired through lectures will be complemented.
- **Work and other activities** (45 hours):
 - Work and activities to be performed for practical classes and problem solving and case studies
- **Personal study and evaluation (105 hours):**
 - Study of the subject and completion of the evaluation tests.

5. Assessment system

The student must demonstrate that they have achieved the intended learning results through the following assessment activities:

- Evaluation of participation in theoretical and practical classes and case resolution (30% of the final grade)

- Attendance and active participation in the theoretical classes, representing 3% of the final grade.

- Attendance and completion of the activities proposed in the practical classes. It will account for 15% of the final grade. The students who attend less than 80% of the practical classes must also take a Practical Exam in the official exam of the subject.
- Attendance and participation in class activities of problem solving and case studies. It will represent 12% of the final grade. Students who attend less than 80% of these classes must also take an exam on its contents in the official exam of the subject.

- Objective tests of the program content (70% of the final grade)

There will be eliminatory midterm exams of the subject for the official calls exams.

In addition, within each official call (1st and 2nd) there will be a final exam of the whole subject or, if applicable, of the part that has not been eliminated by the mid-term exams.

Each exam, corresponding to each part/midterm, will consist of 15-30 multiple-choice questions with penalties for incorrect answers.

In order to pass the subject the student must have passed each of the parts to be evaluated (evaluation of class participation and objective tests)