

26041 - Human anatomy II

Syllabus Information

Academic year: 2024/25

Subject: 26041 - Human anatomy II

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

Degree: 645 - Degree in Occupational Therapy

ECTS: 6.0

Year: 1

Semester: Second semester

Subject type: Basic Education

Module:

1. General information

In accordance with the new curriculum of the University's Occupational Therapy course, Human Anatomy II, together with Human Anatomy I and Kinesiology, forms the Human Anatomy course, which is considered to be a foundation course whose content is necessary for the subsequent development of other courses in the course. It is, therefore, a basic subject that is taught throughout the first semester of the degree, within the basic training module.

The main aim of Human Anatomy is to familiarise students with the macro and microscopic structure of the human body. Within this, Human Anatomy II will focus on the acquisition of this knowledge in relation to the central nervous system and sensory organs, the endocrine system, the cardiovascular system and the respiratory, digestive, urinary, female genital and male genital apparatus, both in terms of their structure, organisation and arrangement in the different regions of the body, as well as the relationship between their form and function. This subject will enable students to express this knowledge with appropriate terminology and precision.

2. Learning results

In order to pass Human Anatomy II, students must demonstrate the following learning outcomes:

1. Use and master anatomical terminology and concepts.
2. Describe the structures and understand the functions of the different parts that make up the central nervous system and sense organs.
3. Identify and describe the different viscera, organs and structures that make up the systems and apparatus of the human body: Cardiovascular, Respiratory, Digestive and Urogenital, and their topographical relationships.
4. Work individually and in teams to obtain, analyse, synthesise and interpret information relating to human anatomy.

3. Syllabus

Block I. Neuroanatomy of the nervous system and sensory organs.

Introduction to the study of the SN. Structure and components. Development of the nervous system and study of major malformations.

2. Peripheral nervous system. Spinal nerves. Nerve plexuses.

3. Autonomic nervous system. Sympathetic system. Parasympathetic system.

4. The brain. Cerebral hemispheres. Cerebral cortex. Motor, sensory and associative areas.

5. Encephalon. Cerebral hemispheres. Basal nuclei. Substance bank. Limbic system.

6. Encephalon. Diencephalon. Morphology and constitution. Epithalamus, thalamus, hypothalamus and subthalamus.

7. Encephalon. Brain stem. Morphology and external structure.

8. Encephalon. Brain stem. Internal structure and nuclei. Reticular formation.

9. Encephalon. Cranial Nerves. Origin and morphofunctional considerations.

10. Brain. Cerebellum. Morphology and relationships. Cerebellar cortex and nuclei. Functional areas.

11. Encephalon. Meninges. Ventricles. Cerebrospinal fluid.

12. Brain. Vascularisation.

13. Spinal Cord. Gross Anatomy. Vascularisation. Meninges.

14. Spinal Cord. Internal Structure. Systematisation of white and grey matter.

15. Sensory nerve tracts.

16. Motor nerve tracts. Pyramidal System Extrapyramidal System

17. Senses. Eyeball. Visual sense.

18. Senses. The sense of hearing. Sense of hearing and balance.

19. Senses. Sense of smell. Sense of Taste.

Sense of smell. 20. Senses. Skin and adnexa. Sense of touch.

Block II. Endocrine System

21. Pituitary gland. Epiphysis.

22. Thyroid gland. Parathyroid glands. Adrenal glands. Gonads.

4. Academic activities

In order to achieve the proposed learning outcomes, the programme of the course will be developed through the following learning activities:

- Lectures (34 hours):

- o Face-to-face and participatory masterclasses where the topics will be presented and any doubts that may arise during the presentation will be resolved.
- Practical classes (26 hours):
 - o Practical work and activities on models, pictures and visits to the dissecting room will complement the theoretical knowledge acquired in the lectures.
- Private study, tutorials and assessment (90 hours):
 - o Study of the subject
 - o Tutorials: prior request for an appointment by e-mail.
 - o Completion of assessment tests.

5. Assessment system

Students must demonstrate that they have achieved the expected learning outcomes by completing the following assessment activities:

- Continuous assessment:
 - o Written tests of theoretical content (70% of final mark). There will be 2 eliminatory mid-terms in the subject. Each exam will consist of 15-30 single-choice multiple-choice questions with penalties for incorrect answers.
 - o Attendance and active participation in theory classes (10% of final mark).
 - o Attendance and completion of the activities suggested in the practical sessions (20% of the final mark). Students who attend less than 80% of the practical sessions will also be required to take a practical examination as part of the official course examination.
 - o In order to pass the course by continuous assessment, students must pass each of the parts to be assessed (written tests, completion of practical activities and attendance at theory and practical classes).
- Final examination:
 - o Students who have opted for the global test or who have not passed the continuous assessment will be required to take a final examination during the official examination sessions on the theoretical and/or practical content they have not passed during the course, consisting of 15-30 multiple choice questions with penalties for wrong answers to pass the theoretical content and/or a test of 10 short questions on pictures for the practical content.
 - o The passed contents can be used until the 2nd session of the same academic year.

6. Sustainable Development Goals

- 3 - Good Health & Well-Being
- 4 - Quality Education