

26040 - Human anatomy I

Syllabus Information

Academic year: 2024/25

Subject: 26040 - Human anatomy I

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

Degree: 645 - Degree in Occupational Therapy

ECTS: 6.0

Year: 1

Semester: First semester

Subject type: Basic Education

Module:

1. General information

According to the new curriculum of the Occupational Therapy degree course at the University of Zaragoza, Human Anatomy I, together with Human Anatomy II and Kinesiology, make up Human Anatomy, which is considered a fundamental subject whose content is necessary for the subsequent development of other subjects in the course. It is therefore a basic subject, taught during the first semester of the degree, within the basic training module.

The main aim of Human Anatomy is for students to learn about the macro and microscopic structure of the human body. Within this context, Human Anatomy I will focus on the acquisition of this knowledge with regard to the generalities and terminology of human anatomy, the tissues that make up our body and, in particular, the musculoskeletal system, both in terms of its structure, organisation, arrangement in the different regions and the relationship between the form and function of the same, as well as enabling students to express this knowledge with appropriate terminology and precision.

2. Learning results

In order to pass Human Anatomy I the student must demonstrate the following learning outcomes:

1. Understand and be able to use terminology specific to the field of Human Anatomy.
2. Understand and be able to identify the cellular components and characteristics of the different tissue types of the human body.
3. Understand and be able to identify, describe and relate topographically and functionally the bones, joints and muscles that make up the musculoskeletal system and their innervation.
4. Work individually and in teams to obtain, analyse, summarise and interpret information relating to human anatomy.

3. Syllabus

Block I. Anatomy: Introduction and Generalities.

Introduction to Anatomy. Concept of Anatomy. Levels of organisation. Anatomical position. Body axes and planes.

Nomenclature and terminology.

2. General embryology: Gametogenesis. Fertilisation. Embryonic and foetal development.

3. General histology: epithelial, connective, muscular and nervous tissues.

Block II. Apparatus of Movement: General Information.

4. Apparatus of Movement (I). Concept and components. Osteology: skeleton, types of bones, bone tissue, bone growth and reconstruction.

5. The musculoskeletal system (II). Myology: concept, structure and classification of muscles and associated structures.

6. The musculoskeletal system (III). Arthrology: Generalities. Components and classification.

7. Musculoskeletal System (IV). Innervation: Peripheral nervous system. Spinal nerves. Nervous plexuses.

Block III. Musculoskeletal System: Trunk and neck.

8. Spine. Vertebrae. Sacrum and coccyx. Spine as a whole.

9. Rib cage. Ribs. Sternum.

10. Pelvic girdle. Coccyx.

11. Joints and ligaments of the vertebral column.

12. Joints and ligaments of the rib cage.

13. Muscles of the back. Muscles of the neck.

14. Muscles of the neck.

15. Muscles of the chest wall. Respiratory muscles. Diaphragm

16. Muscles of the abdominal wall. Muscles of the pelvic floor.

17. Trunk and neck innervation.

Block IV. Musculoskeletal System: Upper limb.

18. Bones of the shoulder girdle. Humerus.

19. Bones of the forearm and hand.

20. Joints and muscles of the shoulder girdle.

21. Shoulder joint and shoulder muscles.

22. Elbow joints. Radio-ulnar joints. Muscles of the upper arm

23. Wrist joints. Joints of the hand.

24. Muscles of the forearm. Muscles of the hand.

- 25. Innervation of the upper limb. Brachial Plexus.
- Block V.- Musculoskeletal System: Lower limb.
- 26. Femur. Patella. Tibia. Fibula.
- 27. Bones of the foot.
- 28. Joints of the pelvis. Coccyofemoral joint. Muscles of the hip
- 29. Knee joint. Muscles of the thigh.
- 30. Tibioperoneal joints. Ankle and foot joints.
- 31. Muscles of the leg. Muscles of the foot.
- 32. Innervation of the lower limb.

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, participation and completion of the activities proposed in the practical sessions (20% of the final mark). To pass the continuous assessment of practical content, students must attend at least 80% of the practical classes. In order to pass the course, students must pass each of the parts to be assessed (evaluation of participation in theory classes, practical classes and written tests).
- 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 on the theoretical and/or practical content not passed during the course in the official examinations, 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 will be kept until the 2nd examination of the same academic year.

6. Sustainable Development Goals

- 3 - Good Health & Well-Being
- 4 - Quality Education
- 5 - Gender Equality