



Universitat de Lleida

DEGREE CURRICULUM  
**HUMAN BODY'S STRUCTURE 2**

Coordination: AIGUADE AIGUADE, RAMON

Academic year 2023-24

## Subject's general information

<b>Subject name</b>	HUMAN BODY'S STRUCTURE 2			
<b>Code</b>	102701			
<b>Semester</b>	2nd Q(SEMESTER) CONTINUED EVALUATION			
<b>Typology</b>	<b>Degree</b>	<b>Course</b>	<b>Character</b>	<b>Modality</b>
	Bachelor's Degree in Physiotherapy	1	COMMON/CORE	Attendance-based
	Double bachelor's degree: Degree in Nursing and Degree in Physiotherapy	1	COMMON/CORE	Attendance-based
	Double bachelor's degree: Degree in Physical Activity and Sports Sciences and Physiotherapy	1	COMMON/CORE	Attendance-based
<b>Course number of credits (ECTS)</b>	6			
<b>Type of activity, credits, and groups</b>	<b>Activity type</b>	PRAULA		TEORIA
	<b>Number of credits</b>	3		3
	<b>Number of groups</b>	3		1
<b>Coordination</b>	AIGUADE AIGUADE, RAMON			
<b>Department</b>	NURSING AND PHYSIOTHERAPY			
<b>Important information on data processing</b>	Consult <a href="#">this link</a> for more information.			

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
AIGUADE AIGUADE, RAMON	ramon.aiguade@udl.cat	2,5	
MOURE ROMERO, LOURDES	lurdes.moure@udl.cat	3,5	
ROCA CARBONELL, MARÇAL	rocamarcal@gmail.com	6	

## Learning objectives

### General objective

Integrate the anatomy to the clinical practice of physiotherapy and the respective double degrees.

### Specific objectives.

1. Identify anatomical column structures (II) thorax, pelvis and lower limb
2. Determine the principles of functional anatomy that facilitate movement in each joint of, column (II) thorax, pelvis and lower limb
3. Identify by means of palpation the anatomical structures of head, column (II) thorax, pelvis and lower limb
4. Learn the anatomy of the nervous system and its correlation with the rest of musculo-skeletal structures, devices and systems.
5. Knowledge of the internal reality of the musculo-skeletal system through dissection and osteoporosis practices

## Competences

### Specific competences of the Degree:

CE1 To know and understand the morphology, physiology, pathology and behavior of people, both healthy and ill, in the natural and social environment.

### Learning outcomes:

1.1 Identify and describe the elements that constitute the morphology of the human being.

1.2 Differentiate each of the components of the human being from its biochemical level to its systemic level, and its possible alterations

1.3 Recognize the elements that constitute the morphology of the human being through the practical palpation of living subjects

CE2 Know and understand the sciences, models, techniques and instruments on which the physiotherapy is founded, articulated and developed.

### Learning outcomes:

2.1 Understand the general theories, basic and proper of Physiotherapy.

2.5 Know how to use the most common health terminology among health professionals, applied to the physiotherapy model.

CE3 Understand and understand physiotherapeutic methods, procedures and performances, aimed at both the therapeutic technique applied to the pre-education or functional recovery clinic, as well as activities aimed at the promotion and maintenance of health.

## **Learning outcomes:**

3.2 Recognize the general and specific procedures of Physiotherapy.

3.7 Identify the physiological and structural changes that may occur as a result of physiotherapy intervention

## **Double degree in Human Nutrition and Dietetics and Physiotherapy:**

CE4 To know the structure of the human body from the molecular level to the whole organism, in the different stages of life.

## Learning outcomes:

4.1 Identify and describe the elements that constitute the structure of the human being.

4.2 Differentiate each of the components of the human being from the molecular level to the systemic level in the different stages of life.

4.3 Recognize the elements that constitute the morphology of the human being through the practical palpation of living subjects

## **GENERAL COMPETENCES OF THE DEGREE**

CG1 Communicate effectively and clearly, both orally and in writing, with the users of the healthcare system as well as with other professionals

CG4 Respect for the fundamental rights of equality between men and women, for the promotion of Human Rights and the values of a culture of peace and democratic values.

## **Strategic competences of the University:**

CEUdL1 Adequate understanding and oral and written expression of Catalan and Spanish;

CEUdL2 Significant command of a foreign language, especially English;

CEUdL3 Training in the use of new technologies and information and communication technologies;

CEUdL4 Basic knowledge of entrepreneurship and professional environments;

CEUdL5 Essential notions of scientific thought.

## **Subject contents**

SUBJECT 1: Artrology and myology of pelvis, thorax and abdomen. Blood vessels and innervation.

THEME 2: Palpation of the spine, chest and pelvis (II)

THEME 3: Osteology, arthrology and myology of lower extremities. Blood vessels and innervation.

UNIT 4: Palpation of lower extremities.

UNIT 5: Nervous system, descriptive anatomy. Plexuses

UNIT 6: Palpation of the nervous system.

## Methodology

In this subject, the student is the protagonist of the continuous learning throughout the course. During the course, theoretical and practical classes will be combined

The practical classes will be fundamentally palpatory, although practical seminars will also be carried out with classroom exercises, osteoteca sessions and corpse dissection sessions

Attendance to group classes is compulsory to be able to pass the subject

The classes of a large group will be basically descriptive but requesting the participation of the students. Class activities will be performed as a visualization of dissection images to identify muscle and joint structures. Likewise, classroom activities are proposed to facilitate and integrate learning and will have complementary material outside of notes or slides worked in the classroom.

The classes of small group will be devoted essentially to palpation, osteoteca and cadaver dissection. For classes of small group it will be essential to respect the regulations of the different classes such as dissection, osteoteca and palpation. Other activities in the classroom are also planned that allow better learning such as description of bone in osteoteca, explanation of a region for peers and dissection.

For the classes of palpation students will have a list of structures to explore (non-exhaustive list) that will facilitate and guide the matter that is subject to examination.

## Development plan

The subject will be developed through master classes where the whole theoretical part of the syllabus and mainly practical seminars will be taught where it will be taught to feel the different structures studied in the theoretical part.

## Evaluation

The evaluation of the learning will be done in the following way:

**EVALUATION:** The final grade of the course will consist of 2 evaluation activities:

- **THEORY EXAMINATION:** The theoretical and practical knowledge of anatomy, including the seminar contents and transversal competences, will be evaluated by means of a theoretical exam that will count 45% of the final grade. 50-type test exam, with 5 possible options, of which only 1 is correct. Every 3 incorrect questions, one remains correct.
- **PRACTICAL EXAM:** The practical and theoretical knowledge of anatomy, including the contents of the seminars, transversal competences, will be evaluated by means of an oral exam that will count 45% of the final mark. This exam includes 5 short questions about structures and 1 question about the description of an area. The evaluation procedure will be adapted to the UdL regulations and in particular to the FIF.
- **Grupal Work.** 10% of the final grade. This work will consist of an oral presentation of the different anatomical areas, each group will choose an area and will have to present it, this activity will count 10% of the final grade of the subject. The teacher will evaluate the quality of the presentation which will mean the grade of the group work which will affect all the members of the group equally

The final score will be out of the average of the 3 tasks, it is necessary to obtain at least 50% of the maximum possible score in a global way, although in order to be able to do the means it is necessary to have obtained, at the individual level, at least one 50% of the theoretical exam score and 50% in the practical exam.

### **EVALUATION IN THE 2nd CALL**

It is scheduled after the first call and both suspended students can do so, as well as those approved with the intention of raising notes, but in this case the approved waives the note of the first convocation and will only count

the note of the second, being able to suspend. If in the second convocation the note is suspended even though the first one would have passed.

In the case of suspending any of the 2 exams (theory or practice) the entire subject is suspended and the student must enroll and complete the subject. In this case it is not possible to save a note of the partial examinations for other enrollments.

## **Unique evaluation:**

Those students who request it, within the corresponding deadlines, may opt for the single Evaluation. This Assessment will be through the attendance of the theoretical and practical examinations in the first call, on the official dates allocated to them, and with the same punctuation rules indicated for the rest of the students

## Bibliography

### **Bibliography and resources**

- Llusà M, Merí A, Ruano D. Manual y Atlas Fotográfico de Anatomía del Aparato Locomotor. Madrid. Médica Panamericana; 2.004
- Tixa S. Atlas de Anatomía Palpatoria del Cuello, Tronco y de la Extremidad Superior. Masson: 2.007
- Hochschild, J. Anatomía funcional para fisioterapeutas. 1a ed. Manual Moderno; 2017
- Cael, C. Anatomía Funcional: estructura, función y palpación del aparato locomotor para terapeutas manuales. 1a ed. Buenos Aires. Médica Panamericana; 2013
- Welsch U. Histología de Sobotta. Madrid. Médica Panamericana; 2.009
- Sobotta J. Atlas de Anatomía Humana. Madrid. Médica Panamericana; 2.006
- Rohen J, Yokochi C, Lütjen-Drecoll E, 6ª ed. Madrid. Elsevier Science; 2.007.
- Abrahams P, Marks S, Hutching R. Gran Atlas Mc Minn de Anatomía Humana. Barcelona. Océano Mosby; 2.005.
- Drake R. Gray: Anatomía para estudiantes. Madrid. Elsevier, 2.005
- Rouvière H. Anatomía Humana. 11ª ed. Barcelona. Masson: 2.005
- Schüncke, M. Prometheus. Texto y Atlas de Anatomía. Buenos Aires. Médica Panamericana. 2.006
- Testut L. Compendio de Anatomía Descriptiva. Barcelona. Masson; 1.996
- Williams P. Anatomía de Gray. Madrid. Churchill Livingstone; 1.998
- Lippert H. Anatomía: estructura y Morfología del Cuerpo Humano. Madrid. Marban; 2.005

### **ENLLAÇOS D'INTERÉS EN ANATOMIA**

#### **Recursos generals d'anatomia. Atles i llibres on-line**

- <http://www.medicalstudent.com>
- <http://anatomy.uams.edu/anatomyhtml/gross.html>
- <http://www.anatomyatlases.org/AnatomicVariants/AnatomyHP.shtml>
- <http://www.bartleby.com/107/> (Gray's Anatomy)

## **Cross section**

- [http://www.lumen.luc.edu/lumen/meded/grossanatomy/x\\_sec/mainx\\_sec.htm](http://www.lumen.luc.edu/lumen/meded/grossanatomy/x_sec/mainx_sec.htm)
- <http://www.anatomyatlases.org/HumanAnatomy/CrossSectionAtlas.shtml>

## **Radiological Anatomy**

- <http://classes.kumc.edu/som/radanatomy/>
- <http://www.rad.washington.edu/anatomy/index.html>
- <https://www.radiology.wisc.edu/education/resources/learning-materials/>