



Information about the subject

Degree: Bachelor of Science Degree in Podiatry

Faculty: Faculty of Medicine and Health Sciences

Code: 471101 **Name:** Anatomy

Credits: 6,00 **ECTS Year:** 1 **Semester:** 1

Module: BASIC TRAINING

Subject Matter: ANATOMY **Type:** Basic Formation

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning

Languages in which it is taught: Spanish

Lecturer/-s:



Module organization

BASIC TRAINING

Subject Matter	ECTS	Subject	ECTS	Year/semester
ANATOMY	12,00	Anatomy	6,00	1/1
		Anatomy of the Lower Extremity	6,00	1/2
BIOLOGY	12,00	Cellular and Tissular Biology	6,00	1/1
		Microbiology	6,00	1/2
PHARMACOLOGY	6,00	Pharmacology	6,00	2/1
MODERN LANGUAGE	6,00	English	6,00	2/2
STATISTICS	6,00	Biostatistics	6,00	1/1
PSYCHOLOGY	6,00	Psychology	6,00	1/2
PHYSIOLOGY	6,00	Physiology	6,00	1/1
BIOCHEMICALS	6,00	Biophysics and Biochemistry	6,00	1/1
ANTHROPOLOGY	6,00	Anthropology	6,00	1/2

Recommended knowledge

Not required. Knowledge in biology or natural sciences equivalent to the high school level is recommended.



Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 The student knows and discriminates the steps of embryogenesis from gamatogenesis to the complete formation of the embryo.
- R2 Identifies the main concepts that make up anatomical terminology, its foundations and clinical and surgical usefulness.
- R3 Distinguishes the different anatomical musculoskeletal and visceral structures of the human body
- R4 Recognizes anatomical structures in practical work on dead bodies.
- R5 Apply general knowledge of anatomy.
- R6 The student searches for bibliographic information from different sources and knows how to use it in a critical and constructive way.
- R7 Analyses his work critically.



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

BASIC		Weighting			
		1	2	3	4
CB1	Students demonstrate knowledge and understanding in an area of study that is at the core of general secondary education, and is often at a level that, while supported by advanced textbooks, also includes some aspects that involve knowledge from the cutting edge of their field of study.			X	
CB5	Students develop those learning skills necessary to undertake further studies with a high degree of autonomy.			X	
GENERAL		Weighting			
		1	2	3	4
CG1	Students know and apply the theoretical and methodological foundations of Chiropody and Podiatry.			X	
CG2	Students know the structure and function of the human body, especially of the lower limb, semiology, mechanisms, causes and general manifestations of the disease and diagnostic methods of medical and surgical pathological processes, interrelating general pathology with foot pathology.				X
CG9	Students critically assess the terminology, clinical trials and methodology used in podology-related research.		X		
SPECIFIC		Weighting			
		1	2	3	4
CE24	Students know the embryological development in the different stages of formation; human anatomy and physiology. Students identify the different organs, apparatus and systems, vascular and nervous splanchnology; axes and body planes; and specific anatomy of the lower limb.				X



CE27 Students know the anatomical and functional concept of the disease and the classification of diseases. To describe the pathology of the different organs, apparatus and systems. Medical semiology. Dermatology. Rheumatology. Traumatology. Neurology. Endocrinology. Pathological vascular processes. Systemic pathologies with repercussions in the foot.

X

TRANSVERSAL

Weighting

1 2 3 4

CT1 Analytical capabilities

X

CT5 Computer skills related to the field of study

X

CT6 Information management capacity

X

CT7 Problem solving

X

CT9 Teamwork

X

CT10 Interdisciplinary teamwork

X

CT14 Critical Reasoning

X

CT16 Autonomous learning

X



Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	25,00%	Open questions
	40,00%	Tests
	20,00%	Practice (exercises, case studies, problems)
	5,00%	Class participation
	10,00%	Practice exam- technical proficiency testing

Observations

To add the percentages, it is essential to pass each and every one of the assessment instruments. Failure to comply with the rules and deadlines established for the conduct of academic activities will invalidate the grade.

In accordance with the general regulations, only one "Matricula de honor" grade can be granted for every 20 students (not for a fraction of 20, with the exception of the case of groups of less than 20 students in total, in which 1 "MdH" can be given.) A grade of 9 or above is required for this.

MENTION OF DISTINCTION:

According to Article 22 of the Regulations governing the Evaluation and Qualification of UCV Courses, the mention of "Distinction of Honor" may be awarded by the professor responsible for the course to students who have obtained, at least, the qualification of 9 over 10 ("Sobresaliente"). The number of "Distinction of Honor" mentions that may be awarded may not exceed five percent of the number of students included in the same official record, unless this number is lower than 20, in which case only one "Distinction of Honor" may be awarded.

Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:



- M1 Theoretical classes (TC). Training activity preferably oriented to the acquisition of knowledge skills. It is characterised by the fact that students are spoken to. Also called master class or expository class, it refers to the oral exposition made by the teacher, (with the support of a blackboard, computer and cannon for the exposition of texts, graphics, etc.).
- M2 Seminars (S). Training activity preferably oriented to obtain knowledge application and research competences. Knowledge is built through interaction and activity. Consisting of supervised monographic sessions with shared participation (Teachers, students, experts). The size of the group is variable, from a large group to small groups, no less than 6 students for interaction. The evaluation will be made by means of follow-up records by the teacher. Participation and development of problem-solving skills should be taken into account.
- M6 Laboratory Practice (CPL). Training activity of work in groups that is developed in the Laboratory. It includes the sessions where students actively and autonomously develop, supervised by the teacher, laboratory experiments. The size of the group is variable, in a range of 10-20 students.
- M7 Tutorials (T). Set of activities carried out by the teacher with personalised attention to the student or in small groups with the aim of reviewing and discussing the materials and topics presented in the classes, seminars, readings, completion of assignments, etc. The aim is to ensure that education is truly a comprehensive training of the student and is not reduced to a transfer of information. It is, therefore, a personalized relationship of help in which the teacher-tutor attends, facilitates and guides one or more students in the formative process.
- M8 Evaluation (Ev). It is the set of processes that try to evaluate the learning results obtained by the students and expressed in terms of acquired knowledge, capacities, developed skills or abilities and manifested attitudes. It covers a wide range of activities that can be developed for students to demonstrate their training (e.g. written, oral and practical tests, projects or assignments,). It also includes Official Calls.
- M10 Estudio del alumno: Preparación individual de lecturas, ensayos, resolución de problemas, seminarios



IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
Theoretical lessons M1	R1, R2, R5, R6	34,00	1,36
Seminar M2	R2, R5	15,00	0,60
Practice lessons M6	R3, R4	6,00	0,24
Office Hours M7	R5, R7	2,00	0,08
Evaluation M8	R2, R3, R5	3,00	0,12
TOTAL		60,00	2,40

LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
Autonomous work M10	R5, R6, R7	70,00	2,80
Group work M10	R5, R6, R7	20,00	0,80
TOTAL		90,00	3,60



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

Content block	Contents
UNIT I: INTRODUCTION	Anatomy: Concepts, terminology. Historical Review Basic human embryology
UNIT II: LOCOMOTOR	<ul style="list-style-type: none">· Concept: Organization and components: bones, muscles and joints. Tendons, ligaments and fascia.· Bone tissue: bone growth and reconstruction.· Types of joint. Classification and functional dynamics· Spine: Organization. Vertebrae types and differentiation· Ribcage.· Osteology and joints of the upper extremity· Shoulder girdle· Bones of the skull. Vault and skull base. Facial bones.· Trunk Muscles: Retrosoma· Trunk Muscles: Chest and Abdomen· Muscles of Upper Limb· Muscles of Upper Limb II Practices
UNIT III: SPLANCHNOLOGY	<ul style="list-style-type: none">· Heart· Organization and components. Blood Circulation.· Respiratory· Digestive· Urogenital I· Urogenital II· Endocrine I· Endocrine II· Practices



UNIT IV: NERVOUS SYSTEM AND SENSES

- Introduction
- Central and Peripheral: Organization
- Central I
- Central II
- Meninges. Cerebrospinal fluid.
- Peripheral
- Sympathetic, Parasympathetic
- Senses
- Practices

PRACTICES

Practices
I.- P1: Osteoarthrology Practice III.- P2: Osteoarthrology
Practice IIII.- P3: Musculature PracticeIV.- P4: Splachnology
Practice IV.- P5: Neuroanatomy Practice IVI.- P6:
Neuroanatomy Practice IIVII.- P7: Dissection

Temporary organization of learning:

Block of content	Number of sessions	Hours
UNIT I: INTRODUCTION	2,00	4,00
UNIT II: LOCOMOTOR	9,00	18,00
UNIT III: SPLANCHNOLOGY	8,00	16,00
UNIT IV: NERVOUS SYSTEM AND SENSES	6,00	12,00
PRACTICES	5,00	10,00



References

Basic:

Estructura y función del cuerpo humano (15ª Ed.). Patton, Kevin ; Thibodeau, Gary A. Ed. ELSEVIER (2016)
Atlas de anatomía humana, Edición 7 By F.H. Netter Ed. ELSEVIER (2019)
Sobotta. Atlas de anatomía humana vol 1 y 2 Edición 24 By Friedrich Paulsen and Jens Waschke; Edited by Friedrich Paulsen and Jens Waschkey Ed. ELSEVIER (2018)

Complementary:

Netter. Flashcards de anatomía, Edición 5 Edited by John T. Hansen, PhD Ed. ELSEVIER (2020)



Addendum to the Course Guide of the Subject

Due to the exceptional situation caused by the health crisis of the COVID-19 and taking into account the security measures related to the development of the educational activity in the Higher Education Institution teaching area, the following changes have been made in the guide of the subject to ensure that Students achieve their learning outcomes of the Subject.

Situation 1: Teaching without limited capacity (when the number of enrolled students is lower than the allowed capacity in classroom, according to the security measures taken).

In this case, no changes are made in the guide of the subject.

Situation 2: Teaching with limited capacity (when the number of enrolled students is higher than the allowed capacity in classroom, according to the security measures taken).

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject will be made through a simultaneous teaching method combining onsite teaching in the classroom and synchronous online teaching. Students will be able to attend classes onsite or to attend them online through the telematic tools provided by the university (videoconferences). In any case, students who attend classes onsite and who attend them by videoconference will rotate periodically.

In the particular case of this subject, these videoconferences will be made through:

☒ Microsoft Teams

☒ Kaltura



Situation 3: Confinement due to a new State of Alarm.

In this case, the following changes are made:

1. Educational Activities of Onsite Work:

All the foreseen activities to be developed in the classroom as indicated in this field of the guide of the subject, as well as the group and personalized tutoring, will be done with the telematic tools provided by the University, through:

☒ Microsoft Teams

☒ Kaltura

Explanation about the practical sessions:

The practices will be adapted to the possibilities of telematic tools.



2. System for Assessing the Acquisition of the competences and Assessment System

ONSITE WORK

Regarding the Assessment Tools:

☒ The Assessment Tools will not be modified. If onsite assessment is not possible, it will be done online through the UCVnet Campus.

☐ The following changes will be made to adapt the subject's assessment to the online teaching.

Course guide		Adaptation	
Assessment tool	Allocated percentage	Description of the suggested changes	Platform to be used

The other Assessment Tools will not be modified with regards to what is indicated in the Course Guide.

Comments to the Assessment System: