

**1. General information**

Course: HUMAN PHYSIOLOGY
Type: BASIC
Degree: 399 - PODIATRY DEGREE
Center: 16 - FACULTY OF SCIENCES OF THE HEALTH OF TALAVERA
Year: 1

Main language: Spanish
Use of additional languages:
Web site:

Code: 32506
ECTS credits: 6
Academic year: 2022-23
Group(s): 60
Duration: C2
Second language: English
English Friendly: Y
Bilingual: N

Lecturer: IRIANA GALAN ARRIERO - Group(s): 60				
Building/Office	Department	Phone number	Email	Office hours
Facultad de Ciencias de la Salud Despacho 2.8	CIENCIAS MÉDICAS	926051571	Iriana.Galan@uclm.es	Thursday from 9:00 to 15:00 h Make an appointment by email

2. Pre-Requisites

It has not been established previous requirements.

3. Justification in the curriculum, relation to other subjects and to the profession

The study of the physiology of the human body is a subject whose subject is basic and essential in the training of health professionals. This course will allow the student to understand the functions and regulatory mechanisms of the healthy human body, its physiological variations and the changes that occur during the life cycle, which will lay the foundation for understanding and recognizing in higher courses, the biological alterations produced in the disease and to know the mechanisms on which it is possible to be influenced for the recovery of the normality or health. Human physiology is related within the Basic Education of the Degree, with the subjects of human anatomy, human anatomy of the lower limb, biochemistry, pharmacology and psychology. Within Podiatry Sciences, it is related to the subject of foundations of podiatry, biophysics and biomechanics, orthopedics, chiropodology, general pathology, podiatric pathology, dermatology, preventive podiatry and foot care at risk, podiatric surgery, diagnostic imaging and radiation protection, clinical podiatry, sports podiatry, biomechanics applied to sports, ergonomics and sports shoes, pathomechanics and treatment of sports injuries, analysis techniques in sports podiatry and practicum. It contributes with these subjects and subjects of the Degree to achieve the professional skills necessary for quality care, satisfying real and potential health needs.

4. Degree competences achieved in this course**Course competences**

Code	Description
CB01	Prove that they have acquired and understood knowledge in a subject area that derives from general secondary education and is appropriate to a level based on advanced course books, and includes updated and cutting-edge aspects of their field of knowledge.
CB02	Apply their knowledge to their job or vocation in a professional manner and show that they have the competences to construct and justify arguments and solve problems within their subject area.
CB03	Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant social, scientific or ethical issues.
CB04	Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.
CB05	Have developed the necessary learning abilities to carry on studying autonomously
CE01	Know the embryological development in the different stages of formation. The anatomy and human physiology. Study the different organs and systems. Vascular and nervous system. Axes and body planes. Specific anatomy of the lower limb.
CE02	Acquire knowledge about cell and tissue biology. Composition and organization of the matter of living beings. Histology. Genetics.
CE03	Know the subjects of biophysics, physiology and biochemistry related to the human body. Immediate principles. Biochemistry and biophysics of the membranes, muscles and nerves. Acquire knowledge of the functions and regulation of the different organs and systems of the human body

5. Objectives or Learning Outcomes**Course learning outcomes**

Description
Knowledge of the function of human body.
Ability to apply problem solving and decision making.

6. Units / Contents

Unit 1: Overview. Homeostasis.
Unit 2: The cell. Functionality and organization.
Unit 3: Integration, regulation and response.
Unit 4: Transport and defense.
Unit 5: Nutrition and elimination.
Unit 6: Reproduction and hormonal regulation.

ADDITIONAL COMMENTS, REMARKS

At the beginning of the course there will be an informative class to present the teaching guide of the subject.

7. Activities, Units/Modules and Methodology							
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (theory) [ON-SITE]	Lectures	CB01 CB02 CB03 CB04 CB05 CE01 CE02 CE03	1.28	32	Y	N	Final test exam
Workshops or seminars [ON-SITE]	Cooperative / Collaborative Learning	CB01 CB02 CB03 CB04 CB05 CE01 CE02 CE03	0.8	20	Y	Y	Laboratory practices and seminars. Its evaluation will be carried out through the delivery of a portfolio in the last week of the semester with the activities proposed by the professor. Recoverable
Writing of reports or projects [OFF-SITE]	Group Work	CB01 CB02 CB03 CB04 CB05 CE01 CE02 CE03	0.8	20	Y	Y	Carrying out a group work on a physiopathology topic proposed by the professor. Recoverable
Project or Topic Presentations [ON-SITE]	Lectures	CB01 CB02 CB03 CB04 CB05 CE01 CE02 CE03	0.08	2	Y	Y	Oral presentation of group work in class. Recoverable
Study and Exam Preparation [OFF-SITE]	Self-study	CB01 CB02 CB03 CB04 CB05 CE01 CE02 CE03	2.8	70	Y	N	Final test exam
Individual tutoring sessions [ON-SITE]	Guided or supervised work	CB01 CB02 CB03 CB04 CB05 CE01 CE02 CE03	0.08	2	N	-	Tutoration session to resolve doubts
Final test [ON-SITE]	Assessment tests	CB01 CB02 CB03 CB04 CB05 CE01 CE02 CE03	0.16	4	Y	Y	Final test exam. Results will be calculated by the formula: (((Correct answers - (mistakes/2))/Total questions)x10]
Total:			6	150			
Total credits of in-class work: 2.4			Total class time hours: 60				
Total credits of out of class work: 3.6			Total hours of out of class work: 90				

As: Assessable training activity

Com: Training activity of compulsory overcoming (It will be essential to overcome both continuous and non-continuous assessment).

8. Evaluation criteria and Grading System			
Evaluation System	Continuous assessment	Non-continuous evaluation*	Description
Projects	15.00%	15.00%	The group assay will be handed and presented in class
Final test	70.00%	70.00%	Test type questionnaire. The formula to establish the score is: $[(N^{\circ} \text{ correct answers} - (N^{\circ} \text{ wrong answers}/2))/N^{\circ} \text{ total questions}] \times 10$
Assessment of problem solving and/or case studies	15.00%	15.00%	Present a portfolio with the problems and activities proposed in the seminars and laboratory practices. Attendance is compulsory for all scheduled practical activities.
Total:	100.00%	100.00%	

According to art. 4 of the UCLM Student Evaluation Regulations, it must be provided to students who cannot regularly attend face-to-face training activities the passing of the subject, having the right (art. 12.2) to be globally graded, in 2 annual calls per subject, an ordinary and an extraordinary one (evaluating 100% of the competences).

Evaluation criteria for the final exam:

Continuous assessment:

The current rating system will be applied; currently, presently UCLM student evaluation regulations, approved on May 23th, 2022.

The global punctuation will be made by making a weighted average of all the evaluable activities. However, the students must achieve a score of 40% in the final test, to add up all the califications. Attendance at seminars and practices is mandatory.

Non-continuous evaluation:

The current rating system will be applied; currently, presently UCLM student evaluation regulations, approved on May 23th, 2022.

Students who opt for this evaluation system will take a final test, a practical exam and an oral presentation of the assay where it will be evaluated that the student has reached all the competences of the subject.

The calculation of the global punctuation will be calculated by a weighted average of the evaluable activities, however, the students must achieve a score of 40% in each of them.

Specifications for the resit/retake exam:

The same criteria will be followed as in the ordinary convocatory, both continuous and non-continuous evaluation.

The assessment of the assay and of the practices, which have been passed by the student who chooses continuous evaluation, will be kept, up to a maximum of two academic courses from the current course, considering that the practical activities are not modified.

Specifications for the second resit / retake exam:

The same criteria will be applied as in the ordinary convocatory, both continuous and non-continuous evaluation.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Writing of reports or projects [AUTÓNOMA][Group Work]	20
Study and Exam Preparation [AUTÓNOMA][Self-study]	70

Individual tutoring sessions [PRESENCIAL][Guided or supervised work]	2
Final test [PRESENCIAL][Assessment tests]	4
General comments about the planning: The temporal distribution of the different training activities during the course will be adapted to the needs of the students and may vary depending on the degree of achievement by criteria of the teachers. The official academic calendar will be followed at all times.	
Unit 1 (de 6): Overview. Homeostasis.	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	2
Workshops or seminars [PRESENCIAL][Cooperative / Collaborative Learning]	3
Group 60:	
Initial date: 01-02-2023	End date: 10-02-2023
Unit 2 (de 6): The cell. Functionality and organization.	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	6
Workshops or seminars [PRESENCIAL][Cooperative / Collaborative Learning]	4
Group 60:	
Initial date: 13-02-2023	End date: 03-03-2023
Unit 3 (de 6): Integration, regulation and response.	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	6
Workshops or seminars [PRESENCIAL][Cooperative / Collaborative Learning]	3
Group 60:	
Initial date: 06-03-2023	End date: 24-03-2023
Unit 4 (de 6): Transport and defense.	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	6
Workshops or seminars [PRESENCIAL][Cooperative / Collaborative Learning]	4
Group 60:	
Initial date: 27-03-2023	End date: 08-04-2023
Unit 5 (de 6): Nutrition and elimination.	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	6
Workshops or seminars [PRESENCIAL][Cooperative / Collaborative Learning]	3
Group 60:	
Initial date: 10-04-2023	End date: 28-04-2023
Unit 6 (de 6): Reproduction and hormonal regulation.	
Activities	Hours
Class Attendance (theory) [PRESENCIAL][Lectures]	6
Workshops or seminars [PRESENCIAL][Cooperative / Collaborative Learning]	3
Project or Topic Presentations [PRESENCIAL][Lectures]	2
Group 60:	
Initial date: 24-04-2023	End date: 12-05-2023
Global activity	
Activities	hours
Class Attendance (theory) [PRESENCIAL][Lectures]	32
Workshops or seminars [PRESENCIAL][Cooperative / Collaborative Learning]	20
Writing of reports or projects [AUTÓNOMA][Group Work]	20
Study and Exam Preparation [AUTÓNOMA][Self-study]	70
Individual tutoring sessions [PRESENCIAL][Guided or supervised work]	2
Final test [PRESENCIAL][Assessment tests]	4
Project or Topic Presentations [PRESENCIAL][Lectures]	2
Total horas: 150	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
By Gary A. Thibodeau, PhD and Kevin T. Patton,	Estructura y función del cuerpo humano, Edición 15	Elsevier		9788491130819	2016	
Susan E. Mulroney, Adam K. Myers	Netter. Cuaderno de fisiología para colorear	Elsevier		9788413822143	2022	
Guyton and Hall	Tratado de Fisiología Médica	ELSEVIER ESPAÑA		978-84-8174-926-7	2006	
Jesús A. Fernández-Tresguerres Hernández	Fisiología Humana	McGraw-Hill Interamericana		978-84-7615-957-9	1992	
Constanzo, Linda	Fisiología	Elsevier		978-84-16004-66-9	2015	
Tortora, Gerard J; Derrickson	Principios de Anatomía y Fisiología	Medica panamericana		978-607-7743-78-1	2015	
Mulroney, Susan E.; Myers, Adam K.	Netter : Fundamentos de fisiología	Elsevier		978-84-458-2658-4	2016	
By Bruce M. Koeppen, MD, PhD and Bruce A. Stanton, PhD	Berne y Levy. Fisiología	Elsevier		978-84-9113-258-5	2018	