UNIVERSIDAD DE CASTILLA - LA MANCHA

GUÍA DOCENTE

1. General information

Course: PHYSIOLOGY
Code: 34305
Type: BASIC
ECTS credits: 6
Degree: 332 - UNDERGRADUATE DEGREE PROGRAMME IN MEDICINE
Academic year: 2022-23
Center: 9 - FACULTY OF MEDICINE OF CIUDAD REAL
Group(s): 20
Year: 1
Duration: C2
Main language: Spanish
Second language: Spanish
Use of additional languages:
English Friendly: Y
Web site:
Bilingual: N

Lecturer: **SOUHAIL DJEBARI ---** - Group(s): **20**

Building/Office	Department	Phone number	Email	Office hours
Facultad de Medicina Ciudad Real/2.10	CIENCIAS MÉDICAS	96028	Souhail.Djebari@uclm.es	

Lecturer: **LYDIA JIMENEZ DIAZ** - Group(s): **20**

Building/Office	Department	Phone number	Email	Office hours
Facultad de Medicina Ciudad Real/2.11	CIENCIAS MÉDICAS	926295300 ext 6838	lydia.jimenez@uclm.es	

Lecturer: **JUAN DE DIOS NAVARRO LOPEZ** - Group(s): **20**

Building/Office	Department	Phone number	Email	Office hours
Facultad de Medicina Ciudad Real/2.11	CIENCIAS MÉDICAS	926295300 Ext 3240	juan.navarro@uclm.es	

Lecturer: **FRANCISCO JAVIER SANCHO BIELSA** - Group(s): **20**

Building/Office	Department	Phone number	Email	Office hours
Facultad de Medicina Ciudad Real/2.10	CIENCIAS MÉDICAS	926295300 ext 6641	francisco.sancho@uclm.es	

2. Pre-Requisites

Not established

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

Not established

4. Degree competences achieved in this course

Course competences

Code	Description
1.1	Knowledge of cell structure and function.
1.15	Homeostasis
1.17	Handling basic laboratory material and techniques.
1.4	Metabolic regulation and integration.
1.5	To know the basic principles of human nutrition.
1.6	Cellular communication.
1.7	Excitable membranes.
CT01	Proficiency in a second foreign language at level B1 of the Common European Framework of Reference for Languages.
CT03	Good oral and written communication skills.
G07	Understand and recognize the normal structure and function of the human body, at the molecular, cellular, tissue, organic and system levels, in the different stages of life and in both sexes.
G11	Understand and recognize the effects of growth, development and aging on the individual and their social environment.
G36	To be able to formulate hypotheses, collect and critically evaluate information for problem solving, following the scientific method.
G37	To acquire the basic training for research activity.

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Learning to design and organize the work. Acquiring habits of perseverance in the study.

Acquisition of oral and/or written presentation and communication skills.

Additional outcomes

6. Units / Contents

Unit 1: Physiology of the blood and the immune system.

Unit 2: Homeostasis. Physiology of the cell membrane and ionic permeability.

Unit 3: Physiology of excitability and intercellular communication.
Unit 4: General physiology of muscle tissue.
Unit 5: General physiology of sensory receptors

7. Activities, Units/Modules and Methodology

Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	Description
Class Attendance (practical) [ON-SITE]	Practical or hands-on activities		0.6	15	Y	Y	
Class Attendance (theory) [ON-SITE]	Lectures		0.6	15	Y	Y	
Progress test [ON-SITE]	Assessment tests		0.1	2.5	Y	Y	
Final test [ON-SITE]	Assessment tests		0.1	2.5	Y	Y	
Project or Topic Presentations [ON-SITE]	Guided or supervised work		0.6	15	Y	Y	
Problem solving and/or case studies [ON-SITE]	Problem solving and exercises		0.4	10	Y	Y	
Writing of reports or projects [OFF-SITE]	Group Work		0.24	6	Y	N	
Study and Exam Preparation [OFF-SITE]	Self-study		2.56	64	Y	N	
Other off-site activity [OFF-SITE]	Self-study		0.8	20	Y	N	
		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
Progress Tests	50.00%	0.00%	
Final test	20.00%	70.00%	
Assessment of active participation	5.00%	5.00%	
Assessment of problem solving and/or case studies	10.00%	10.00%	
Final test	15.00%	15.00%	
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:

Evaluation criteria for the ordinary call:

Continuous evaluation:

A student enrolled for the first time in a subject has two calls during the academic year:

1. Ordinary presential call: it comprises the continuous evaluation of all theoretical and practical activities reflected in the schedule fulfilling the conditions described in the teaching guide of the subject and the minimum attendance requirements to pass the subject.

2. Extraordinary call: It includes the evaluation of the failed part of the subject in the ordinary call. It will consist of a theoretical exam and/or practical exam, the rest of the scores of the practical part will be those obtained during the course in reports, seminars, presentations, work, participation and attitude or OSCE (Objective Structured Clinical Examination).

In case of failing the subject the first time it is taken, the options for the following academic year will be two of the following three options:

1. Ordinary call: within this call, two modalities can be chosen:

a. Classroom mode: Includes the continuous evaluation of all theoretical and practical activities reflected in the schedule fulfilling the conditions described in the teaching guide of the subject, as if the subject was taken fort the first time, and the grades obtained in the previous year will not be taken into account.

b. Non-attendance mode: It includes the evaluation of only the failed part of the subject during the previous course with a theoretical exam and/or practical exam per semester on the same date as the final exam of each semester. The scores for practical exams other than the practical exam will be those kept from the previous course. This modality can only be chosen in the case of having taken the subject in the ordinary presential call exam in the previous academic year.

2. Extraordinary call: It includes the evaluation of the failed part of the subject in the ordinary call either of the current academic year, if the student has opted for the ordinary presential call, or of the previous academic year, in the rest of the cases. It will consist of a theoretical and/or practical exam, the rest of the evaluation of the practical part will be those of the current or previous course. In the case of not having taken the ordinary presential exam in the current or previous academic year, the scores of previous exams will not be taken into account, since they will be kept only for one academic year.

3. Special final call: This includes the evaluation of the failed part of the subject in the previous year. This call can only be requested in the case of key subjects. It will consist of a theoretical and/or practical exam, the rest of the scores of the practical part will be those of the previous course. In the case of not having taken the ordinary presential exam in the current or previous course, the scores of previous exams will not be considered, since they will be kept only for one academic course.

These conditions will only be maintained in the academic year consecutive to the ordinary presential exam of a subject. The scores of the practical or theoretical part passed will only be kept if the minimum attendance requirements to pass the subject described in the electronic guide have been met.

In case that the subject is not passed in the second academic year, the same biannual cycle criteria described for the first and second year of enrollment will be the same in the third and successive odd numbered years of enrollment.

ORDINARY PRESENTIAL CALL:

Theoretical evaluation:

70% distributed in:
- 50% module exams
- 20% final semester exams

To pass the course it will be necessary to obtain half of the 70%, which represents at least 3.5 points in the theoretical part of the 10 total points of the course.

Evaluation of practices, presentations, problems, work, participation, and attitude:

30% valued jointly as follows:

- Practical exam: 15%.
- Practical reports: 10%.
- Participation and attitude: 5%.

To pass the subject it will be necessary to obtain half of the 30%, which represents at least 1.5 points in the practical part of the 10 total points of the course.

EXTRAORDINARY CALL, SPECIAL FINAL CALL, NON-ATTENDANCE MODE:

Theoretical evaluation: exam with 70% value. To pass the subject it will be necessary to obtain half of the 70%, which represents at least 3.5 points in the theoretical part of the 10 total points of the course.

In case of having passed the theoretical part in the previous course, the score obtained in the last exam will be maintained.

Practical evaluation: to pass the subject it will be necessary to obtain half of the 30%, which represents at least 1.5 points in the practical part of the 10 total points of the course.

There will be a practical exam and the results of the rest of the practical exams of the ordinary presential exam, either from the current year or the previous year, will be taken into account.

Non-continuous evaluation:

Evaluation criteria not defined

9. Assignments, course calendar and important dates

Not related to the syllabus/contents

Hours	**hours**
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	15
Class Attendance (theory) [PRESENCIAL][Lectures]	15
Progress test [PRESENCIAL][Assessment tests]	2.5
Final test [PRESENCIAL][Assessment tests]	2.5
Project or Topic Presentations [PRESENCIAL][Guided or supervised work]	15
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	10
Writing of reports or projects [AUTÓNOMA][Group Work]	6
Study and Exam Preparation [AUTÓNOMA][Self-study]	64
Other off-site activity [AUTÓNOMA][Self-study]	20

Unit 1 (de 5): Physiology of the blood and the immune system.

Group 20:

Initial date: 06-02-2023 **End date:** 24-02-2023

Unit 2 (de 5): Homeostasis. Physiology of the cell membrane and ionic permeability.

Group 20:

Initial date: 27-02-2023 **End date:** 17-03-2023

Unit 3 (de 5): Physiology of excitability and intercellular communication.

Group 20:

Initial date: 20-03-2023 **End date:** 14-04-2023

Unit 4 (de 5): General physiology of muscle tissue.

Group 20:

Initial date: 17-04-2023 **End date:** 05-05-2023

Unit 5 (de 5): General physiology of sensory receptors

Group 20:

Initial date: 08-05-2023 **End date:** 26-05-2023

Global activity

Activities	hours
Class Attendance (practical) [PRESENCIAL][Practical or hands-on activities]	15
Class Attendance (theory) [PRESENCIAL][Lectures]	15
Progress test [PRESENCIAL][Assessment tests]	2.5
Final test [PRESENCIAL][Assessment tests]	2.5
Project or Topic Presentations [PRESENCIAL][Guided or supervised work]	15
Problem solving and/or case studies [PRESENCIAL][Problem solving and exercises]	10
Writing of reports or projects [AUTÓNOMA][Group Work]	6
Study and Exam Preparation [AUTÓNOMA][Self-study]	64
Other off-site activity [AUTÓNOMA][Self-study]	20
Total horas:	150

10. Bibliography and Sources

Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Bear M.F	Neurociencia. La Exploración del Cerebro	Lippincontt Williams and Wilkins.		8416353611	2016	
Best and Taylor	Bases fisiológicas de la práctica médica	Panamericana		978-950-06-0253-2	2010	Bbliografía de referencia
Fox, Stuart Ira	Fisiología humana	McGraw-Hill Interamericana		6071514134	2017	Bbliografía de referencia
Guyton, Arthur C.	Tratado de fisiología médica	Elsevier		8413820138	2021	Bbliografía de referencia
Mulroney, S.E.;	NETTER FUNDAMENTOS DE FISIOLOGIA	Elsevier		9788445802007	2011	Bbliografía complementaria, excelentes ilustraciones
Purves, D	Neurociencia	Editorial Médica Panamericana		8491107622	2021	Bbliografía de referencia
Rhoades, Rodney A.	Fisiología médica	Lippincontt Williams and Wilkins		8417033653	2019	
Silverthorn, Dee Unglaub (1948-)	Fisiología humana : un enfoque integrado	Editorial Médica Panamericana		9786078546220	2019	Bbliografía de referencia