



## 1. General information

Course: ANIMAL PHYSIOLOGY

Type: CORE COURSE

Degree: 402 - UNDERGRADUATE DEGREE PROGRAMME IN BIOTECHNOLOGY

Center: 601 - E.T.S. AGRICULTURAL ENGINEERS AND MOUNTS AB

Year: 2

Main language: Spanish

Use of additional  
languages:

Web site:

Code: 60612

ECTS credits: 6

Academic year: 2021-22

Group(s): 10

Duration: First semester

Second language: English

English Friendly: Y

Bilingual: N

Lecturer: MARIA DEL ROCIO FERNANDEZ SANTOS - Group(s): 10				
Building/Office	Department	Phone number	Email	Office hours
Facultad de Farmacia. Despacho 3.2.	CIENCIA Y TECNOLOGÍA AGROFORESTAL Y GENÉTICA	CIENCIA Y TECNOL8296	mrocio.fernandez@uclm.es	
Lecturer: OLGA GARCÍA ÁLVAREZ - Group(s): 10				
Building/Office	Department	Phone number	Email	Office hours
Agrónomos CR/IREC	CIENCIA Y TECNOLOGÍA AGROFORESTAL Y GENÉTICA	926052868	Olga.Garcia@uclm.es	
Lecturer: ANA JOSEFA SOLER VALLS - Group(s): 10				
Building/Office	Department	Phone number	Email	Office hours
ETSIAMB	CIENCIA Y TECNOLOGÍA AGROFORESTAL Y GENÉTICA	926052922	anajosefa.soler@uclm.es	Request an appointment by email

## 2. Pre-Requisites

No special requirement

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

The basic objective is for the student to study the mechanisms that govern the different organic functions of animals, as well as their various forms of regulation and control. This will provide the fundamental knowledge so that the student can understand the contents of other subjects later.

## 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
CE08	Know and understand the physiological foundations and their regulation in the plant and animal field.
CG02	Capacity for analysis and synthesis.
CG03	Ability to work in multidisciplinary teams collaboratively and with shared responsibility.
CT01	Know a second foreign language.
CT02	Know and apply the Information and Communication Technologies.
CT03	Use correct oral and written communication.
CT04	Know the ethical commitment and professional deontology.

## 5. Objectives or Learning Outcomes

Course learning outcomes
Description
Know the operation of the different systems and apparatus that make up animal organisms, as well as their regulation.
Apply knowledge of the physiology of organisms to explain the causes of disease.
Have an integrated vision of the ability of organisms to adapt to changes in the internal or external environment.
Know the ranges of normal values of the main functional parameters and be able to use the main techniques for measuring their function.

## 6. Units / Contents

Unit 1:

Unit 2:

Unit 3:  
Unit 4:  
Unit 5:  
Unit 6:  
Unit 7:  
Unit 8:

#### 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	CE08 CG02 CG03 CT01 CT02 CT03 CT04	1.2	30	Y	N	Theoretical classes will be taught by expository method. Technologies such as clickers to assess the development of the classes will be used.
Laboratory practice or sessions [ON-SITE]	Guided or supervised work	CE08 CG02 CG03 CT01 CT02 CT03	0.7	17.5	Y	Y	Realization of practices in laboratory or simulators
Group tutoring sessions [ON-SITE]	Group tutoring sessions	CE08 CG03	0.2	5	Y	Y	Group tutorials will be held in classes of activities. Via of games will take hold and resolve doubts about the theoretical contents
Project or Topic Presentations [ON-SITE]	Individual presentation of projects and reports	CE08 CG02 CG03 CT01 CT02 CT03	0.15	3.75	Y	Y	The reports of the practices which will be carried out in class
Practicum and practical activities report writing or preparation [OFF-SITE]	Self-study	CE08 CG02 CG03 CT01 CT02 CT03	1.2	30	Y	N	Memories of all the practices of the course
Study and Exam Preparation [OFF-SITE]	Self-study	CB01 CB02 CB03 CB04 CB05 CE08 CG02 CT01 CT02 CT04	2.4	60	N	-	
Progress test [ON-SITE]	Assessment tests	CB01 CB02 CB03 CB04 CB05 CE08 CG02 CT01 CT03 CT04	0.15	3.75	Y	N	A test will be performed in the middle of semester that you can release matter for the ordinary. The second test will take place on the day of Ordinary
<b>Total:</b>			<b>6</b>	<b>150</b>			
<b>Total credits of in-class work: 2.4</b>			<b>Total class time hours: 60</b>				
<b>Total credits of out of class work: 3.6</b>			<b>Total hours of out of class work: 90</b>				

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
Assessment of active participation	15.00%	0.00%	It will be valued through clickers and games and other activities proposals in virtual campus. The valuation obtained in this item will be saved for the next 2 courses.
Practicum and practical activities reports assessment	15.00%	30.00%	A report will be made of all the practices given in the subject for those students who have attended such activities. Those students who do not attend themselves and therefore considered non-continuous evaluation, will be examined in the final test of all the contents of the practices. The assessment obtained in the practices is will save for the next 2 courses.
Test	70.00%	70.00%	Continuous evaluation: 2 tests will be carried out. The first of topics 1 to 5 which can be released for the ordinary call provided that the student obtains a note of 4 or higher. For those students who have Ooce the matter has been released, the day of the ordinary call will perform a second test of the contents of topic 6 at 8. With the grade obtained in the 2 tests and always having obtained a minimum of a 4 between the 2, they will be average with the rest of the evaluable activities. The student who has not Released material in the first test will be evaluated in the ordinary call for a single test, taking average with the rest of assessable activities if she has obtained a grade minimum of 4. Non-continuous evaluation: the student in non-continuous evaluation a single test will be examined in the ordinary call making average with the rest of evaluable activities if it has obtained a minimum grade of 4.
<b>Total:</b>	<b>100.00%</b>	<b>100.00%</b>	

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:**

Students who have released subject with obtaining a 4 in the first test of topics 1 to 5 will only have to examine the Topics 6 to 8 in the test that will be held in the ordinary call. If the mean between the two tests is at least 4, they will be measured with the rest of assessable activities (assessment with use in class, preparation of practical reports and assessment tests). Students who have not released the subject in the first test will have to examine all the theoretical contents in the call ordinary making average with the rest of the activities from obtaining a 4.

To pass the course, it will be necessary to obtain 5 points through the sum of all the evaluation systems (assessment with in class, preparation of practical reports and evaluation tests).

**Non-continuous evaluation:**

It will be considered that a student follows the non-continuous evaluation when he has presented less than 50% of the evaluable activities. In this case, to pass the course it will be necessary to take a single theoretical and practical test in the ordinary call. Obtaining a minimum of 4 in each part (theory and practice) will allow to average both parts To pass the course, it will be necessary to obtain 5 points through the sum of all the evaluation systems (preparation of reports of practical and assessment tests).

**Specifications for the resit/retake exam:**

Students who do not pass the subject in the ordinary call, will be able to examine all the theoretical contents of the subject in the extraordinary call. The evaluation obtained in the items elaboration of practical reports and participation with use in class will be saved for this call and during the 2 academic years. To pass the course, it will be necessary to obtain 5 points through the sum of all the evaluation systems (evaluation of participation with achievement in class, evaluation of practical reports and evaluation test) in continuous evaluation and for non-continuous evaluation (elaboration of practical reports and assessment tests).

**Specifications for the second resit / retake exam:**

Only students who meet the requirements set out in the current Student Assessment Regulations of the University of Castilla-La Mancha, which will be evaluated according to the criteria applied in the extraordinary call.

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours
Unit 1 (de 8):	
Comment: The planning of the subject will be posted on the virtual campus	

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Silverthorn	Fisiología Humana	Panamericana			2014	
García Sacristan, Albino	Fisiología Animal	Tébar Flores			2018	
Cunningham	Fisiología Veterinaria	Elsevier			2003	
Peter Zao	Physioex	Pearson			2012	