

**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:** 2023-24**Group(s):** 10**Duration:** First semester**Second language:** English**English Friendly:** Y**Bilingual:** N**Lecturer:** ANA DIVISÓN HERNÁNDEZ - Group(s): 10

Building/Office	Department	Phone number	Email	Office hours
	CIENCIA Y TECNOLOGÍA AGROFORESTAL Y GENÉTICA		Ana.Divison@uclm.es	

Lecturer: ANA JOSEFA SOLER VALLS - Group(s): 10

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ETSIAMB	CIENCIA Y TECNOLOGÍA AGROFORESTAL Y GENÉTICA	926052922	anajosefa.soler@uclm.es	Friday from 9:00 to 11:00. Contact us beforehand by email to confirm an appointment.

2. Pre-Requisites

No special requirement

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

The basic objective is for students 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 them with the fundamental knowledge to be able to understand the contents of other subsequent subjects.

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**

Have an integrated vision of the ability of organisms to adapt to changes in the internal or external environment.

Apply knowledge of the physiology of organisms to explain the causes of disease.

Know the operation of the different systems and apparatus that make up animal organisms, as well as their regulation.

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: Introduction****Unit 2: Nervous system****Unit 3: Cardiovascular system. Blood****Unit 4: Respiratory system****Unit 5: Urinary system**

Unit 6: Endocrine system**Unit 7: Reproduction system****Unit 8: Digestive system****Unit 9: Practices****Unit 9.1** Nervous and cardiovascular**Unit 9.2** Blood and renal**Unit 9.3** Endocrine**Unit 9.4** Reproduction**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 using an expository method. Technologies such as clickers will be used to assess the development of the classes.
Laboratory practice or sessions [ON-SITE]	Practical or hands-on activities	CE08 CG02 CG03 CT01 CT02 CT03	0.7	17.5	Y	Y	Practical work in the laboratory or with simulators. The evaluation of the practicals is compulsory, averaging with the rest of the assessable items with a minimum mark of 4.
Group tutoring sessions [ON-SITE]	Group tutoring sessions	CE08 CG03	0.2	5	Y	N	Group tutorials will be held in the activity classes. Games will be used to reinforce and resolve doubts about the theoretical content.
Project or Topic Presentations [ON-SITE]	Individual presentation of projects and reports	CE08 CG02 CG03 CT01 CT02 CT03	0.15	3.75	Y	N	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	Papers will be presented and presented in class at a conference.
Study and Exam Preparation [OFF-SITE]	Self-study	CB01 CB02 CB03 CB04 CB05 CE08 CG02 CT01 CT02 CT04	2.4	60	N	-	Time spent by students for study and test preparation
Formative Assessment [ON-SITE]	Assessment tests	CB01 CB02 CB03 CB04 CB05 CE08 CG02 CT01 CT03 CT04	0.15	3.75	Y	Y	There will be 2 evaluation tests (partial). The second test will take place on the day of the ordinary exam. The percentage of each test is proportional to the number of subjects to be assessed. If the subject is not passed by partial tests, you can choose to take a final exam in the extraordinary call.
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
Assessment of active participation	15.00%	0.00%	It will be evaluated by means of clickers in classes and games such as clicker competitions, physiobingo, mini-congress, etc...
Practical exam	15.00%	15.00%	Several tests will be carried out on the virtual campus in which the contents derived from the practicals will be evaluated. In addition, students will be able to explain the scripts of the practicals before they start. This will be added to the rest of the evaluable activities as long as the average of all the work derived from the practicals reaches at least a score of 4. Those students who do not attend any of the practicals without a justified reason or who do not attend them continuously, will be examined by means of an oral exam and in the laboratory. For those students who are repeaters, it will not be necessary to do the practicals for 2 consecutive years as long as they have been done previously. they have been done previously. However, it will be necessary to be assessed in the same way as for the continuous assessment in order to pass the course.
			Continuous assessment: there will be 2 tests. The first test will be eliminatory with a value of 4. The second test will be carried out on the day of the ordinary one. It will be added to the rest of the evaluable activities as long as the average of the 2 tests

Test	70.00%	85.00%	reaches at least a score of 4. Non-continuous assessment: the student in non-continuous assessment will take a single test of the whole theory in the ordinary exams. It will be added to the rest of the evaluable activities as long as it reaches a minimum score of 4.
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:

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:

A student will be considered to be following non-continuous assessment when he/she has expressed interest in changing from continuous to non-continuous or has not followed continuous assessment since the beginning of the subject. In this case, in order to pass the subject, it will be necessary to take a single theoretical and practical (oral) test in the ordinary exam session. Obtaining at least a 4 in each part (theory and practice) will allow the sum of both parts to be added together.

In order to pass the course it will be necessary to obtain 5 points through the sum of all the evaluation systems (theoretical and practical evaluation tests and evaluation of class performance).

Specifications for the resit/retake exam:

Students who do not pass the course in the ordinary exam will be able to take the exam of all the theoretical and practical contents of the course in the extraordinary exam. If in the ordinary exam the practical part has been graded with more than 4, this mark can be taken into account for the extraordinary exam. With a mark lower than 4 the student will have to evaluate the practical part in the extraordinary exam (orally in the case of students in non-continuous assessment), obtaining at least a 4 in each part (theory and practical) will allow both parts to be added together.

To pass the course it will be necessary to obtain 5 points through the sum of all the evaluation systems (theory and practical test and evaluation of class performance).

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 will be eligible for this call, and they will be assessed in accordance with 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 9): Introduction	
Comment: The detailed planning of the activities will be available on the virtual campus at the beginning of the course.	

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	