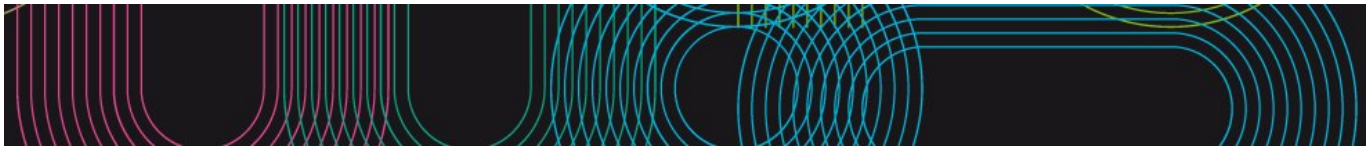

TABLA DE ERROS	
Lugar do erro	**Descrición**
Materia V10G061V01305, apartado 'Cabeceira páxina'	Erro de PHP [Deprecated, script: /var/www/releases/docnet/docnet-20261105-115903/docencia/funcions.php, liña: 6802]: html_entity_decode(): Passing null to parameter #2 ($flags) of type int is deprecated
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Materia V10G061V01305, apartado 'Competencias'	Erro de PHP [Deprecated, script: /var/www/releases/docnet/docnet-20261105-115903/docencia/funcions.php, liña: 6802]: html_entity_decode(): Passing null to parameter #2 ($flags) of type int is deprecated
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Materia V10G061V01305, apartado 'Resultados Aprendizaxe'	Erro de PHP [Deprecated, script: /var/www/releases/docnet/docnet-20261105-115903/docencia/funcions.php, liña: 6802]: html_entity_decode(): Passing null to parameter #2 ($flags) of type int is deprecated
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Materia V10G061V01305, apartado 'Contidos da materia'	Erro de PHP [Deprecated, script: /var/www/releases/docnet/docnet-20261105-115903/docencia/funcions.php, liña: 6802]: html_entity_decode(): Passing null to parameter #1 ($string) of type string is deprecated

Materia V10G061V01305, apartado 'Contidos da materia'	Erro de PHP [Deprecated, script: /var/www/releases/docnet/docnet-20261105-115903/docencia/funcions.php, liña: 6802]: html_entity_decode(): Passing null to parameter #2 ($flags) of type int is deprecated
Materia V10G061V01305, apartado 'Atención Personalizada'	Erro de PHP [Deprecated, script: /var/www/releases/docnet/docnet-20261105-115903/docencia/funcions.php, liña: 6802]: html_entity_decode(): Passing null to parameter #2 ($flags) of type int is deprecated
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Materia V10G061V01305, apartado 'Bibliografía'	Erro de PHP [Deprecated, script: /var/www/releases/docnet/docnet-20261105-115903/docencia/funcions.php, liña: 6802]: html_entity_decode(): Passing null to parameter #2 ($flags) of type int is deprecated
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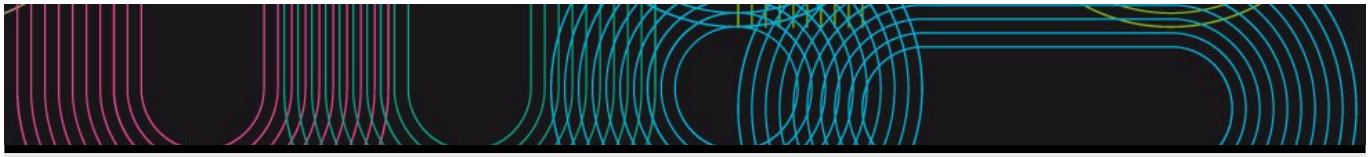

IDENTIFYING DATA				
Physiology of marine organisms				
Subject	Physiology of marine organisms			
Code	V10G061V01305			
Study programme	Grado en Ciencias del Mar			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	3rd	1st
Teaching language	#EnglishFriendly Spanish Galician			
Department				
Coordinator	Blanco Imperiali, Ayelén Melisa Pedrol Bonjoch, María Nuria			
Lecturers	Blanco Imperiali, Ayelén Melisa Lopez Patiño, Marcos Antonio Pedrol Bonjoch, María Nuria Velasco Rubial, Cristina			
E-mail	pedrol@uvigo.es amblanco@uvigo.es			
Web	http://https://mar.uvigo.es/			
General description	Study of the operation of the marine organisms (animal and vegetal) and of the mechanisms that make possible his adaptation to the half. It will loan special attention the those physiological **appearances mothers related with the integration of the pertinent information of the half marine and the generation of specific answers. English Friendly subject: International students may request from the teachers: a) resources and bibliographic references in English, b) tutoring sessions in English, c) exams and assessments in English.			

Training and Learning Results	
Code	
A2	Students can apply their knowledge and understanding in a manner that indicates a professional approach to their work or vocation, and have competences typically demonstrated through devising and sustaining arguments and solving problems within their field of study
A3	Students have the ability to gather and interpret relevant data (usually within their field of study) to inform judgments that include reflection on relevant social, scientific or ethical issues
A5	Students have developed those learning skills that are necessary for them to continue to undertake further study with a high degree of autonomy
B1	Know and use vocabulary, concepts, principles and theories related to oceanography and apply everything learned in a professional and/or research environment.
C9	Acquire basic knowledge about the structural and functional organization and the evolution of marine organisms.
C10	Know the biological diversity and functioning of marine ecosystems.
C11	Apply the knowledge and techniques acquired to the characterization and sustainable use of living resources and marine ecosystems.
D1	Develop the search, analysis and synthesis of information skills oriented to the identification and resolution of problems.
D4	Ability to communicate orally and in writing in Galician language.
D5	Sustainability and environmental commitment. Equitable, responsible and efficient use of resources.

Expected results from this subject	Training and Learning Results
5. To gain capacity of analysis and approaching to hypothesis in plant physiology.	A2 A3

6. To know the relationships among the photosynthetic marine organisms and the abiotic and biotic marine environments, by means of the study of their adaptations and the physiological processes of acclimation (functional types, osmoregulation, fotoprotection, biomass partitioning).	A2 A5	B1	C10	D4 D5
ANIMAL PHYSIOLOGY: 7. To know the mechanisms of acquisition and integration of the sensory information in marine animals	A2 A3 A5	B1		
8. To know the physiological bases of muscular activity and its implication in aquatic locomotion	A3	B1		
9. To know in marine animals the mechanisms trough which synthesis, release, transport and the action of hormones synthesised by endocrine glands and the nervous system of marine animals occurr.	A2 A3	B1		
10. Knowing the corporal fluids and the functioning of cardiovascular systems.	A3	B1	C9	
11. To know the mechanisms of gas exchange between the animals and the water where they live.	A3	B1		
12. To know the mechanisms for wastes elimination and of osmotic regulation in distinct groups of marine animals.	A3	B1		
13. To know how animals obtain energy through food consumption, and how to use such energy as well.	A3 A5	B1		D5
15. To know the general and basic terminology in Animal Physiology.	A3	B1		
17. To understand the general functioning of the animal as a whole, emphasizing in the role played by the integratory and coordinatory systems.	A2 A3	B1	C9 C10	D5
18. To understand basic aphysiology-related aspects, such as aquaculture.	A2 A3 A5	B1	C11	D1 D5

Contents

Topic	
PLANT PHYSIOLOGY:	1. Plant Physiology in the ocean. 2. Cell and tissue basic characteristics photosynthetic marine organisms 3. Water relations in photosynthetic marine organisms. Osmoregulation and osmoprotection. 4. Mineral nutrition in marine environments. 5. Photosynthesis: definition and physiological, ecological and evolutionary relevance. 6. The photosynthetic organelles. 7. Light and photosynthetic pigments. 8. The photochemical phase of photosynthesis. 9. The biochemical phase of photosynthesis. 10. Mechanisms of carbon gain and concentration in photosynthetic marine organisms.
ANIMAL PHYSIOLOGY:	1. Physiological bases of excitability 2. The nervous system and the neural communication 3. Physiology of the systems effectors in marine animals: muscular activity and locomotion, cromatophora and bioluminescence 4. Sensory physiology in marine animals: mecanoreception, electroreception, magnetoreception, quimioreception, fotoreception and vision. 5. Physiology of the neuroendocrine and endocrine systems in marine animals 6. Circulatory fluids and operation of the cardiovascular systems in marine animals 7. Operation of the respiratory systems in marine animals 8. Physiology of excretion and osmorregulation in marine animals 9. Physiology of the digestive systems in marine animals

Planning

	Class hours	Hours outside the classroom	Total hours
Lecturing	28	70	98
Laboratory practical	10	4	14
Mentored work	0	12	12
Discussion Forum	0	2	2
Seminars	5	15	20
Objective questions exam	0.7	0	0.7
Essay questions exam	1	0	1
Problem and/or exercise solving	0.3	0	0.3
Debate	0	2	2

*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
	Description
Lecturing	2-4 weekly hours until the planning is completed. To be developed in the corresponding classroom, with all the enrolled students. PowerPoint presentations will support theory sessions. The educational materials will be at the students' disposal on the Moovi platform. Student participation will be promoted through collaborative methodology in the classroom.
Laboratory practical	The students will assist 4 sessions of practice in the laboratory: two sessions of 2.5 h each in Animal Physiology, and two sessions of 2.5 h in Plant Physiology. Attendance is compulsory.
Mentored work	PLANT PHYSIOLOGY: short Activities of cooperative learning in the classroom, in spontaneous or random groups. Immediate delivery. They are a complement to the evaluation, not compulsory. Each activity delivered can add up to 0.1 points to the final mark of PLANT PHYSIOLOGY, although they do not penalize if they are not delivered.
Discussion Forum	Through the platform Moovi: -Virtual forum of innovation and state of the art: Scientific Articles and websites of physiological /ecophysiological subjects of ANIMAL and PHOTOSYNTHETIC marine organisms -Virtual forum of review: scientific Articles and websites of cytology and histology of photosynthetic marine organisms Each QUALITY contribution to the forums adds one-tenth to the final grade of the corresponding ANIMAL Ph. or PLANT Ph. exam, up to a maximum of 1 point in each part. It does not penalize you if you do not participate.
Seminars	In the module of ANIMAL PHYSIOLOGY seminars will be devoted to the planning and exhibition of subjects elaborated by the distinct groups of students In the module of PLANT PHYSIOLOGY seminars will be devoted to the resolution of problems

Personalized assistance	
Methodologies	**Description**
Seminars	Resolution of doubts and difficulties to the groups or personnel if necessary. During the seminar and in tutorials, by prior arrangement with the teachers via e-mail
Lecturing	Resolution of doubts and difficulties to the group or personnel if necessary. During the session and in tutorials, by prior arrangement with the teachers via e-mail. Students willing so could attend personal tutorials to solve doubts and/or uncertainties, which will mainly take place by prior arrangement with the teachers via e-mail. To better optimize the procedure, the student is requested to previously contact his/her teacher with reasonable anticipation.
Laboratory practical	Resolution of doubts and difficulties to the groups or personal if necessary. During the practices and in tutorials, by prior arrangement with the teachers via e-mail.
Mentored work	Resolution of doubts and difficulties to the groups the groups or personal if necessary. In the classroom and in tutorials, by prior arrangement with the teachers via e-mail
Discussion Forum	Feedback through the platform Moovi
Tests	**Description**
Debate	Feedback through the platform Moovi and during the sessions.

Assessment						
	Description	Qualification	Training and Learning Results			
Lecturing	Attendance will be evaluated There will be final evaluation tests for both modules. The relative weighting of each will be 50%. A minimum of a 4 in each module is required to pass the exam. The final exam will consist of objective tests, developmental questions and problem solving.	0	A2 A3 A5	B1		D5
Laboratory practical	In the module of Plant Physiology (5% of the qualification) the evaluation will be by attendance and questions in the final exam. In the module of Animal Physiology (5% of the qualification) the evaluation will be by attendance.	10	A2 A3 A5	B1	C9 C10 C11	D1 D5

Mentored work	Volunteer for the module of Plant Physiology. (Short collaborative learning activities in the classroom, in spontaneous or random groups. Immediate delivery. They are complementary to the evaluation, not mandatory. Each classroom activity delivered raises one tenth of the final grade of PLANT PHYSIOLOGY, although they do not penalize if they are not delivered).	0	A2 A3 A5	B1	C9 C10	D1 D4 D5
Discussion Forum	Voluntary for both modules (Each QUALITY contribution to the forums adds one-tenth to the final grade of the corresponding ANIMAL Ph. or PLANT Ph. exam, up to a maximum of 1 point in each part. It does not penalize you if you do not participate.).	0	A2 A3 A5		C10 C11	D1 D4 D5
Seminars	Attendance is mandatory for the continuous evaluation, given its experimental and practical nature. In the Plant Physiology module, the mark will be based on attendance and performance (5%), and the problems will be subject of the exam. In the Animal Physiology module, students in groups of 2-3 will elaborate a work to be presented in the classroom, and the mark will be based on attendance and performance (15%).	20	A2 A3 A5	B1	C9 C10 C11	D1 D4 D5
Objective questions exam	Mandatory	25	A2	B1	C9 C10 C11	D4
Essay questions exam	Mandatory	35	A2 A5	B1	C9 C10	D4
Problem and/or exercise solving	Mandatory	10	A3		C10	D1 D4

Other comments on the Evaluation

To pass the subject, it is required that the overall qualification of each of the modules (exams, seminars and practices) separately is not less than 4 points.

Partial and final exams: The partial evaluation of the Animal Physiology module will be held in classroom hours at the end of the module (date to be confirmed, will be communicated through the Moovi platform with due notice). The evaluation of the Plant Physiology module will take place on the official date of the first opportunity determined by the Xunta de Facultade and published in the exam calendar of the Faculty's website (mar.uvigo.gal). On this official date, students may sit the exam of both modules of the subject, as long as they have not sat the partial exam of the Animal Science module. The second chance exam will be held on the official date determined by the Xunta de Facultad and published in the exam calendar of the Faculty's website (mar.uvigo.gal). In this second chance exam, students will be able to sit only the module they have pending (with qualification < 4).

Itinerary of global evaluation: There is a second alternative itinerary to the continuous evaluation with the possibility of passing the subject in a single final test, which will include the contents of theory and the seminars of problems of Plant Physiology. The application for this evaluation option must be submitted in the time and manner determined by the Center, which will be published prior to the academic start. However, it must be communicated to the teachers of the subject at the beginning of the semester and must be justified. For students who opt for the global evaluation, the delivery of the report of problems of Plant Physiology and the work of Animal Physiology is voluntary and can raise the final grade up to two points.

Students taking this course are required to behave responsibly and honestly. Any form of fraud (**copying or plagiarism**) aimed at falsifying the level of knowledge and skills achieved in any type of test, report or work is considered unacceptable. Fraudulent behaviour may lead to suspension from the course for a full academic year. will keep an internal record of these actions so that, in the event of a repeat offence, a disciplinary case can be submitted to the rector's office for disciplinary action.

Any **use of AI** in academic work must be disclosed, specifying the tool used, the function it performed, the scope of its involvement, and which part of the work was authored by a human. If there are reasonable grounds to suspect misuse of AI, faculty members may reject the work, request additional evidence, or refer the case to the appropriate administrative disciplinary procedure.

Sources of information

Basic Bibliography

Hill, R.W. et al, **Fisiología animal.**,

Moyes, C. y Schulte, P., **Principios de fisiología animal.**,

Withers, P.C., **Comparative Animal Physiology.**,

Taiz L, Zeiger E, **Fisiología vegetal**, Publicacions de la Universitat Jaume I,

Taiz L et al., **Plant Physiology and Development, Sixth Edition**, Sinauer Associates, Inc.,

Complementary Bibliography

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Willmer, P., Stone, G., Johnston, I., **Environmental physiology of animals,**,

Giordano M et al. , **Evolutionary Physiology of Algae and Aquatic Plants**, 978-0-521-82298-5, Cambridge, UCambridge University Press, 2024

Lobban CS, Harrison PJ, **Seaweed Ecology and Physiology**, Cambridge University Press, New York,

Kirk JTO, **Light and photosynthesis in aquatic ecosystems**, 3rd ed. Cambridge, UK: Cambridge University Press,

Larkum AWD, Robert JO, Duarte CM, **Seagrasses: biology, ecology, and conservation**, Dordrecht (The Netherlands): Springer,

Azcón-Bieto J, Talón M, **Fundamentos de Fisiología Vegetal**, 2ª ed. Madrid: McGraw-Hill Interamericana,

Recommendations

Subjects that are recommended to be taken simultaneously

Aquaculture/V10G061V01310
Biological oceanography I/V10G061V01301
Biological oceanography II/V10G061V01306

Subjects that it is recommended to have taken before

Biology: Biology I/V10G061V01101
Marine zoology/V10G061V01210
Biology: Biology 2/V10G061V01106
Marine botany/V10G061V01202

Other comments

Students are strongly requested to fulfil a honest and responsible behaviour. It is considered completely unacceptable any alteration or fraud (i.e., copy or plagiarism) contributing to modify the level of knowledge and abilities acquired in exams, evaluations, reports or any kind of teacher□s proposed work. Fraudulent behaviour may cause failing the course for a whole academic year. An internal dossier of these activities will be built and, when reoffending, the university rectorate will be asked to open a disciplinary record.