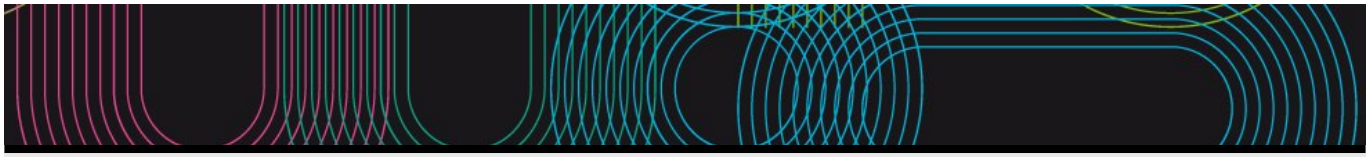

IDENTIFYING DATA				
Biology: Biology				
Subject	Biology: Biology			
Code	O01G281V01101			
Study programme	Grado en Ingeniería Agraria			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Basic education	1st	1st
Teaching language	Galician			
Department				
Coordinator	Rodríguez Flores, María Shantal			
Lecturers	Rodríguez Flores, María Shantal			
E-mail	mariasharodriguez@uvigo.es			
Web				
General description				

Training and Learning Results	
Code	
A3	Students will be able to gather and interpret relevant data (normally within their field of study) that will allow them to have a reflection-based considered opinion on important issues of social, scientific and ethical nature.
A4	Students will be able to present information, ideas, problems and solutions both to specialist and non-specialist audiences.
B1	Students will be able to develop analysis, synthesis and information-management skills for application in the agricultural, food and environmental sectors.
B2	Students will acquire and apply teamwork abilities and skills.
C7	Knowledge of the biological foundations of the vegetal and animal realms in engineering.
D2	Analysis, organization and planning skills.
D3	Oral and written communication skills in local and foreign languages.
D4	Independent-learning and information-management skills.
D5	Problem-solving and decision-making skills.
D8	Interdisciplinary teamwork skills.

Expected results from this subject	Training and Learning Results			
Facilitate the capacity of synthesis and analysis and promote the work in team by means of it takes of decisions reasoned and *consensuadas. It indicates how 1 in the evaluation		B1 B2		D2 D3 D5 D8
Knowledge of the biological bases with special reference to cellular unit, to the processes that in her develop and the biological diversity how *pilar @importante of the alimentary technological processes. It considers result number 2	A3 A4		C7	
The students will owe to be able of *recabar information on subjects *relevantes related with the subject, #analyze, manage and transmit of oral form and writing. It considers result of learning 3	A3 A4	B1	C7	D2 D3 D4 D5

Contents	
Topic	
*Introduc¡*ón The science of the Biology.	The Biology how science. Essential molecules stop the life.

Cellular biology and *histoloxía.	The cells how vital elements. Cellular types. Cellular cycle and cellular reproduction. Animal and vegetal fabrics.
Diversity of the organisms.	Biological diversity and ranking. Main characteristics of the organisms of the kingdom *monera. Main characteristics of *protistas. Main characteristics of funguses. Plants *vasculares. Plants no *vasculares. Groups of animals and differential characteristics.
Subject and energy us be alive.	Principles of Metabolism. *Fotosíntese.
Genetic and evolution.	Structure of the *xen and transfer of the genetic information. Inheritance and evolution. Introduction to the genetic engineering.

Planning

	Class hours	Hours outside the classroom	Total hours
Seminars	12	24	36
Laboratory practical	14	21	35
Mentored work	2	4	6
Lecturing	28	21	49
Problem and/or exercise solving	0	1	1
Objective questions exam	0	1	1
Report of practices, practicum and external practices	0	0.5	0.5
Essay	0	0.5	0.5
Essay questions exam	0	21	21

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

Methodologies

	Description
Seminars	(*)Trátanse temas relacionados con cada un dos bloque temáticos. Consistirá na lectura e interpretación de textos que poden implicar ou non a resolución de exercicios.
Laboratory practical	(*)Realizaranse prácticas de microscopía e de observación de distintos grupos de organismos. Serán tuteladas polo profesor pero con autonomía para cada alumno. Cada estudante elaborará unha memoria das actividades realizadas.
Mentored work	(*)Elaboración dun traballo tutelado individual sobre os aspectos biolóxicos dun organismo de interés na industria alimentaria.
Lecturing	(*)Explicación en aula de cada tema. A se sión maxistral ten por obxecto facilitar a formación básica dos estudantes nesta materia.

Personalized assistance

Methodologies	**Description**
Lecturing	During it *docencia *presencial and in *títorias
Seminars	During it *docencia *presencial and in *títorias
Laboratory practical	During it *docencia *presencial and in *títorias
Mentored work	
Tests	**Description**
Problem and/or exercise solving	In the realization of the proof
Objective questions exam	In the realization of the proof
Report of practices, practicum and external practices	In the practical kinds and in hours of *títoria
Essay	In *títorias
Essay questions exam	

Assessment

	Description	Qualification	Training and Learning Results

Problem and/or exercise solving	Supervised work that is carried out during seminar classes. It evaluates he result of 1 and 3 are evaluated	15	A3	B1	C7	D2 D3 D4 D5
Objective questions exam	By means of a multiple choice test, issues related to the training provided during the master classes and seminars will be analysed. Learning outcome 2 is assessed	30		B1	C7	D2 D3 D4 D5
Report of practices, practicum and external practices	Attitude during the realization and quality of the activity. It evaluates the result of *aprendizaje 1	10	A3 A4	B1	C7	D2 D3 D4 D5
Essay	Individual supervised work Attitude during the performance and quality of the activity. Learning outcome 1 and 3 are evaluated	5	A3 A4	B1 B2	C7	D2 D3 D4 D8
Essay questions exam	Questions related to the training provided during master classes and seminars. Learning outcome 2 is assessed	40		B1	C7	D2 D3 D4 D5

Other comments on the Evaluation

The preferred assessment method is Continuous Assessment. Those students who want the Global Assessment (100% of the grade in the official exam) must contact the person in charge of the subject, by email or through the Moovi platform, within a period not exceeding one month from the start of the assessment. teaching of the subject.

The score of the different activities will be applicable to the official calls of the 1st and 2nd editions (January and July).

In the extraordinary calls (end of degree) it will be evaluated by means of an exam whose score will represent 100%.

The official exam dates are as follows:

1st edition: 01/25/2024 (10:00 am)

2nd edition: 07/05/2024 (10:00 a.m.)

End of career: 09/18/2023 (4:00 p.m.)

In the event of an error in the transcription of the exam dates, the valid dates are those published on the bulletin board and on the website of the Faculty of Sciences.

Sources of information

Basic Bibliography

AUDESIRK T., **Biología: la vida en la tierra**, 8, Prentice Hall Hispanoamericana, 2008

FREEMAN et al.,, **Fundamentos de Biología**, 5, Pearson, 2014

SOLOMON ET AL, **Biología**, Cengage Learning, 2013

Megias et al, **Atlas de Histología Vegetal y Animal**,

Complementary Bibliography

Aira M. J., **Manual de Practicas de Botánica**, 1, USC, 2014

Recommendations