



IDENTIFYING DATA

Final Year Dissertation

Subject	Final Year Dissertation			
Code	V02G030V01991			
Study programme	Grado en Biología			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	18	Mandatory	4th	2nd
Teaching language	#EnglishFriendly Spanish Galician			
Department				
Coordinator	Míguez Miramontes, Jesús Manuel			
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General description	<p>The Final Degree Project is a mandatory subject of 18 ECTS that is part of the module Final Degree Project and Work. This module develops in the last year of the degree program in Biology.</p> <p>The objective of the End of Degree Project is to offer the students the opportunity to apply knowledges, skills and competences adquired during the Degree studies.</p> <p>The project consists in an original work that each student will carry out individually under supervision of a teacher (tutor), and will allow to demonstrate in an integrated way the acquisition of competences and skills associated with the title.</p> <p>Compliance with the regulations approved for the project is mandatory for all students of this subject. The management of all the processes corresponds to the Final Degree Project Committee, which has been appointed for this proposal by the Faculty.</p> <p>The subject does not have a fixed schedule in the academic calendar, although all the activities are usually developed throughout the second semester of the academic year.</p>			

Training and Learning Results

Code	
A1	Students should prove understanding and knowledge in this study field that starts in the Secondary Education and with a level that, even though it is supported in advanced books, also includes some aspects that involve knowledge from the vanguard of the study field.
A2	Students should know how to apply their knowledge to their work or vocation in a professional way. They also should have the competences that are usually proved through the elaboration and defence of arguments and the resolution of problems within their study field.
A3	Students should prove ability for information-gathering and interpret important data (usually within their study field) to judge relevant social, scientific or ethical topics.
A4	Students should be able to communicate information, ideas, issues and solutions to all audiences (specialist and unskilled audience).
A5	Students should develop the necessary learning skills to undertake further studies with a high degree of autonomy
B1	Ability of organization and planning in the working area in a multidisciplinary environment relate to biology and other connected fields.
B2	Ability of reading and analyzing scientific papers and having critical assessment skills to understand data collection, deducing the main idea from the least relevant ones and basing on the corresponding conclusions.
B3	Acquisition of general knowledge about the basic subjects of biology, both at theory and experimental level, without dismissing a higher specialization in subjects that are oriented to a concrete professional area.
B4	Ability in handling experimental tools, both scientific and computer technology equipment that support the search for solutions to problems related to the basic knowledge of biology and with those of a concrete labour context.
B5	Understanding of the levels of organization of living beings from a structural (molecular, cellular and organic) and functional point of view by observing their relations with the environment and other organisms, as well as their appearances in situations of environmental alteration.
B6	Ability to use biological knowledge obtained with this degree in a professional context by reasoning and presenting the ideas clearly, backed up and based on a solid general and specific education.

B7	Collection of information about issues of biologic interest, analysis and emission of critical opinions and reason them including the reflection about social and/or ethical aspects related to the issue.
B8	Ability to draft and write independent reports or projects related to the biological field. Communicate through verbal or written presentations and develop a logical argument in a professional context where it is shown skills acquired in this degree program.
B9	Motivation to achieve innovative and proactive actions based on accomplished background from courses attended, background from current topics checked (I+D) (Research and Development, Environment, Biomedicine, Bio production...) and background obtained from internships made in the business network.
B10	Development of analytic and abstraction skills, the intuition and the logical and rigorous thought through the study of biology and its uses.
B11	Ability to communicate in detail and clearly: knowledge, methodology, ideas, issues and solutions to all audiences (not only qualified but unskilled in Biology).
B12	Ability to identify their own educational necessities in the biology field and in concrete labour areas and to organize their learning with a high grade of autonomy in any context.
C25	Gathering background information, develop experimental work and analysing data results
C26	Participating in conducting, writing and producing projects on Biology
C27	Developing and monitoring management systems and quality control on Biology
C29	Helping and evaluating scientific, technical, ethical, legal and socioeconomically aspects related to Biology.
C31	Knowing and handling technical and scientific apparatus.
C32	Knowing and handling basic or specific key concepts and terminology
C33	Understanding the social projection of Biology.
D1	Development of capacity of analysis and synthesis
D2	Acquisition of the organization and planning capacity for tasks and time
D3	Development of oral and writting communication abilities
D4	Acquisition of foreign language knowledge related to the study field
D5	Use of computer resources related to the study field
D6	Research and interpreting of information from different sources
D7	Resolution of issues and decision making in an effective way
D8	Development of the ability of independent learning
D9	Ability to work in collaboration or creating groups with an interdisciplinary character
D10	Development of the critical thinking
D11	Adquisition of an ethical agreement with the society and the profession
D12	Respectful behaviour to diversity and multiculturalism
D13	Sensitivity for environmental issues
D14	Adquisition of abilities in the interpersonal relationships
D15	Development of creativity, initiative and enterpreneurial spirit
D16	Acceptance of a quaility commitment
D17	Development of the self-criticism ability
D18	Development of negotiating power

Expected results from this subject

Expected results from this subject	Training and Learning Results			
The aim of the Final Degree Project is that the student put knowledge and skills acquired during the Degree into practice.	A1	B1		D1
	A2	B2		D2
	A3	B3		D3
	A4	B4		D4
	A5	B5		D5
		B6		D6
		B7		D7
		B8		D8
		B9		D9
		B10		D10
		B11		D11
		B12		D12
				D13
				D14
				D15
				D16
				D17
				D18
To apply knowledge, abilities and technologies of biology in aspects related to the development and implementation of management systems and quality control.	A2	B4	C27	D11
		B8		D16
		B12		

To obtain information, develop projects and interpret results.	A2	B1	C25	D2
	A3	B2	C26	D6
		B7		D7
		B8		D8
				D11
				D15
To participate in the direction, writing and execution of projects of biological scope.	A2	B1	C25	D2
	A5	B2	C26	D5
		B4	C27	D6
		B6	C33	D7
		B8		D9
		B12		D11
				D15
				D16
				D18
To understand the social projection of biology and its impact on professional practice, as well as to know how to use knowledge to teach and disseminate.	A3	B7	C33	D3
	A4	B11		D11
To apply the knowledge acquired for advising, supervise and assess scientific, technical, ethical, legal and socio-economic aspects related to biology.	A3	B6	C29	D7
	A4	B7		
To know and to handle concepts, terminology and scientific-technical instrumentation related to biology.	A4	B4	C31	D3
			C32	D4
				D5

Contents

Topic

The Final Degree Project does not have its own (*)-contents. However, the details of its organization are indicated below.

The subject Final Project will be organized on the basis of three activities that the student will have to carry out appropriately:

1. Development of an original work related to one of the multiple fields of biology or its professional application.
The work will be done under the supervision of a professor (tutor) assigned to this subject.
There are different types of final degree project for which students can choose:
- Type A: offered by professors of the degree. At the beginning of the academic year students must choose a project topic among those offered. The Final Degree Project Committee will establish the norms and deadlines that will govern the awarding to the students of the topics proposed by the professors.
 - Type B: proposed by students and agreed with a professor of the degree who will supervise the work.
 - Type C: proposed by students to be carried out in institutions other than the UVIGO with which there is an agreement. This type of work will imply the existence of an academic tutor from the institution and a person from the external entity who will act as a co-tutor.
 - Type D: subject to students with special educational needs.
 - Type E: developed by students within the framework of a mobility program.
- The particular characteristics of each of these types of work, as well as the rules that govern them, are included in the regulations of the Final Degree Project in Biology.
2. Delivery of a written report in time. It will be focus on the project carried out by the student.
3. Presentation and defense of the work before an Evaluating Board that will evaluate and grade it.
- The type of project should be limited to these sections:
- Experimental work that is developed in the laboratories of the faculty of Biology or in other UVigo research centers of biological scope.
 - Theoretical development (design, planning, applicability) of a project of economic, social, environmental, educational interest, etc., related to the field of biology, or biology-based technology.
 - Literature review projects whose objective is a possible practical application (initial study for a project, innovative case, etc.)
 - Other projects corresponding to the offer of professors that do not specifically comply with the above modalities. They must be approved by the Final Degree Project Committee.
 - Work applied to biology carried out in external public and private institutions.

The characteristics of the report and the deadlines for delivery will be established sufficiently in advance by the Final Degree Project Committee.

The rules of presentation and defense of the project will be established by the Final Degree Project Committee, in agreement with the approved rules.

Planning			
	Class hours	Hours outside the classroom	Total hours
Mentored work	20	380	400
Project	1	39	40
Presentation	1	9	10

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

Methodologies	
	Description
Mentored work	The final degree project will be carried out under the supervision of a professor (tutor).
	The function of the tutor will consist on supervising and guiding the student in the subject, methodology, elaboration, presentation and any other academic aspect related to the final project.
	The rules governing the tutorial function are included in the Regulations for the Final Degree Project of the University of Vigo and the Faculty of Biology.

Personalized assistance	
Methodologies	Description
Mentored work	An academic supervisor will guide the student during the completion of the final degree project. He will monitor the work and participate in its evaluation, in agreement with the regulations approved for this subject.

Tests	Description
Project	The student will develop an original project autonomously and under the supervision of a tutor, in which he/she will demonstrate the skills acquired during the degree. At the end of the project, he/she must present the results of the project in a report, according to the established rules. The student will also make a presentation of the report in front of the examining board, the project and the report constituting the highest percentage of the grade obtained in the subject. The tutor will also supervise the report and the presentation, helping the student to complete the final project.

Assessment				
	Description	Qualification	Training and Learning Results	
Mentored work	The supervisor will issue a tutorial evaluation report that includes different items aimed at assessing the acquisition of competences and skills by the student. The tutor's rubric model is approved by the Final Degree Project committee. The following link address to a model used in the 2022-23 academic course, which can serve as a reference for the 2023-24 academic course. http://bioloxia.uvigo.es/docs/docencia/grado/tfg/TFG_informe_tutor.pdf	30	A1 B1 A2 B2 A3 B3 B4 B5 B6 B7 B8 B9 B10 B12	C25 D1 C26 D2 C27 D3 C29 D4 C31 D5 C32 D6 C33 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18
Project	The student must submit a report of the project in which the main details of the work done will be included. In the following link you can consult the rules for the elaboration of the report in the academic year 2022-23, which can serve as a reference for the academic year 2023-24. https://bioloxia.uvigo.es/gl/docencia/traballo-fin-de-grao/	40	A1 B2 A3 B5 A5 B7 B9	C25 D1 C26 D3 C27 D6 C32 D7 C33 D10 D12 D13 D14
Presentation	The student must make a presentation of the project in front of the panel and discuss with its members about the different aspects of the work done.	30	A2 B6 A4 B8 B11	C32 D3 D5 D15

Other comments on the Evaluation

End of Degree Project Evaluation Board

The Evaluation Board will be formed by three professors of the degree and will be appointed at the proposal of the Final Degree Project committee. As many boards as necessary will be formed, with their corresponding alternate members, to guarantee the proper development of the evaluation process.

End of Degree Project report

With sufficient time in advance, the Final Degree Project committee will establish the deadlines for the presentation and defense, as well as the delivery of a project report. Failure to submit the report within the established deadline will result in the non-presentation to the evaluation process.

Students will have a regulation for the elaboration and presentation of the report. For the 2023-24 academic year, these regulations will be available on the faculty website and on the teaching platform.

Presentation and defense of the Final Degree Project

The Evaluating Board will publish in advance the order of presentation, place and time of the evaluation sessions, which will be available to all students.

Grades

At the end of the evaluation process, the Evaluating Board will publish jointly the grades received by the students.

If a student passes the tutor's evaluation, but obtains a failing grade in any other section of the Final Degree Project, the examining board will provide the student and his/her tutor with a report containing recommendations for improving the work at the next opportunity. In particular, it will be emphasized if the negative grade obtained by the student can be recovered in a second opportunity in the same course or if, on the contrary, the student must complete the whole work in another academic year.

Second chance

The student may recover in a second opportunity of the same term those aspects that did not exceed in the first, as long as the report obtained by the evaluating board in the first opportunity so specified.

The Final Degree Project Committee will establish in advance the terms that will govern the evaluation process in the second opportunity. It will include the deadlines for the submission of the defense request and the tutor's report. It will also specify the date, place and time of the presentation and defense of the project.

Schedule

The final degree project does not have an established schedule; each student will establish their schedule according to the supervisor, usually during the second term of the academic year.

Dates scheduled for the evaluation in the 2023-24 academic year

Official dates were approved in the Faculty Board. See link: <http://bioloxia.uvigo.es/es/docencia/examenes>

Applicable regulations

The Final Degree Project Regulations of the University of Vigo, approved in "Consello de Goberno" is available at: http://www.uvigo.gal/opencms/export/sites/uvigo/uvigo_gl/DOCUMENTOS/alumnado/TFGNovo_Def_Uvigo.pdf

The Regulations of the Faculty of Biology for the completion of the Final Degree Project, approved in "Xunta de Facultade" is available at: http://bioloxia.uvigo.es/docs/docencia/grado/tfg/normativa_TFG_facultad_bioloxia.pdf

Ethical issues

Plagiarism will be strictly prosecuted in the final degree projects, especially in the elaboration of the final report, being a reason for failure in the subject. The unjustified use of artificial intelligence programs is not allowed either.

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations

Other comments

Recommendation for enrollment in the course:

- In order to apply to enroll in the Final Degree Project the student must have passed all the necessary credits to obtain the official degree title, except those corresponding to the project itself, either by passing the corresponding subjects or by recognition.
- In order to be able to apply for the presentation and defense of the Final Degree Project, the student should have passed all the necessary credits to obtain the degree, except those corresponding to the project itself, either by overcoming the corresponding subjects or by recognition.

Therefore, it is highly recommended that students register for this subject only if they have a certain security of being able to pass all the credits enrolled in the academic course.

Regulations of the Final Degree Project and information on the planning of the subject in the course are available at: <http://bioloxia.uvigo.es/en/teaching/end-of-degree-project>

Mobility programs:

Final degree projects can be carried out within a student mobility program, stating their characteristics in the respective study contract. Students who opt for this modality must have the approval of the mobility coordinator of the faculty and the coordinator of the subject Final Degree Project. Therefore, it is recommended that these processes be initiated sufficiently in advance.
