



IDENTIFYING DATA

Final Year Dissertation

Subject	Final Year Dissertation			
Code	V02G030V01991			
Study programme	(*)Grao en Bioloxía			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	18	Mandatory	4th	2nd
Teaching language	Spanish Galician			
Department				
Coordinator	Míguez Miramontes, Jesús Manuel			
Lecturers				
E-mail				
Web	http://http://bioloxia.uvigo.es/gl/docencia/trabajo-fin-de-grado			
General description	<p>The Final Degree Project is part of the module called as "Work and Project End of Degree", which is completed in the last year of the degree program in Biology.</p> <p>The subject Final Degree Project consists of a work that each student will carry out autonomously under teacher tutoring, 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 since all the activities can be develop throughout the second semester of the academic year.</p>			

Competencies

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 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 writing 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 entrepreneurial spirit
- D16 Acceptance of a quaility commitment
- D17 Development of the self-criticism ability
- D18 Development of negotiating power

Learning outcomes

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 subject Final Project will be organized on the (*)-basis of three activities that the student must perform properly:

1. Development of an original work related to one of the multiple fields of the working world of a biologist. The type of project should be limited to these sections:

The works will be done under the supervision of a professor (tutor) assigned to the subject. -Experimental work that is developed in the laboratories of the center or in other research centers of the UVIGO of biological scope.

There are different types of final degree project for which students can choose: -Theoretical development (design, planning, applicability) of a project of economic, social, environmental, educational interest, etc., related to the field of biology, or technology based on biology.

-Type A: offered by professors of the degree. At the beginning of the academic year students should opt for a project theme among those offered. The End of Degree Project Committee will establish the norms and terms that will govern the award to the students of the topics proposed by the professors. -Review and bibliographical research work whose objective is a possible practical application (initial study for a project, innovative case, etc.)
-Other works 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.

- Type B: proposed by students and agreed with a professor of the degree who will supervise the work. a- Work applied to biology carried out in external public and private institutions.

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

3. Presentation and defense of the work before an evaluation tribunal that will evaluate and qualify it.

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

Planning

	Class hours	Hours outside the classroom	Total hours
Supervised work	20	400	420
Presentation	1	29	30

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

Methodologies

	Description
Supervised work	<p>The final degree project will be carried out under the supervision and direction of a professor (tutor).</p> <p>His function will consist on supervising and guiding the student in the subject, methodology, elaboration, presentation and any other academic aspect related to the final project, as well as facilitating its management and the entire process until the presentation and defense of the final project.</p> <p>The rules governing the tutorial function within the final degree project are included in the Regulation of the Final Degree Project of the University of Vigo and in the Final Degree Project of the Faculty of Biology.</p>
Presentation	<p>The student must collect his work in a report, which will be submitted within the appropriate time to the Dean's Office of the Faculty, so that, through the coordinator of the subject, it will be available to the Evaluating Committee.</p> <p>Together with the report, the student must submit an application form to the defense of the project. This can be obtained from the web student application (virtual secretariat) and after a report of suitability of his tutor. The time to request for applications will be informed to the student throughout the year.</p> <p>On dates indicated, the student will make a presentation and defense of the final project in front of the Evaluating Committee that will rate the work.</p> <p>The rules to elaborate the report and the presentation to the Evaluating Committee will be established with sufficient advance by the End of Degree Project Committee, in accordance with the regulations approved in the Faculty of Biology for this subject.</p>

Personalized attention

Methodologies Description

Supervised work	An academic supervisor will guide the student during the completion of the final project. He will monitor the work and participate in its evaluation, in agreement with the regulations approved for this subject.
Presentation	The student will have an academic supervisor to guide him/her during the presentation of his project to the Committee, in accordance with the regulations approved for this subject.

Assessment

Description	Qualification Training and Learning Results

Presentation	The Evaluating Committee of the Final Degree Project will rate each work presented and defended. The qualification will be unique and take into account the following aspects: -Report of the activities carried out by the student and delivered in time and form. For that, an evaluation rubric will be available. -Oral presentation oral and defense of the work carried out by the student to the Evaluating Committee. A rubric will be available for the evaluation, which will be focus on the acquisition of general and transversal competences of the degree. The rubric model used in the 2017-18 academic year, both for the evaluation of the report and for the presentation/defense of the project, is available on the website of the faculty, and can be used as reference for the 2018-19 academic year. http://bioloxia.uvigo.es/docs/docencia/grado/tfg/rubrica_evaluacion_TFG_2017-18.pdf -Evaluation report of the supervisor and, if applicable, the co-supervisor. The report includes different items aimed at the evaluation of the acquisition by the student of competences and skills, and will be approved by the End of Degree Project committee. The following link address to a model used in the 2017-18 academic year, which can be used as reference for the 2018-19 academic year. http://bioloxia.uvigo.es/docs/docencia/grado/tfg/informe_tutor_TFG_2017-18.pdf	100	A1B1 C25D1 A2B2 C26D2 A3B3 C27D3 A4B4 C29D4 A5B5 C31D5 B6 C32D6 B8 C33D7 B9 D8 B10 D9 B11 D10 B12 D11 D12 D13 D14 D15 D16 D17 D18
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Other comments on the Evaluation

End of Degree Project Evaluation Committee:

It will consist of three professors of the degree and will be appointed at the proposal of the End of Degree Project Committee. As many Committees as necessary will be set up, with their corresponding alternate members, to guarantee the proper conduct of the evaluation process.

End of Degree Project report:

With sufficient notice, the End of Degree Project Committee will establish the application deadlines for the presentation and defense, as well as the delivery of the end of degree project report. The non-delivery of the same within the set deadlines will entail the non-submission to the process of evaluation. The students will have a regulation for the preparation and presentation of the project report. The regulation for the 2017-18 academic year, which serves as a reference for the 2018-19 academic year is available in the following link:

http://bioloxia.uvigo.es/docs/docencia/grado/tfg/normas_elaboracion_memoria_TFG_2017-18.pdf

Presentation and defense of the Final Degree Project:

The Evaluating Committee will publish in advance the score criteria, the exhibition order, place and time of celebration, being available to all students.

Ratings:

At the end of the evaluation process, the Committee will publish jointly the grades received by the students enrolled in the subject. If a student obtains a grade of suspense, the evaluating committee will give him and his tutor a report gathering the recommendations to improve the work towards a later evaluation. In particular, it will be emphasized if the negative grade obtained by the student can be recovered in a second opportunity of the same course or if, on the contrary, the student must complete all the work in another academic year. The TFG ratings will be individual for each student and signed by the members of the Evaluating Committee.

Second call (July):

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 Committee in that first opportunity so specified.

The End of Degree Project Committee will establish and make public 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. I will also specify the date, place and time of the presentation and defense of the project to the Committee.

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 of the TFGs for the 2018-19 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_biologia.pdf

The Instruction regarding the procedure to follow for the claim and review of qualifications of the subject Final Degree Project is available at:

http://bioloxia.uvigo.es/docs/docencia/grado/tfg/instrucion_reclamacions_TFG_2016-17.pdf

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations

Other comments

Recommendation for inscription in the subject:

- Before to enroll in the Final Degree Project the student must have enrolled all the necessary credits to obtain the official title of degree, except those corresponding to the project itself, either by passing the corresponding subjects or by recognition.

- To be able to make the application for presentation and defense of the Final Degree Project before the Committee, 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 overcome all the credits enrolled in the academic year.

Regulations of the Final Degree Project and information on the planning of the subject in the course is available at:

<http://bioloxia.uvigo.es/es/docencia/grado-en-biologia/trabajo-fin-de-grado>.

Mobility:

The final degree projects can be carried out within a 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 center and the coordinator of the subject Final Degree Project. Therefore, it is recommended to start these processes well in advance.
