

Degree	Type	Year
2500252 Biochemistry	OB	4

Contact

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Teaching groups languages

You can view this information at the [end](#) of this document.

Prerequisites

To be admitted, students must meet the requirements established in the Regulations of the Faculty of Biosciences on the Degree Final Project (TFG) that can be found at the Faculty website.

Objectives and Contextualisation

The Degree Final Project (TFG) aims at the training objectives that are mentioned in the official memory of the degree and constitutes the culmination of the learning process where students will demonstrate the maturity acquired throughout the studies.

Competences

- Be able to self-evaluate.
- Combine research and the generation of knowledge with problem-solving in one's own field, showing sensibility to ethical and social questions.
- Design experiments and understand the limitations of experimental approaches.
- Display a thorough knowledge of a specific aspect of biochemistry or applied biochemistry and interpret the relevant scientific literature.
- Interpret experimental results and identify consistent and inconsistent elements.
- Make an oral, written and visual presentation of one's work to a professional or non-professional audience in English and understand the language and proposals of other specialists.
- Manage information and the organisation and planning of work.
- Read specialised texts both in English and one's own language.
- Show initiative and an entrepreneurial spirit.
- Take responsibility for one's own learning after receiving general instructions.
- Use ICT for communication, information searching, data processing and calculations.

Learning Outcomes

1. Be able to self-evaluate.

2. Combine research and the generation of knowledge with problem-solving in one's own field, showing sensibility to ethical and social questions.
3. Design experiments and understand the limitations of experimental approaches.
4. Display a thorough knowledge of a specific aspect of biochemistry or applied biochemistry and interpret the relevant scientific literature.
5. Interpret experimental results and identify consistent and inconsistent elements.
6. Make an oral, written and visual presentation of one's work to a professional or non-professional audience in English and understand the language and proposals of other specialists.
7. Manage information and the organisation and planning of work.
8. Read specialised texts both in English and one's own language.
9. Show initiative and an entrepreneurial spirit.
10. Take responsibility for one's own learning after receiving general instructions.
11. Use ICT for communication, information searching, data processing and calculations.

Content

The TFG is an autonomous and individual work based on topics related to any of the subjects within the field of Biochemistry

The content of the TFG varies with and depends on the annually renewed offer that is made public during the month of July for each Degree. The public offer contains a summary description of the subject under each heading, whose content will be developed and defined by the student under the supervision of a tutor throughout the period of execution of the TFG.

Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Supervised			
Tutorial sessions	7.5	0.3	3, 4, 5, 7
Type: Autonomous			
Preparation of TFG	37.5	1.5	1, 2, 3, 4, 5, 6, 7, 9, 10, 11
Reading texts and searching for information	50	2	2, 4, 5, 7, 8, 10, 11
Study and information processing	50	2	2, 3, 4, 5, 6, 7, 8, 9, 10, 11

The management of the TFG is in charge of the following figures:

- The professor responsible for the subject
- The Faculty committee of the TFG, made up by the professors held responsible for each of the Faculty's TFG
- The professors acting as tutors
- The TFG evaluation committee

The schedule of the administrative and academic steps to be followed is outlined in the website of the Faculty of Biosciences. As for the latter:

- Each student will be assigned an instructor (tutor), who will maintain a follow-up of the student's work through four tutorials; the first one will be aimed at giving the appropriate instructions to carry out the work and to define the temporary pattern of follow-up throughout the course; the three full sessions will be scheduled at the beginning, at the middle and at the end of the work; in those occasions, the students will explain their progress via a personal interview and the presentation of a portfolio.
- When students enrolled in the TFG are part of a mobility program, a way will be offered to attend online tutorials.
- During the TFG term, the student will prepare and update a portfolio that will contain in an orderly manner all the materials collected and elaborated.
- Depending on the TFG typology chosen, the student will prepare the appropriate materials on written, graphic or digital media
- A poster will be the common format for the public presentation of the TFG in the Faculty of Biosciences.

One of the methodologies for developing the TFG is Challenge-Based Learning (ABR), which consists of starting from a real challenge posed by an entity/institution with which you will have a relationship and will require teamwork to propose possible solutions, which are planned and developed in three phases: Link/Commitment, Research/Prototyping and Implementation/Evaluation. For more information on challenges: <https://challenges.eciu.org/>

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Assessment by the tutor	40	4	0.16	1, 2, 3, 4, 5, 7, 8, 9, 10, 11
Evaluation by the Evaluation Committee of the TFG	60	1	0.04	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11

The evaluation of the TFG consists of two parts:

1. Evaluation by the Evaluation Committee of the TFG (weight: 60% of the final grade). The common format of public presentation of the TFG in the Faculty of Biosciences is that of a poster and will be evaluated by the Degree's Evaluation Commission; three members of this commission will be present during poster presentations. The delivery will be made according to the instructions of the TFG regulations. In exceptional and justified situations, not contemplated in the evaluation regulations of the Faculty, the delay in the delivery of up to one week will entail a qualification reduction of 2 points. No deliveries will be accepted later than this deadline. The presentation will be called on a specific date for each degree, set by the person in charge of the subject, who will also specify the schedule in which the students must be present in the exhibition hall to defend their presentations.

The Evaluation Committee will meet with the student in front of his/her poster in order to discuss it. During the time set for the debate, the student must have all the generated documentation available for revision by the commission, including the portfolio, the written memory, videos, handouts or computer programs which may be considered necessary, following an agreement with the tutor, in some of the typologies.

2. Assessment by the tutor (weight: 40% of the final grade). The tutor will evaluate the written memory and the materials that have been generated throughout the work, paying special attention to the evolution of the student's work and the fulfilment of the objectives set.

Both the Evaluation Committee and the Academic Tutor will deliver their assessments to the person in charge of the subject, who will calculate the final grades based on the weight of each part.

All the activities of the subject are inseparable, so that the student must participate, and be evaluated, in all of them: tutorials, memory and poster in order to pass the subject. In case of not participating in one of them the final grade will be "non-evaluable".

The qualifications of the tutor and the Evaluation Committee are required to obtain a final, global qualification; otherwise the final grade will be "non-evaluable".

The Evaluation Committee may select a number of works, normally not greater than the double of maximum grade marks that can be awarded, among the students with higher qualifications. The selected students who wish to opt for the maximum grade will be required to make an oral and public presentation and defence of the work on a specific date before the Evaluation Committee that will finally award the magna cum laude grades.

If a TFG student enrolled in any of the mobility programs is not able to attend the public defence of the posters for reasons related to his/her mobility programme, the Evaluation Committee will articulate the appropriate mechanisms for the evaluation. To qualify for this non-standard measure it will be necessary to documentarily justify in due time and before the person responsible for the subject the reasons that prevent him/her from attending the public defence. In addition, the work will have to be deposited following the instructions made public on the website of the Faculty, and the student will send all the documentation referred to his/her TFG before the date of the public presentation to the president of the Evaluation Committee.

Bibliography

There is no specific bibliography for the TFG

Software

No special software is required

Language list

Information on the teaching languages can be checked on the CONTENTS section of the guide.