

**Master's Dissertation**

Code: 42892  
ECTS Credits: 9

**2025/2026**

Degree	Type	Year
Bioquímica, Biología Molecular y Biomedicina	TFE	1

## Contact

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## Teachers

Jaime Farrés Vicén

## Teaching groups languages

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

## Prerequisites

Graduates in Biochemistry, Biotechnology, Biology, Biomedical Sciences, Genetics, Microbiology, Chemistry, Computer Science, Physics, Veterinary Medicine, Pharmacy or Medicine.

English proficiency is required to read and understand scientific papers that will serve as basis for the preparation of the final project.

## Objectives and Contextualisation

The main objective of the Final Master is to learn firsthand the scientific method. Thus, the students should participate in the design, implementation and presentation of the results of a research project or work placement.

The Master Thesis involves the preparation of a report, and the public defense of the research work that had previously been developed. The main objective is that the student can integrate the set of skills and competences acquired in the master's degree. In order to get maximum performance, the R & D project will be developed as an extension of the practices carried out in the professional and research module of the corresponding specialty.

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In the Master Thesis the students must demonstrate:

a) They have acquired the skills trained in the master

- b) Their reflective and critical capacity
- c) Its ability to raise a research problem, design a project to find answers, to critically analyze the results and conclusions based and proven.
- d) Ability to present and defend the results.

## Learning Outcomes

1. CA29 (Competence) Design experiments in an academic or professional setting, applying the theoretical knowledge and skills of biochemistry, molecular biology and biomedicine.
2. CA30 (Competence) Integrate theoretical knowledge in biochemistry, molecular biology and biomedicine with experimental results in a real-world laboratory or company.
3. CA31 (Competence) Autonomously conduct activities and projects in the fields of biochemistry, molecular biology and biomedicine.
4. CA32 (Competence) Innovatively develop the methods, processes and management of biomedical problems in response to specific needs or demands.
5. KA39 (Knowledge) Identify the techniques and tools necessary for the integration of natural, social, technological and economic aspects of biochemistry, molecular biology and biomedicine in specific projects.
6. KA40 (Knowledge) Recognise innovative methods and procedures for managing biomedical problems in response to specific needs or demands.
7. SA39 (Skill) Apply knowledge of the molecular mechanisms of the normal physiological processes that operate in living organisms within the framework of an R+D+i project.
8. SA40 (Skill) Extract relevant information from reports, plans, projects, programmes and articles on environmental issues within the fields of biochemistry, molecular biology and biomedicine.
9. SA41 (Skill) Communicate information in the field of biochemistry, molecular biology and biomedicine in a clear, explanatory and concise manner to an expert audience.

## Content

A R+D project will be developed. In order to make the most of this performance, this activity will be carried out as an extension of the practices developed in the mandatory practical module of the corresponding specialty.

The written report of the Master Thesis will have the following characteristics:

1. Structure: While accepting different types of Master report according to the conducted research, we believe that their content should have the following chapters:
  - Title and signatures of the student and tutor(s)
  - Summary (maximum 300 words)
  - List of Abbreviations
  - Introduction
  - Objectives
  - Material and Methods
  - Results
  - Discussion

- Conclusions
- Bibliography

2. Extension: The report can not exceed 15,000 words, including all sections, also the bibliography. The number of tables and figures is not predetermined but it is recommended that the total length of the report (text + tables + figures) does not exceed, once printed, up to 30 pages. The type and font size should favor the readability of the document, Arial or Times New Roman of 11.5 or 12 points may be a suitable type and size.

3. Language: You can defend it in Catalan, Spanish or English.

The defense of the Master Thesis should consist of a brief presentation (between 15 and 20 minutes) to an Evaluation Committee, formed by three doctors from the Master's. The members of the Evaluation Committee may ask questions and discuss issues with students both from the oral defense, as well as from the written report. This oral defense will be public, and other Master's teaching staff in the room may also ask additional questions related to the students' work.

The Master's Thesis can be presented in Catalan, Spanish or English.

## Activities and Methodology

Title	Hours	ECTS	Learning Outcomes
Type: Supervised			
Development of a R & D project in a research laboratory	200	8	CA29, CA30, CA31, CA32, KA39, KA40, SA39, SA40, SA41, CA29
Type: Autonomous			
Writing and dissertation of Master's Thesis	24	0.96	CA29, CA30, CA31, CA32, KA39, KA40, SA39, SA40, SA41, CA29

In order to make the most of the research project, this activity will be carried out as an extension of the practices developed in mandatory practical module of the corresponding specialty.

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

### Continuous Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Document Master Thesis	50%	0	0	CA29, CA30, CA31, CA32, KA39, KA40, SA39, SA40, SA41
Oral Presentation of Master Thesis	50%	1	0.04	CA29, CA30, CA31, CA32, KA39, KA40, SA39, SA40,

The evaluation committee will evaluate the master thesis according to the final report and the oral defense. Each mark will count 50% of the total.

For both specialties, students may choose to perform the oral defense of the presentations during the first half of July or the first of September.

To be evaluated, the student must deliver the final report to the Coordinator of the corresponding specialty, before the established deadline. In addition, the student will have to make the oral presentation. If any of these requirements is not fulfilled, then the final grade will be "No available".

If plagiarism is detected in any of the works submitted, the student will fail the whole module.

## **Bibliography**

The bibliography will be specific for each project.

## **Software**

Software will be specific of the topic chosen.

## **Groups and Languages**

Please note that this information is provisional until 30 November 2025. You can check it through this [link](#). To consult the language you will need to enter the CODE of the subject.