

66017 - Master's Dissertation

Teaching Plan Information

Academic year: 2024/25

Subject: 66017 - Master's Dissertation

Faculty / School: 100 - Facultad de Ciencias

Degree: 537 - Master's in Molecular and Cellular Biology

ECTS: 30.0

Year: 1

Semester: Annual

Subject type: Master Final Project

Module:

1. General information

The general objective of the Master's Final Project (MFP) is to train the student as an independent researcher, to be employed in public or private companies and research institutions. The students will acquire the basic skills to perform, analyse, interpret and publish experimental or computational work in the fields of Molecular and Cellular Biology, Computational Biology, Biophysics or other fields related to Biotechnology.

2. Learning results

Upon completion of the MFP, the student will:

- be able to do experimental, theoretical or computational research with a high degree of independence and originality.
- apply the contents of the Master's subjects to a real research project.
- communicate, orally or on paper, the results of the project to other colleagues in the same or similar areas.
- be familiar with working in a research laboratory and/or a biotechnology company.

3. Syllabus

The list of available MFP projects, including title, description and contact details of the Tutor(s), will be as per Faculty and Department guidelines, and the Master's coordinator will inform enrolled students prior to the start of the term. The student will choose a topic and will submit a signed agreement on the choice. Each student will carry out the activities of research under the supervision of the Tutor(s). The MFP will be evaluated in any of the official periods established by the Faculty of Sciences. The exact dates for the defense and the constitution of the board will be published on the website of the Faculty of Sciences (<http://ciencias.unizar.es/>).

4. Academic activities

There is no specific syllabus for this subject. Each student will organize the required activities according to the Tutor's instructions.

5. Assessment system

Students will have to prepare a written report (MFP) on their research activity, which will be defended before a three-member board. If necessary, this exam can be conducted with videoconferencing tools, according to the rules established by the University of Zaragoza.

The report, presentation and defense will be in Spanish or English.

The board of examiners will evaluate the structure and contents of the MFP as well as the communication skills and the project Tutor's report on the student's overall performance in order to issue the final grade.

The board will consider:

1. Quality of the MFP (60% of the final grade). It will be a written report of 40 to 60 pages (not counting annexes; 1.15-1.5 line spacing; minimum size 11, recommended 12). It will include the sections: Index, Summary, Introduction, Materials and Methods, Results, Discussion and Bibliography. The results and discussion may be grouped in a single section.
2. Quality of the oral presentation and defense (30% of the final grade), with a duration between 12 and 20 minutes.
3. Report of the Tutor of the MFP (10% of the final grade).

In case of fraud or total or partial plagiarism in any part of the work detected by the board of examiners, the student will not pass the exam.

6. Sustainable Development Goals

3 - Good Health & Well-Being
4 - Quality Education
15 - Life on Land