

DESCRIPTION OF THE SUBJECT

Degree/Master in: Master's in MOLECULAR AND CELLULAR BIOLOGY by the University of Málaga
Centre: Faculty of Science
Subject: MASTER'S DISSERTATION
Code: 119
Type: Compulsory
Materia: MASTER'S DISSERTATION
Module: MASTER'S DISSERTATION
Modality: -
Language: Spanish
Year: 1
Semester: 2
N° of ECTS: 15
N° of hours of work by student: 375
Size of the Big Group: -
Size of the Reduce Group: -
Website of the subject: -

TEACHERS

Department: MICROBIOLOGY
Area: MICROBIOLOGY

Name	Mail	Work phone	Office	Tutoring hours
FRANCISCO MANUEL CAZORLA LOPEZ	cazorla@uma.es	952137587	DMb1 Dpto. Microbiología (Módulo de Biología, planta 1) - FAC. DE CIENCIAS	During the entire course: Mondays 12:30 - 14:00, Fridays 12:30 - 13:30, Wednesdays 16:00 - 17:30, Wednesdays 12:30 - 14:00, Tuesdays 12:30 - 14:00

RECOMMENDATIONS AND ORIENTATIONS

CONTEXT

It consists of an original research project (15 ECTS). The Master's Dissertation (TFM – Trabajo Fin de Máster) research project must be supervised by a tutor and be part of one of the research lines associated with the master's degree.

COMPETENCES

Specific Competences

1. General and basic competences.

1.1 CB1.- To possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context.

1.2 CB2.-To know how to apply acquired knowledge and problem-solving skills in new or unfamiliar within broader (or multidisciplinary) contexts related to their area of study.

1.4 CB4.- To be able to communicate their conclusions and the knowledge and rationale behind them to specialist and non-specialist audiences in a clear and unambiguous way.

1.12 GC7.- Ability to apply theory to practice.

1.13 GC8.- Ability to work in a team and to make public presentations.

2. Specific competences.

2.1 CE1.- Development of the capacity to assimilate advanced concepts by attending a series of scientific conferences given by experts, both in Spanish and English.

CONTENT OF THE SUBJECT

General criteria TFM

The TFM must fit within the field of Cellular and Molecular Biology, both disciplines being understood in a broad sense and taking into account the specialities included in the Master's degree. In any case, a substantial part of the methods used in the preparation of the research work must be specific to Cellular and Molecular Biology.

TRAINING ACTIVITIES

Face-to-face activities

Other onsite activities TFM

ASSESSMENT ACTIVITIES

LEARNING RESULTS / ASSESSMENT CRITERIA

Personalised monitoring of the TFM will be carried out by the tutors.

In addition, the progress of the dissertation will also be monitored by all the lecturers of the master's degree at a conference organised by the master's degree itself, which is held annually before the defence period.

ASSESSMENT PROCEDURE

Assessment procedure

The TFM must be presented in the form of a written report and evaluated by a committee appointed for this purpose in a public event.

The panel appointed for this purpose will take into account the following aspects when assessing and grading the TFM, and may assign a specific quantitative assessment to each of these aspects:

- Organisation of the report. Clarity in the presentation of the different sections.
- Quality of writing (syntax, spelling, punctuation).
- Quality and appropriateness of the report.
- Adequacy of the amount of information included in a work of these characteristics.
- Quality of the information (relevance, topicality, appropriateness to the subject).
- Interest of the results, appropriateness of the methodology, clarity and depth of the discussion and correct drawing up of the conclusions.
- Quality of oral expression.
- Quality of the defence in response to questions from the committee.

BIBLIOGRAPHY AND OTHER SOURCES

DISTRIBUTION OF STUDENT'S WORK

FACE-TO-FACE TRAINING ACTIVITIES

Description	Hours	Big Group	Reduced Group
Other practical activities TFM	12.5	Yes	No
TOTAL OF HOURS FACE-TO-FACE TRAINING ACTIVITIES	15		

NON-FACE-TO-FACE TRAINING ACTIVITIES

TOTAL OF HOURS NON-FACE-TO-FACE ACTIVITIES	322.5
TOTAL OF HOURS OF EVALUATION ACTIVITIES	37.5
TOTAL OF HOURS OF STUDENT'S WORK	375

ADAPTATION TO VIRTUAL MODE DUE TO COVID19

Formation activities

In scenario A, of bimodal or hybrid teaching, students' stay in research centers and laboratories will be reduced. In this case, the tutorials related to the TFM will be carried out in an online way, using the tools developed in the Virtual campus. The experimental load of the TFMs will be reduced to stay in the investigation laboratories strictly necessary. The defence process for the TFMs could be online if circumstances so advise.

As a contingency plan, in scenario B, of totally virtual teaching, the TFM will minimize the stay in the laboratories of research, prioritizing online work, carrying out TFMs with a more significant theoretical or bibliographic load. The defence of TFM will be carried out online, taking advantage of the synchronous communication tools included in the Virtual Campus.

Assessment procedures

In scenario A, of bimodal or hybrid teaching, the defence process of the TFM will preferably be maintained in person through the presentation of the TFM and subsequent discussion with an evaluating tribunal. The defence could be online if the circumstances advise.

As a contingency plan, in scenario B, of totally virtual teaching, the defence of the TFM, including the presentation and subsequent discussion with the evaluating court, will be carried out in an online way, taking advantage of the synchronous communication tools included in the Virtual Campus.

Contents

In scenario A, of bimodal or hybrid teaching, the contents will be adapted, reducing the presence of students in the laboratory research. The experimental designs will be discussed electronically, and the bibliographic consultation and writing works will be carried out outside research Centers.

As a contingency plan, in scenario B, of totally virtual teaching, the TFM will adapt the contents to minimize the component experimental, giving greater relevance to the introduction and bibliographic aspects of the work topic, carrying out work with a greater theoretical or bibliographic load.

Tutorials

In scenario A, of bimodal or hybrid teaching, and scenario B, of totally virtual education, the tutorials will be carried out through e-mail, chat, or videoconference software, available on the Virtual Campus.