

**COURSE DATA****Data Subject**

Code	43069
Name	Master's final project
Cycle	Master's degree
ECTS Credits	12.0
Academic year	2021 - 2022

Study (s)

Degree	Center	Acad. Period year
2139 - Master's Degree in Environmental Pollution, Toxicology and Health	Faculty of Biological Sciences	1 Other cases

Subject-matter

Degree	Subject-matter	Character
2139 - Master's Degree in Environmental Pollution, Toxicology and Health	6 - Master's final project	End Labour Studies

Coordination

Name	Department
ANDREU MOLINER, ENRIQUE	357 - Cellular Biology, Functional Biology and Physical Anthropol.

SUMMARY

The work of the master's degree will consist of the realization of a memory or project under the supervision of a tutor in which the knowledge and competence acquired by the student throughout the degree are highlighted.

These jobs will constitute an autonomous and personal task of the student.

The work will have to be carried out according to the title verification memory.

The Academic Coordination Committees of each master's degree may establish specific guidelines and establish evaluation criteria to seek to homogenize the preparation and evaluation of the work of the end of the master's degree.



Modalities

The modalities that may present the master's degree works are as follows:

- a) Academic review and literature research, experimental or research projects.
- b) Coordinated work with the realization of internships in companies or institutions, including the option of conducting external practices.
- c) Equivalent works performed as a result of a stay at another university, Spanish or foreign.
- d) Other jobs not included in the above modalities, second specified in the verified curriculum.

In any case they will be materialized in a report, project or research article, sent to a scientific journal of international prestige, in written form that will be accompanied, where appropriate, by the material deemed relevant.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

COMPETENCES (RD 1393/2007) // LEARNING OUTCOMES (RD 822/2021)

2139 - Master's Degree in Environmental Pollution, Toxicology and Health

- Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.
- Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.
- Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.



- Students should demonstrate self-directed learning skills for continued academic growth.
- Students should possess and understand foundational knowledge that enables original thinking and research in the field.
- Capacidad de utilizar las nuevas tecnologías de la información y la comunicación.
- Capacidad de análisis, síntesis y razonamiento crítico en la aplicación del método científico.
- Capacidad para transmitir ideas, problemas y soluciones y de comunicarlas a una audiencia profesional y no profesional.
- Capacidad para el aprendizaje autónomo y organizado y para la adaptación a nuevas situaciones.
- Comprensión del mundo natural como producto de la evolución y de su vulnerabilidad frente a la influencia humana.
- Saber utilizar las diferentes fuentes bibliográficas y bases de datos biológicos y usar las herramientas bioinformáticas.
- Desarrollo de un compromiso ético y capacidad de participación en el debate social.
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- Reconocimiento, respeto y promoción de los derechos humanos fundamentales, especialmente los de igualdad, de los valores democráticos y de los valores propios de una cultura de paz.
- Diseñar y ejecutar proyectos para aplicar indicadores de sostenibilidad ambiental.
- Realizar diagnóstico de problemas ambientales.

LEARNING OUTCOMES (RD 1393/2007) // NO CONTENT (RD 822/2021)

Students will perform an individual work, related to the use of the various experimental and/or bibliographic techniques studied, incorporating into a research group. A report of the Work shall be prepared and an oral presentation and defence shall be made.

Conduct research work based on studies that require the analysis or characterization of substances and is part of a broader line of research, with the necessary coordination.

Use the scientific databases, summaries, complete articles, documentation, bibliography, etc. necessary to have a clear view of the background, originality, interest and feasibility of a particular study.

Correctly use the most suitable advanced sample preparation methods for a particular study.

Correctly employ the most appropriate analytical technique to determine the components of interest in a particular study.

Work in the scope required for a specific study, with maximum safety for the operator and for the environment.

Apply the most appropriate calibration and data processing methods to a particular study.



Develop a clear and concise memory of the results obtained in a research paper.

To present and defend, before an Evaluation Committee, the development, results and conclusions of the work carried out.

Clearly and concisely explain the findings of the work done that may be of interest to a non-specialized audience.

WORKLOAD

ACTIVITY	Hours	% To be attended
Graduation project		100
Development of a final project	300,00	0
TOTAL	300,00	

TEACHING METHODOLOGY

Students perform individual experimental work, related to the employment of the various experimental techniques studied, joining a research group. A memoir of the Work is prepared and an exhibition and oral defense of it.

EVALUATION

SE8 - Activities evaluable by the Tutor
by conducting the experimental
Master's Degree Work (Tutor's report).

SE9 - Master's Degree Work Report
Presented.

SE10 - Presentation of the End of Work
Master's degree, exhibition and public defense.



TFMs EVALUATION CRITERIA

- 1.- CONTENTS: objectives achieved, originality, utility, complexity, methodology, own contributions, contribution to the research group, other...
- 2.- FORMAL ADEQUACY OF MEMORY: adaptation to the rules of elaboration, structure of work, indices, summaries, quality of figures and tables
- 3.- MANUSCRIPT: Spelling, writing and adapting to the scientific form
- 4.- EXPOSURE AND DEFENSE: Structure and quality of presentation, mastery of exposure and performance of the established time, capacity and style of the debate during Question Time
- 5.- TUTOR/DIRECTOR REPORT

ADDENDUM COVID-19

This addendum will only be activated if the health situation requires so and with the prior agreement of the Governing Council

The students carry out individual experimental work, bibliographic work or a project, related to the use of the various experimental techniques studied, joining a research group. A report of the work is prepared and an oral, face-to-face or telematic presentation and defence is made. In the case of confinement by COVID19 the work will be done semi-presentially or telematically. Likewise, the presentation and defence of the TFM's will be carried out telematically.