COURSE DATA

DATA SUBJECT

Code: 40148
Name: Master's final project
Cycle: Master's Degree
ECTS Credits: 12
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
2074 - Master's Degree in Basic and Applied Neurosciences	Facultat de Ciències Biològiques	1	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
2074 - Master's Degree in Basic and Applied Neurosciences	Master's final project	MASTER THESIS PROJECT

COORDINATION

SALVADOR FERNANDEZ-MONTEJO OTILIA ALICIA

AGUSTIN PAVON MARIA CARMEN

SUMMARY

The objective of the Master's Final Project is for the student to demonstrate maturity when addressing a topic specific to the degree independently. The assignment of 12 ECTS credits represents around 325 hours of work by the student which, full-time, would mean around 10 weeks.

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 / LEARNING OUTCOMES

2074 - Master's Degree in Basic and Applied Neurosciences

Adquirir destrezas en el manejo de las metodologías empleadas en las neurociencias y en el registro anotado de actividades, así como en el manejo de programas informáticos para la obtención y análisis de los datos y la exposición de los resultados

Apreciación del rigor, el trabajo metódico y la solidez de los resultados.

Comprender las aproximaciones experimentales y sus limitaciones, así como interpretar resultados científicos en neurociencias y saber elaborar y redactar informes que los describan

Conocer los principios éticos y legales de la investigación científica en neurociencias

Creatividad, iniciativa y espíritu emprendedor.

Saber aplicar el método científico a los estudios en neurociencias y poseer el espíritu crítico requerido para distinguir la información científica rigurosa de la pseudociencia

Saber comunicar el conocimiento sobre neurociencia y sus implicaciones a públicos especializados y no especializados de un modo claro y sin ambigüedades, usando la lengua propia y el inglés.

Saber trabajar de manera responsable y rigurosa en el laboratorio, considerando los aspectos de seguridad, manipulación y eliminación de residuos así como del correcto uso de los animales de experimentación y los principios éticos para la investigación en humanos.

Saber trabajar en equipos multidisciplinares y diseñar estrategias experimentales multidisciplinares en el ámbito de las neurociencias para la resolución de problemas biológicos complejos

Ser capaz de aplicar las técnicas de búsqueda, identificación, selección y recogida de información científica especializada, así como de los métodos que se han de tener en cuenta a la hora de examinar críticamente cualquier clase de fuentes y documentos científicos.

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.

DESCRIPTION OF CONTENTS

Master Thesis projects must be based on empirical work that covers all phases of the research. Given the nature of the thesis and the limited time for its development (around 325 hours), the results may not be sufficient to draw conclusions with statistical strength, that is, it may be a pilot experiment.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at supplementary activities	0,00
Monitoring and tutoring of the master's thesis	10,00
Presentation and defence of the master's thesis	2,00
Total hours	**12,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent preparation of the master's thesis	300,00
Preparation of the master's thesis project	23,00
Total hours	**323,00**

TEACHING METHODOLOGY

Discussion, reflection, and preparation of reports on practical tasks

Tutoring and guidance in monitoring reports through reasoned corrections discussed with students

Development and reporting of an original experimental procedure or theoretical review that represents an advance in knowledge

Oral and public presentation of research results in an organized and clear manner

EVALUATION

A written report submitted in a timely manner with the main results and conclusions of the Master's Thesis will account for 40% of the final grade.

An oral and public presentation of the Master's Thesis will account for 60% of the final grade

Clear copying or plagiarism of any assignment that is part of the assessment will result in the inability to pass the course, and the student will be subject to the appropriate disciplinary procedures. Please note that, in accordance with Article 13.d) of the University Student Statute (RD 1791/2010, of December 30), it

is the student's duty to refrain from using or cooperating in fraudulent procedures in the assessment tests, in the work they complete, or in official university documents.

REFERENCES