COURSE DATA

Data Subject	
Code	33824
Name	Degree Final Project in Biologia
Cycle	Grade
ECTS Credits	15.0
Academic year	2018 - 2019

Study (s)

Degree	Center	Acad. year	Period
1100 - Degree in Biology	Faculty of Biological Sciences	4	Other cases

Subject-matter

Degree	Subject-matter	Character
1100 - Degree in Biology	18 - Degree Final project	End Labour Studies

Coordination

Name	Department
MOLTO RUIZ, MARIA DOLORES	194 - Genetics
MONTERO ROYO, FRANCISCO ESTEBAN	355 - Zoology

SUMMARY

All the student’s learning during the three previous years of the degree converges in the Final Project (TFG, "Trabajo de Fin de Grado"), which represents the culmination of their ability to work as student. The main objective of this final stage is to allow the student to experience for himself the difficulties of practical work, facing the real limitations of research and technical processes and results production.

The skills acquired during the career will be applied to scientific activity, choosing the most suitable areas according to their curriculum. Specific intensifications will be achieved taking into account the optional topics selected by students through their career. It is intended that students develop the team work abilities, in particular scientific environments, thus facilitating the approach to the complex world of scientific production. The College will evaluate the training acquired along the degree by assessing the scientific maturity of the students, which will revert, if necessary, in appropriate adjustments to optimize the results.

The Final Project will be held as a practicum, in the form of scientific work within the Faculty, other external center or any affiliate organism collaborating in the External Practicum programs including this modality. UVEG will ensure sufficient opportunities to the totality of students, although they can also make the Final Project abroad, through any established form (stage, Leonardo ...). When the Final Project is carried out in a department of the Faculty, an academic supervisor of the University of Valencia will be assigned the each student, who will advice and direct him. When the Final Project is carried out in an external center, an academic supervisor of the Faculty will be assigned to the student and also a second tutor (external supervisor) from the external center, which will direct the work.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

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

Other requirements

The student must be registered in at least 150 credits, including all the basic topics of the degree, and have to be registered in all compulsory topics of the three first years before starting the Final Project.

OUTCOMES

1100 - Degree in Biology

- Capacidad de análisis, síntesis y razonamiento crítico.
- Capacidad de organización, planificación y gestión de la información.
- Utilización del lenguaje científico oral y escrito.
- Uso del inglés como vehículo de comunicación científica.
- Conocimientos de informática.
- Capacidad de resolución de problemas y toma de decisiones.
- Capacidad de divulgación del conocimiento científico.
- Habilidad para el trabajo en equipo y en contextos multidisciplinares.
- Capacidad de análisis crítico de textos científicos.
- Reflexión ética sobre la actividad profesional.
- Aprendizaje autónomo y en nuevas situaciones.
- Potenciar la creatividad, iniciativa y espíritu emprendedor.
- Apreciación del rigor, el trabajo metódico, y la solidez de los resultados.
- Potenciación de la capacidad de liderazgo.

- Saber diseñar experimentos y desarrollarlos mediante el uso de técnicas e instrumentales científicos adecuados.
- Saber analizar datos usando herramientas estadísticas apropiadas.
- Redactar y ejecutar proyectos en biología.
- Conocimiento de sistemas de gestión en tareas profesionales en biología.

LEARNING OUTCOMES

- Ability to handle bibliographic resources related to Biology and to deeply analyze any specific biological topic.

- Experimental design and development, including the selection of the proper techniques and scientific instrumental tools.

- Understanding and proper use of scientific language for the description of experimental processes.

- Data analysis and use of suitable statistical tools.

- Ability for team work in laboratory environments.

WORKLOAD

ACTIVITY	Hours	% To be attended
Graduation project		100
Development of individual work	20,00	0
Study and independent work	163,00	0
Readings supplementary material	10,00	0
Preparation of evaluation activities	7,00	0
TOTAL	**200,00**	

TEACHING METHODOLOGY

The student have to develop all the stages of the final project, independently of the work place and the selected modality, and he will have to establish, by way of guidance:

1) Introduction: state of the art, importance and objectives.

2) Methodology and/or work plan.

3) Results

4) Discussion and conclusions

5) Bibliographic references.

6) Resources and expenses: ethical and environmental aspects, permissions, security and confidentiality, when needed.

In some cases the students can include additional supplementary material (apendixes, computer files, etc.). In any case, the content and pertinence of such supplementary material must be accepted by the tribunal o of the Final Project.

The tutor will advise the student during the course of the project. The tutor will have a meeting with the student befote the project starts, establishing the aims, deadlines, available and needed resources. As well as the ethics, environmental aspects, ect. The posterior periodical follow-up meetings will be scheduled. The tutor will finally have to accept the presentation of the project, and to write a confidencial report on the student work. If the final project is supervised by an external supervisor, the academic supervisor will only have to watch that the student accomplish the administrative and academic requirements.

Ethics and responsibility

The student and the laboratory hosting the Final Project are responsible for the ethical, environmental, legal and security issues affecting the project design. All the work on the Final Project will be conducted in strict compliance of the bioethics and biosafety rules applying to the particular project.

Also compliance in the management of wildlife and the work on protected areas has to be ensured. Those Final Projects performed within projects with confidentiality clauses must have the prior approval of the entity imposing the clause.

EVALUATION

At the end of Final Project, the student will produce an original work, written in scientific-technical format, to be defended in front of a tribunal appointed for this purpose. The UVEG will establish timelines and mechanisms for the submission of the work and its public defense.

The written work once finished and approved by the implied parts, will be submitted to an off-site review. The mark will be calculated from the evaluation of the supervisor, as well as from those of specialist reviewers. These reviewers will be named by the TFG committee, elected from the academic TFG supervisors and other specialists. The numeric mark at this stage will range between 0 and 10, being “excellent” the maximum qualification.

Additionally, the student will be able to aim for the distinction mark (“Matrícula de Honor”) by a public viva with a tribunal.

REFERENCES

Basic

- No procede
- No procedeix
- Does not apply