COURSE DATA

DATA SUBJECT

Code: 33203
Name: External internships
Cycle: Undergraduate Studies
ECTS Credits: 12
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
1111 - Grado en Biotecnología	Facultat de Ciències Biològiques	4	Indefinite (Individuals)

SUBJECT-MATTER

Degree	Subject-matter	Character
1111 - Grado en Biotecnología	External internships	INTERNSHIPS

COORDINATION

GARCIA ROBLES INMACULADA ROSA

SUMMARY

External practices undertaken as a compulsory subject in the last year of the degree represent a first contact of the student with the working world. Since students have previously completed the compulsory subjects of the degree, the skills acquired during the race to professional activity and work, choosing to do the areas most suitable performance apply. Ultimately, it is intended that students begin to work together in specific working environments, and facilitate employability and graduates. Faculty evaluate the training acquired during the degree for employability of students, which reversed, if necessary, in appropriate adjustments intended to optimize it.
The overall objectives of these practices are: (1) Know the working world. (2) Apply the skills acquired during the degree development of professional activity and work. (3) Working Group in the workplace. (4) To facilitate the employability of graduates. (5) Assess the extent to which the training acquired fits employability.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

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

OTHER REQUIREMENTS

Students who enroll matter "external practices" should be passed all subjects of the first two years and half of the credits of the subjects in the third year.

COMPETENCES / LEARNING OUTCOMES

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Acquire appropriate professional skills.

Acquire suitable professional skills.

Actuar con autonomía en el aprendizaje, tomando decisiones fundamentadas en diferentes contextos, emitiendo juicios en base a la experimentación y el análisis y transfiriendo el conocimiento a nuevas situaciones

Apply analytical, synthetic and critical thinking skills in the application of the scientific method.

Apply and understand knowledge in biotechnology and use that knowledge in professional contexts.

Assimilate ethical and legal principles in scientific research in biotechnology.

Be able to work under the orders of heads.

Colaborar eficazmente en equipos de trabajo, asumiendo responsabilidades y funciones de liderazgo y contribuyendo a la mejora y desarrollo colectivo

Communicate ideas, problems and solutions within the field of biotechnology.

Conocer los elementos fundamentales de la comunicación y percepción pública de las innovaciones biotecnológicas y de los riesgos asociados a ellas

Conocer y comprender, desde el propio ámbito de la titulación, las desigualdades por razón de sexo y género en la sociedad; integrar las diferentes necesidades y preferencias por razón de sexo y de género en el diseño de soluciones y resolución de problemas

Contribuir en el diseño, desarrollo y ejecución de soluciones que den respuesta a demandas sociales, teniendo en cuenta como referente los Objetivos de Desarrollo Sostenible

Demostrar razonamiento crítico y autocrítico en el ámbito de la titulación, considerando aspectos tales como la ética profesional, los valores morales y las implicaciones sociales de las diferentes actividades realizadas

Desarrollar una buena actitud de trabajo en grupo, respetando a los compañeros y dejando de lado prejuicios y discriminaciones.

Design and carry out a complete protocol for obtaining and purifying a biotechnological product.

Design prospective market research for a biotechnological product.

Develop cooperation skills with other professionals.

Develop skills to cooperate with other professionals.

Disseminate and engage in public debate on issues related to biotechnology and its applications.

Familiarity with the least attractive and routine aspects of the profession.

Participate in multidisciplinary teams, engaging in teamwork and collaboration.

Propose creative and innovative solutions to complex situations or problems, typical of the area of ¿¿¿¿connection, to donate responses to the various professional and social needs

Saber comunicarse de manera efectiva, tanto de forma oral como escrita, adaptándose a las características de la situación y de la audiencia

Search for and retrieve information from major patent databases and prepare the documentation required for patent applications of biotechnological products.

Ser capaz de evaluar las posibles consecuencias medioambientales de su actividad profesional.

Ser capaz de evaluar los posibles riesgos laborales derivados de su actividad profesional.

Ser capaz de gestionar relaciones con el cliente de una empresa

Tener la capacidad de detectar situaciones en la empresa que requieran la intervención de un profesional y de utilizar y aplicar los recursos para dicha actuación

Tener una visión integrada del proceso I+D+i desde el descubrimiento de nuevos conocimientos básicos hasta el desarrollo de aplicaciones concretas de dicho conocimiento y de la introducción en el mercado de nuevos productos biotecnológicos

The ability to apply and develop this attention.

The ability to detect needs and situations that require professional attention.

The ability to handle different relationships with clients.

The ability to identify useful resources to put this attention into practice.

Tomar conciencia del componente ético y los principios deontológicos del ejercicio de la profesión.

Understand and apply the criteria for evaluating biotechnological risks.

Use English to write reports and to interpret information from protocols, manuals and databases.

Work in laboratories, including safety procedures, waste management and accurate activity logging.

Work under the direction of superiors.

DESCRIPTION OF CONTENTS

Research & Development

Area or areas of professional activity: Developmental and Stress Biology in Plants, Structural Biology, Cell Biology and Pathology, Clinical Biochemistry, Biochemistry and Molecular Biology, Genetic Engineering, Environmental Biotechnology, Food Biotechnology, Cytomics, Genetic Improvement, Genomics and Proteomics, Biomedical Research, Oncology, Metabolic Pathology, Peptides and Proteins, Plant Protection and Biotechnology, Assisted Reproduction.
Profile of a company, institution or entity tutor: Professional with experience in scientific research, management of laboratory techniques and knowledge in specific areas of experimental sciences and scientific development.

Competences or learning outcomes: those indicated as general competences and learning outcomes of the subject External Internships.

Bioindustry

Area or areas of professional activity: Biomedical, agri-food, chemical, pharmaceutical industry, production and quality management, chemistry, biochemistry, microbiology, toxicology, physiology, pharmacology, epidemiology.
Profile of a company, institution or entity tutor: Expert in production and quality management in agri-food, chemical, pharmaceutical, biochemical, biomedical or microbiological industries.

Competences or learning outcomes: those indicated as general competences and learning outcomes of the subject External Internships.

Commerce and Marketing

Area or areas of professional activity: Products and services related to Biotechnology.
Profile of a company, institution or entity tutor: Professional with experience in marketing of biotechnological products or scientific services.

Competences or learning outcomes: those indicated as general competences and learning outcomes of the subject External Internships.

Business Management and Organization

Area or areas of professional activity: Management or senior management in biotechnology companies

Profile of a company, institution or entity tutor: Expert in administration and management of biotechnology companies.
Competences or learning outcomes: those indicated as general competences and learning outcomes of the subject External Internships.

Professional Healthcare

Area or areas of professional action: Clinical laboratory, human reproduction, public health, nutrition and dietetics, animal and plant health.
Profile of a company, institution or entity tutor: Professional in clinical laboratory, public health or nutrition, with experience in laboratory techniques and clinical analysis.

Competences or learning outcomes: those indicated as general competences and learning outcomes of the subject External Internships.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at the internship centre	260,00
Attendance at supplementary activities	0,00
Monitoring and tutoring of internships	5,00
Total hours	**265,00**

NON PRESENCIAL ACTIVITIES

Activity	Hours
Independent study and work	20,00
Preparation of supplementary reports	0,00
Preparation of the internship report and evaluation of the internship	15,00
Total hours	**35,00**

TEACHING METHODOLOGY

- Previous documentation regarding the activities undertaken in the company.
- Required the company to carry out the activities established in the stipulated hours assistance.
- Preparation of summary or practicum work memory.

EVALUATION

According to the activities developed in the company will be allocated to the different departments of the Faculty mentoring them. University tutors will be responsible responsible for explaining to the students the

assessment criteria practicum memory to be established at a meeting with the student before the start of the internship.

Evaluation

The student must meet the following minimum requirements to pass the Placement:
· Have attended the tutorials and followed the activities proposed for the same by the tutor of the University.

· Have fulfilled solvency work plan proposed by the company tutor, school or institution.

· Have submitted the memory * and the following documents for completion and evaluation of practices completed by the student and the tutor of the company within 10 days after completion of the practicum:

-Completion practices Document
-Form Placement assessment completed by the student.

The University tutor learning assessed taking into account:
(a) The practicum report presented to the completion. The points awarded will be considered in the following aspects:
Quantity and quality of the activities carried out by the student
Memory Adequacy standards scientific writing and the criteria previously established by the University TutorClarity, accuracy and linguistic correctness writing

(b) The company tutor assessed through a questionnaire, the skills acquired by the student. The assessment issued by the company tutor will be based on attendance, ability to integrate into the working group and the activity undertaken by the student.

REFERENCES

- No procede