

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

Code	33825
Name	External Internship
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	17 - External internship	External Practice

Coordination

Name	Department
CARMONA NAVARRO, MARIA JOSE	275 - Microbiology and Ecology
PEÑARRUBIA BLASCO, DOLORES	30 - Biochemistry and Molecular Biology

SUMMARY

External practices made a compulsory subject in the last year of the degree and they are a first contact between the student and a workplace. Since students have previously completed the grade, they should apply the skills acquired to the professional career and work, choosing the most appropriate areas of performance. To carry out an intensification the specific background of each student in the fourth degree course will take into account. Ultimately, it is intended that students start working in groups, in particular working environments to facilitate the employability of the graduates. The University will assess the training acquired during the degree for the employability of students, which will revert, if necessary, in appropriate adjustments aimed to optimize their training.

The general objectives of these practices are: (1) Know the workplace. (2) Apply the skills acquired during the development level of professional activity and work. (3) To work in group at the workplace. (4) To facilitate the employability of graduates. (5) Assess the extent to which the training received meets employability.

The degree of Bachelor in Biology has two possible intensifications, "in Biodiversity and Conservation" and "Health Foundations in Biology." The contents of the external practices depend on the



intensification and indicated in the corresponding programs. However, these contents may vary depending on the offer made by the companies.

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 have passed 150 ECTS

OUTCOMES

1100 - Degree in Biology

- Reconocer el papel propio en la estructura del entorno profesional y los recursos disponibles.
- Reconocer posibles aportación personales para la mejora del trabajo.
- Desarrollar habilidades de cooperación con otros profesionales.
- Asumir los aspectos rutinarios y menos atractivos de la profesión.
- Adquirir las aptitudes y actitudes profesionales idóneas.
- Tomar conciencia del componente ético y los principios deontológicos del ejercicio de la profesión.
- Capacidad de análisis y de síntesis.
- Capacidad de divulgación del conocimiento científico.
- Promover y respetar la igualdad de oportunidades.
- Apreciación del rigor y trabajo metódico.
- Potenciación de la capacidad de liderazgo.
- Desarrollo de actitudes y valores de sostenibilidad.
- Uso adecuado de técnicas instrumentales.

LEARNING OUTCOMES

- Manage basic literature sources related to the subject and acquire the capacity to deepen their knowledge in a specific topic related to the placement.
- Understand and use appropriate terminology to describe the processes used.
- Acquire skills in the employment relationship with employees of the company.



DESCRIPTION OF CONTENTS

1. External practice program for graduates with intensification "Biodiversity and Conservation Complements"

1. Scientific research and development (Biodiversity, ecology, genetics, environment, marine biology, biogeography, agriculture, food, genomics, proteomics, biotechnology, reproduction, etc..).
2. Industry (Chemical and food industry, tasks in the technical areas of production and quality management in relation to chemistry, biochemistry, microbiology, toxicology and physiology).
3. Agropecuaria (Optimization of crops and cultures of plants, animals and fungi. Search for new exploitable living resources. Genetic improvement by classical methods or by obtaining transgenic, by optimizing growth conditions, nutrition and improving reproduction. Cultivation of animal, plant, fungal and microbial species for conservation or improvement).
4. Environment (Management, conservation and control of territory. Management of forestry, agriculture and marine resources. Waste management. Impact assessment and restoration of the natural environment. Organization and management of protected natural areas, gardens and museums. Studies of agricultural, industrial and urban pollution. Sustainability, planning and rational exploitation of natural resources).
5. Trade and marketing (of products and services related to biological science in all areas described in the previous sections).
6. Management and business organization (leadership tasks or high business management in areas related to the profession of biologist).
7. Information, documentation and dissemination (museums, parks, zoos, editorials, press offices, enterprises environmental education, scientific foundations ...).
8. International Cooperation and Development

2. External practice program for graduates with intensification "Health Foundations in Biology (1)"

1. Health professional (clinical laboratory, human reproduction, health, nutrition and dietetics, animal and plant health). In the clinical laboratory in the fields of biochemistry, clinical analysis, microbiology and parasitology, immunology, pharmacy and radiopharmacy and radiation physics. In other fields of human health as human reproduction, in fertilization "in vitro" and other techniques of "assisted reproduction" and genetic counseling. In public health practices in agro-food and environmental areas, taking part in all aspects of risk analysis (identification , management and communication).
2. Professional of scientific research and development (in all areas of fundamental and applied progress of the experimental sciences and life, developing their work in basic research centers and research and development departments of companies, industries, hospitals). In the progress of science



and its social impact (genomics, proteomics, biotechnology, reproduction and human health, animal, plant and animal diversity, environment, agriculture, food, etc.).

3. Professional of the industry (pharmaceutical, food and chemical, mainly responsible of tasks in developing the technical areas of production and quality management, from chemistry, biochemistry, microbiology, toxicology, physiology, pharmacology and epidemiology and other scientific perspectives are reflected in their exercise as a professional research and development.

3. External practice program for graduates with intensification "Health Foundations in Biology (2)

4. Professional in marketing (product and services related to biological science in all areas described in the previous sections).

5. Professional teachers (in secondary education, university and professional training and postgraduate studies or matters related to scientific knowledge in general and specifically with the life and experimental sciences. Biologist also exercises direction and management of centers teachers and education adviser for social immersion of scientific culture).

WORKLOAD

ACTIVITY	Hours	% To be attended
Internship		100
Internship	300,00	0
TOTAL	300,00	

TEACHING METHODOLOGY

- Documentation relating to prior actions to be taken in the company.
- Mandatory attendance at the company to carry out the activities in the hours stipulated.
- Preparation of working memory summary or practicum.

EVALUATION

According to the activities developed in the company, the students will be allocated to the different departments of the Faculty mentoring them. To do this, the coordinators responsible for the intensifications will distribute to the University tutors the most related practices. Also take into account that the number of practices assigned to the tutors is equitable. University tutors will be responsible for explaining to the students the evaluation criteria of the practicum memory which will be established at a meeting with the student before the start of the practise.



The University tutor will evaluate the training taking into account:

- a. The memory of the practicum presented at the end of it, which will be considered 45 % of the final value. This rating will take into account the adequacy of the report to the standards of scientific writing and the criteria previously established by the University Tutor.
- b. Student participation in tutorials and additional activities (eg, data analysis, reporting, etc.) It will be considered up to 5%. These activities shall be considered in the OPAL course, "Skills for better employment".
- c. The company tutor will evaluate the student through a questionnaire considering the skills acquired by the student. The calibration by the company tutor will be based on attendance, ability to integrate into the working group and the activity undertaken by the student. The tutor of the company will be the 50 % of the final value.

The final grade, especially with regard to the distribution of *Matrículas de Honor* if applicable, will be made by the Practice Commission of the Biology Grade, once compiled the ratings given by academic tutors and companies, following the rules of the University of Valencia for the various calls for the three periods of conducting business practices (winter, spring and summer).

For a student to be considered a candidate to obtain *Matrícula de Honor* shall meet the following requirements:

1. - The candidate must have obtained the highest score in each of the three sections described above rating (memory, participation and opinion Tutor of the company).
2. - The University Tutor must request and justify the Commissioners of Biology traineeships deemed as a candidate for the student and provide the Commission with documents of the evaluation for each of the three sections: memory, assessments, books, exercises, presentations, evidence, etc.
3. - The documentation will be consulted by the faculty of the Practice Commission to assess the degree of whether or not to grant the requested *Matrícula de Honor*. In the event that have been proposed and evaluated positively a greater number of candidates to *Matrículas de Honor* can be granted, the members of the Commission will decide by vote granting the potential *Matrículas de Honor* among candidates.
- 4.- To apply for advance notice they will perform Placement in the first quarter.



REFERENCES

Basic

- Does not apply