

Degree programme	Type	Course
Genetics	PRO	4

Contact lecturer

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Group languages

You can consult this information at the [end](#) of the document.

Prerequisites

This is an optional subject of 12 ECTS of the fourth year of the degree. As a requirement to apply, you must have completed the first year and 120 ECTS from the first three years, be enrolled at the time of starting the stay and have paid the accident and civil liability insurance provided in the fee regulations.

Objectives

This optional course must be preferably taken during the fourth year or in the summer after completing the activities programmed for the third year of the degree.

The objectives of the subject are:

- To promote the student's integration in companies, hospitals or research groups, either in a public or a private entity.
- To learn and to apply Genetics' techniques that are currently used in an industrial ambit or in research projects.
- Prepare a report of the internship experience.

Learning outcomes

- CM44 (Integrate the knowledge and technical skills in the work dynamics and projects of the host entity.) Integrate the knowledge and technical skills in the work dynamics and projects of the host entity.
- CM45 (Resolve professional situations through decision-making based on critical analysis and personal initiative.) Resolve professional situations through decision-making based on critical analysis and personal initiative.
- CM46 (Collaborate in professional practice applying criteria of ethical responsibility, sustainability and

respect for diversity.) Collaborate in professional practice applying criteria of ethical responsibility, sustainability and respect for diversity.

- KM32 (Identify computational and statistical tools applied to the analysis of genetic data in the professional environment.) Identify computational and statistical tools applied to the analysis of genetic data in the professional environment.
- KM33 (Relate genomic principles to ethical, regulatory, management and gender implications in professional practice.) Relate genomic principles to ethical, regulatory, management and gender implications in professional practice.
- SM39 (Apply experimental techniques and standardised genetic methodologies in a real production or research environment.) Apply experimental techniques and standardised genetic methodologies in a real production or research environment.
- SM40 (Apply the safety, biosecurity and waste management protocols in force in the host entity.) Apply the safety, biosecurity and waste management protocols in force in the host entity.
- SM41 (Analyse specialised scientific and technical information for practical application in the methodologies and work protocols of the collaborating entity.) Analyse specialised scientific and technical information for practical application in the methodologies and work protocols of the collaborating entity.

Contents

The content of the subject is variable, as it will depend on the entity where the internship is done. However, the content will always be closely related to Genetics. In order to perform an activity related to the field of Genetics, the coordinator of the course must give his/her approval to the internship proposed by the student.

Hi ha dues modalitats de pràctiques:

- Places oferides internament per la UAB, on els estudiants tindran un tutor acadèmic.
- Places proposades per l'alumne, on els estudiants seran tutoritzats per un membre de l'equip docent de l'assignatura i per un tutor extern.

There are two types of internships:

- Posts internally offered by UAB, in which students will have an academic tutor.
- Posts proposed by the student, in which students will be tutored by a member of the course's teaching team and by an external tutor.

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
Internship	280	11.2	CM44, CM45, CM46, KM32, KM33, SM39, SM40, SM41

The internship may be done in three different periods (summer, first and second semester). The duration of

each period will be made public every academic year on the website of the Faculty of Biosciences. At the time of choosing the period, it is necessary to take into account that the delivery date of the report, as it should be at least 2 weeks before the closing of the course transcript.

The student will find all the general and specific information related to this subject on the website of the Faculty entitled Academic Practices of Degree and in the Academic Practices section of the Virtual Campus. In addition, the Faculty and/or the professor in charge of the subject will organize a general informative session destined mainly to the students of the third and fourth year.

In addition, the student will also find all the information related to this subject, how to formalize the request and all the procedures derived from the adjudication of the internship post in the Faculty's web page titled "Academic Practices in Entities".

Annotation: within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continuous assessment activities

Title	Weight	Hours	ECTS	Learning outcomes
Tutor's final evaluation	60%	0	0	CM44, CM45, CM46, KM32, KM33, SM39, SM40, SM41
Final Report	40%	20	0.8	CM44, KM32, KM33, SM39, SM41

The course's assessment will consist of two parts:

1) Student's final report (40% of the final grade). The report will be evaluated by a member of the course's evaluation committee.

2) The Academic Tutor / External Tutor's evaluation of the student (60% of the final grade). The tutor has the power over the student's evaluation and can only be modified in cases where strong evidence of its impartiality is presented.

- Indicators for the evaluation of the final report (weight 40%)

· Following the instructions for the preparation of the final report and the adequacy of the contents in the different sections.

· Research and selection of information. Correct citation of the bibliography.

· Written communication.

· Synthetic capacity.

· Critical capacity.

· The quantity and quality of the work carried out will be assessed globally.

· The correct use of English will be valued positively.

- Regulations for the preparation of the final report

The final report is personal. The extension of the final report will have a maximum of 15 pages, without including the cover, index and references. It will be written in Word or equivalent format with 1.5 line spacing, Verdana font of size 10, and the number of each page will be indicated.

The final report must consist of the following sections:

- Cover: Title, name of the student, the tutor(s) and the research group(s), the time period of the internship and date of delivery to the responsible professor.

- Index

- Theoretical introduction or technology in which the work is framed. It is necessary to include bibliographical references.

- Work aim(s)

- Description of the entity.

- Methodologies used by the student. It is requested to include bibliographical references, if needed. Work schedule.

- Description of the results.

- Application of regulations, ethical and environmental aspects, if applicable.

- Bibliography.

- ANNEX 1. This annex of the report must only be submitted to the person responsible for the course, and it will consist of three sections:

- Evaluation of the institution or research group and suggestions for improvement.
- Personal evaluation of what the placement has contributed to the student, taking into account their professional future.
- Description of the use of artificial intelligence (AI) tools in the preparation of the report. It is necessary to indicate which tools were used, explain how they were used, and specify how they improved the final outcome of the work.

The final report will be delivered electronically in PDF format to the course's coordinator a maximum of 15 days after the end of the internship and a maximum 15 days before the closing of the course's transcript. Exceptional cases must be authorized by the course coordinator.

The course coordinator must receive the tutor's evaluation and the report written by the student in order to assess the student's work. In the case of not meeting one of these requirements, the final grade will be "Not assessable".

Total or partial plagiarism in the development of the report will result in a 0.

The Regulations of the subject, which includes the instructions for the preparation of the final report, can be found on the Faculty's "Academic Practices in Entities" website.

* Use of AI by students

In the preparation of the practical report, the use of Artificial Intelligence (AI) tools is allowed as support for information searching, content organization, writing improvement, or language revision.

However, the use of AI is not permitted for the total or partial generation of the report content that must result from the student's own experience, analysis, and reflection during the practical work.

Students must be able to explain, justify, and defend the content of their report, as well as demonstrate their understanding of the procedures, results, and conclusions described.

Furthermore, the use of AI tools must be explicitly declared, indicating which tools were used and for what purpose. Lack of transparency in the use of AI in this assessed activity will be considered a breach of academic integrity and may result in partial or total penalties in the grade, or more severe sanctions in serious cases.

Any irregularity committed in an assessment activity (academic fraud, plagiarism, or misuse of AI, unless such use is explicitly authorized in the course guide) that may lead to a significant alteration of the grade will result in that activity being graded with a 0.

If the course guide establishes that obtaining a minimum grade in this assessment is a mandatory requirement to pass the course, or if multiple irregularities occur in the assessment activities of the same course, the final grade for the course will be 0.

Furthermore, disciplinary proceedings may be initiated against any student who commits any of these irregularities.

*Single evaluation: This course does not include a single evaluation system.

Bibliography

The Bibliography will depend on the specific task that each student will do during their internship according to what they need to prepare the final report.

Software

No specific software is available.

Course groups and languages

The information provided is provisional until November 30. After this date, you will be able to consult the language of each group through this [link](#). To access the information, you will need to enter the course CODE

Type of teaching	Group	Language	Semester	Shift
(PEXT) Pràctiques externes i pràcticum	99	Catalan/Spanish	Undefined	morning-mixed
(PEXTintern) Pràctiques externes i pràcticum (amb supervisió interna)	99	Catalan/Spanish	Undefined	morning-mixed