UAB
Universitat Autònoma de Barcelona

# Practicum

Code: 100974
ECTS Credits: 12

2025/2026

| Degree | Type | Year |
|---|---|---|
| Microbiology | PRO | 4 |

## Contact

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## Teachers

Olga Sanchez Martinez

## Teaching groups languages

You can view this information at the end of this document.

## Prerequisites

To apply for the course, you are required to have passed the degree first year and, at least, 120 credits out of 180 credits in the first three years.

In addition, you must be enrolled at the time when you start the internship and have paid the fees for the accident and civil liability insurance, as informed in the tax regulations.

## Objectives and Contextualisation

This is an elective course that should be taken preferably during the fourth year or the summer after finishing the programmed activities of the degree third year.

The objectives of the course are:

. To promote the integration of the student in the corporate world or in a research group, either in a public or private institution.

. To identify biochemical or molecular biology techniques that are typically used in a industrial setting or in specific research projects.

. To apply biochemical or molecular biology techniques that are typically used in a industrial setting or in specific research projects.

. To generate a report on the practice internship in an autonomous manner.

## Learning Outcomes

1. CM26 (Competence) Design experiments in a professional environment related to microbiology, applying the theoretical knowledge acquired and assessing their social, economic and environmental impact, and to provide innovative responses to the needs and demands of society.
2. CM27 (Competence) Act in a professional field related to microbiology with ethical responsibility, gender perspective and respect for fundamental rights and duties, diversity, democratic values and Sustainable Development Goals.
3. CM28 (Competence) Interpret experimental results in the real framework of a laboratory or company to develop and defend academic or professional work in the field of microbiology, whether in English or in one's own language or others.
4. KM37 (Knowledge) Identify, in a professional environment, the usefulness of the most commonly used analytical and laboratory techniques in microbiology.
5. KM38 (Knowledge) Define, in a professional environment, the elements of biosafety and good laboratory practices in various experimental areas of microbiology.
6. SM35 (Skill) Use bibliography, databases and other computer resources to address specific problems in various experimental areas of microbiology in a professional environment, either in English or in one's own language or others.
7. SM36 (Skill) Use the main techniques of experimentation in biosciences in a professional environment in different areas of microbiology.
8. SM37 (Skill) Apply, in a professional environment, guarantee and quality control systems in R&D and production processes where microorganisms are involved.

## Content

The contents of this course are variable, depending on the specific institution in which the student internship takes place.

However, in all cases, the contents of the proposed activity should keep a close relationship with Microbiology, be it in a company or in a research group.

Two kinds of modalities exist:

Modality A: Internal positions UAB

Modality B: External positions

Students in Modality A should have an Academic Tutor.

Students in Modality B should be tutored by an External Tutor and an Academic Tutor from the UAB.

The course can be taken in either one of the following periods: summer of 3rd year, 1st semester of 4th year, 2nd semester of 4th year, or summer of 4th year. The duration of each period will be published each academic year on the website of the *Facultat de Biociències*.

## Activities and Methodology

| Title | Hours | ECTS | Learning Outcomes |
|---|---|---|---|
| Type: Supervised | | | |
| Practice internship | 280 | 11.2 | CM26, CM27, CM28, KM37, KM38, SM35, SM36, SM37, CM26 |
| Type: Autonomous | | | |
| Final written report preparation | 20 | 0.8 | CM28, KM37, KM38, SM35, CM28 |

The students may find all the relevant course information, in the website of the *Facultat*, section *Pràctiques Acadèmiques en Entitat*s.

Each academic year, the responsible for the course jointly with the Facultat will organize an orientation session for third and fourth year students enrolled in the Microbiology degree.

For the preparation of the report, the use of Artificial Intelligence (AI) is permitted but in a restricted manner. Therefore, the use of AI is permitted exclusively in support tasks, such as bibliographic or information searches, text correction or translations. The student must clearly identify which parts have been generated with this technology, specify the tools used and include a critical reflection on how these have influenced the process and the final result of the activity. The lack of transparency in the use of AI in this assessable activity will be considered a lack of academic honesty and may lead to a partial or total penalty in the grade of the activity, or greater sanctions in serious cases.

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

## Continous Assessment Activities

| Title | Weighting | Hours | ECTS | Learning Outcomes |
|---|---|---|---|---|
| Evaluation report by academic or external tutor | 60 | 0 | 0 | CM26, CM27, CM28, KM37, KM38, SM35, SM36, SM37 |
| Final written report | 40 | 0 | 0 | CM26, CM27, CM28, KM37, KM38, SM35, SM36, SM37 |

The course assessment will include the following items:

- The evaluation of the final written report prepared by the student (weight in the final score: 40 %). The use of English in the report will be considered for up to additional 0.5 points in this section.

- The evaluation report on the student's performance issued by the Academic Tutor (Modality A) / External Tutor (modality B) (weight in the final score: 60 %).

The evaluation process of the final written report will be regulated through rubrics that the coordination team will publish in the Virtual Campus of the subject.

The final written report must be delivered electronically to the course coordinator not later than 15 days after the end of the stay. In exceptional cases, which must be authorized by the course coordinator, this period may be extended up to a maximum of 30 days.

In order for the student to be evaluated, the course coordinator must receive the tutor's evaluation report and the written report prepared by the student. If any of these requirements is not met, the student's grade will be *No avaluable*.

The instructions for the preparation of the final written report can be found in the *Facultat de Biociències* website, section *Pràctiques Acadèmiques en Entitats*.

## Bibliography

The contents of the Bibliography list may vary depending on the specific work that each student performs during his/her practice internship and what he/she may need to prepare the final written report.

## Software

No specific software is required to take this subject.

## Groups and Languages

Please note that this information is provisional until 30 November 2025. You can check it through this link. To consult the language you will need to enter the CODE of the subject.