

Degree programme	Type	Course
Microbiology	OP	4

Contact lecturer

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Teaching staff

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Group languages

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

Prerequisites

Although there is no official prerequisite, students are advised to review the concepts that refer to the microbial world, previously studied in the subjects of the 2nd and 3rd course of the Microbiology Degree.

Objectives

It is an optional subject of the Microbiology degree that introduces students to the different professional fields in which a microbiologist carries out his/her work. A general overview of the fields of work of microbiologists will be given, both in the business and research fields.

Learning outcomes

- CM23 (Explain the contribution of microbiology professionals to the current socio-economic, biomedical and environmental advancement, in order to provide innovative responses to the needs and demands of society.) Explain the contribution of microbiology professionals to the current socio-economic, biomedical and environmental advancement, in order to provide innovative responses to the needs and demands of society.
- CM24 (Critically assess the current role of women in the professional field of microbiology.) Critically assess the current role of women in the professional field of microbiology.
- CM25 (Review in an integrative way the knowledge and skills that are applied in the different professional areas of microbiology, as well as the demands and challenges that these areas present.)

Review in an integrative way the knowledge and skills that are applied in the different professional areas of microbiology, as well as the demands and challenges that these areas present.

- KM34 (Identify the different areas of work of graduates in microbiology both in their business and research angle, as well as in teaching and dissemination.) Identify the different areas of work of graduates in microbiology both in their business and research angle, as well as in teaching and dissemination.
- KM35 (Describe the contribution of microorganisms to the industrial, biotechnological, environmental, biomedical or agri-food sectors from the different professional fields of microbiology.) Describe the contribution of microorganisms to the industrial, biotechnological, environmental, biomedical or agri-food sectors from the different professional fields of microbiology.
- KM36 (Define the future perspectives of microbiology based on current scientific contributions in this field in both basic and applied research.) Define the future perspectives of microbiology based on current scientific contributions in this field in both basic and applied research.
- SM34 (Relate concepts of the biology of microorganisms and the tools for their study and manipulation, with their diverse applications in the professional fields of microbiology.) Relate concepts of the biology of microorganisms and the tools for their study and manipulation, with their diverse applications in the professional fields of microbiology.

Contents

The subject will provide knowledge on the following topics:

- Incorporation of the microbiologist in the professional field. The role of the microbiologist in the agrifood sector, environmental, industrial, education, human health, etc ..

- Research in basic and applied microbiology. Research developed in our environment related to different areas of microbiology.

Learning activities and methodology

Title	Hours	ECTS	Learning outcomes
Individual study	45	1.8	CM23, CM24, CM25, KM34, KM35, KM36, SM34
Individual reading	40	1.6	CM24, CM25, KM34, SM34
Visits	15	0.6	CM24, CM25, KM35, KM36, SM34
Seminars	30	1.2	CM23, CM24, CM25, KM34, KM35, KM36, SM34
Tutorials	5	0.2	CM25, SM34
Preparation of test questions	6	0.24	CM24, CM25, KM34, KM36, SM34

Seminars:

- Sessions given by specialists in different fields of basic and applied Microbiology. The sessions can be taught in different languages: Catalan/Spanish or English.

Visits:

- Visits to companies, centers and facilities where they work on issues related to Microbiology are scheduled.

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
Submission of test questions	15	0	0	CM23, CM24, CM25, KM34, KM36, SM34
Theory assessment (multiple-choice test)	60	9	0.36	CM24, CM25, KM34, KM35, SM34
Participation in the different activities	Up to 25%	0	0	CM24, KM34, SM34

The evaluation of the subject will be individual.

Continuous evaluation

Compulsory attendance to two of the programmed visits.

SEMINARS:

- Written test: multiple-choice tests corresponding to the content of each one of the different activities carried out (corresponding to 60% of the mark) one exam per semester.
- Each student will have assigned one or more seminars / visits to prepare a maximum of 10 multiple-choice questions that reflect the most relevant concepts of the subject discussed (15% of the mark)
- Mandatory attendance to more than 85% of the seminars.

Attendance in the different activities will have an evaluation of up to 25% of the overall mark. The student who exceeds the established lack of assistance in this guide will suspend the subject.

A student will obtain the rate of "Not Evaluable" if he/she attend to less than 67% of the evaluation activities.

Single assessment

Compulsory attendance to two of the programmed visits.

SEMINARS:

- Written test: multiple-choice tests corresponding to the content of each one of the different activities carried out (corresponding to 60% of the mark) one exam at the end of the course.
- Each student will have assigned one or more seminars / visits to prepare a maximum of 10 multiple-choice questions that reflect the most relevant concepts of the subject discussed (15% of the mark)
- Mandatory attendance to more than 85% of the seminars.

Attendance in the different activities will have an evaluation of up to 25% of the overall mark.

The student who exceeds the established lack of assistance in this guide will suspend the subject.

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

If the course guide stipulates that obtaining a minimum grade in this assessment activity is an essential 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.

Bibliography

The bibliography will be available on the UAB intranet and will be adapted every year to the seminar scheduled.

The teachers will give adequate advice to the students in this regard.

Software

No specific software is needed in this subject.

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
(TE) Theory	74	Catalan	annual	morning-mixed
(VEXT) Visites externes a entitats	741	Catalan	annual	morning-mixed
(VEXT) Visites externes a entitats	742	Catalan	annual	morning-mixed
(VEXT) Visites externes a entitats	743	Catalan	annual	morning-mixed