

# Teaching guide

## IDENTIFICATION DETAILS

Degree:	Medicine		
Field of Knowledge:	Health Science		
Faculty/School:	Health Sciences		
Course:			
Type:	Compulsory	ECTS credits:	8
Year:	2	Code:	2726
Teaching period:	Third-Fourth semester		
Area:	Diagnostic Methods		
Module:	Diagnostic and Therapeutic Procedures		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	240		

## SUBJECT DESCRIPTION

The Microbiology and Parasitology course focuses on the study of the different pathogens that affect humans. An introduction to the general characteristics of microorganisms and parasites is given. Each group of pathogens important in medical microbiology and parasitology are studied in detail, with a focus on their general characteristics, pathogenic action, methods of diagnosis and treatment.

## SKILLS

### Basic Skills

Students must have demonstrated knowledge and understanding in an area of study that is founded on general secondary education. Moreover, the area of study is typically at a level that includes certain aspects implying knowledge at the forefront of its field of study, albeit supported by advanced textbooks

Students must be able to apply their knowledge to their work or vocation in a professional manner and possess skills that can typically be demonstrated by coming up with and sustaining arguments and solving problems within their field of study

Students must have the ability to gather and interpret relevant data (usually within their field of study) in order to make judgments that include reflections on pertinent social, scientific or ethical issues

Students must be able to convey information, ideas, problems and solutions to both an expert and non-expert audience

Students must have developed the learning skills needed to undertake further study with a high degree of independence

## General Skills

To recognise the essential elements of the medical profession, including ethical principles, legal responsibilities and professional practice focussed on the patient. To acquire the values of professionalism:

- a. Altruism: looking for the best in patients.
- b. Responsibility: complying with the implicit agreement with the community.
- c. Excellence as a continuous search for knowledge.
- d. Obligation as a free commitment to serve.
- e. Honour and integrity: complying with personal and professional codes and undertaking not to breach them.
- f. Serving others.

To understand and recognise the causal agents and risk factors that determine health conditions and development of illness.

To establish the diagnosis, prognosis and treatment, applying principles based on the best possible information and clinical safety conditions.

To understand the importance of these principles for the benefit of patients, society and the profession, particularly focussing on professional secrecy.

To acquire basic training for conducting research.

To understand and recognise the structure and normal function of the human body at molecular, cellular, tissue, organ and system level in the various stages of life, in both men and women.

## Specific skills

To learn how to obtain and process a biological sample for study using different diagnostic procedures.

To be able to interpret the results of diagnostic laboratory tests.

To carry out disinfection and sterilisation techniques.

To be familiar with the biochemical, cytogenetic and molecular biology markers applied to clinical diagnostics.

To be familiar with the foundations of microbiology and parasitology. To be aware of the main techniques of microbiological and parasitological diagnosis and to interpret the findings.

## DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
132 hours	108 hours