

Teaching guide

IDENTIFICATION DETAILS

Degree:	Biomedicine		
Field of Knowledge:	Science		
Faculty/School:	Experimental Science		
Course:	GENERAL PATHOLOGY		
Type:	Compulsory	ECTS credits:	12
Year:	3	Code:	2158
Teaching period:	Fifth-Sixth semester		
Area:	General principles of Disease		
Module:	Biomedicine Fundamentals		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	300		

SUBJECT DESCRIPTION

The Biomedical field of knowledge is where basic scientific knowledge and the clinical approach to pathological processes intersect. Far from the purely clinical approach to disease, nowadays society prepares future professionals with teachings on the molecular basis of the disease, and through this knowledge, reduces the amount of decision-making related to treatment, new lines of basic and clinical research and even the development of new treatment tools. This approach is what is known as evidence-based medicine. General Pathology is the subject that studies common aspects of the disease. Starting with the concept of disease, it deals with its causes (Etiology), its mechanisms (Pathogenesis) and the main ways in which the body responds to aggression.

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

Acquire the necessary skills for analysis, criticism and synthesis applied to the issues pertaining to the field of biomedicine.

Know the molecular, cellular and tissue bases of the disease and how they affect the proper functioning of the organs and systems of the human being.

Participate in the activities of health promotion and disease prevention, at the level of the individual, family and community; with an integral and multi-professional vision of the health-disease process.

Develop the ability to work and collaborate in multidisciplinary integrated teams made up of health professionals of different profiles.

Specific skills

Understand and recognise the structure of the human body, its possible anatomic variations and the organisation of these structures in systems that permit a functional correlation (both in the context of health and disease).

Know the possible alterations of the metabolic routes which cause pathology in the human body, and their symptoms.

To know the biochemical and cytogenetic markers and those of molecular biology applied to clinical diagnosis.

Know the general mechanisms of disease and its associated molecular, structural and functional alterations, their syndromic expression and the therapeutic tools to restore health.

Know about changes in cellular and systemic physiology that take place in the diseases most prevalent in our society.

Know the physiopathological processes as well as their manifestations and risk factors determinants of health and disease in the human body throughout the life cycle.

Understand how homeostasis integrates with processes such as inflammation, fibrosis or neoplasia to explain the development of the pathophysiology from the physiological regulatory mechanisms.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
120 hours	180 hours