

Teaching guide

IDENTIFICATION DETAILS

Degree:	Medicine		
Field of Knowledge:	Health Science		
Faculty/School:	Health Sciences		
Course:			
Type:	Basic Training	ECTS credits:	6
Year:	1	Code:	2711
Teaching period:	First semester		
Area:	Biology		
Module:	Morphology, Structure and Function of the Human Body		
Teaching type:	Classroom-based		
Language:	Spanish		
Total number of student study hours:	150		

SUBJECT DESCRIPTION

The Biology course provides the students with basic knowledge of the structural and functional properties of cells. It is particularly designed to familiarise students with the structure and function of each organelle and eukaryotic cell compartment, as well as their interrelation in performing cellular functions.

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 understand and recognise the effects that the growth, development and aging of on the individual have on the social environment.

To understand the foundations underpinning action, indications and efficiency in therapeutic interventions based on the scientific evidence at hand.

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

To know how to apply the principle of social justice to professional practice and understand the ethical implications of health in a global context of transformation.

To engage in professional practice with regard to the independence, beliefs and culture of the patient.

To recognise one's limitations and the need to maintain and update professional skills, with particular emphasis on independent acquisition of new knowledge and techniques and a motivation to achieve quality.

To engage in professional practice with regard to other health professionals, gaining teamwork skills.

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.

To understand and recognise the effects, mechanisms and manifestations of illness on the structure and function of the human body.

Specific skills

To be familiar with cell structure and function: characteristics and properties of biomolecules; general organisation of cellular metabolism; metabolism of the main biomolecules; regulation and metabolic integration. To be familiar with the basic principles of human nutrition. To be familiar with the structures and processes of cell communication, structure and operation of excitable membranes, the cell cycle, cell differentiation and proliferation processes, genetic information transfer and gene expression and regulation mechanisms.

DISTRIBUTION OF WORK TIME

CLASSROOM-BASED ACTIVITY	INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY
64 hours	86 hours