

Teaching guide

IDENTIFICATION DETAILS

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| Degree: | Medicine | | |
| Field of Knowledge: | Health Science | | |
| Faculty/School: | Health Sciences | | |
| Course: | | | |
| Type: | Basic Training | ECTS credits: | 9 |
| Year: | 1 | Code: | 2712 |
| Teaching period: | First-Second semester | | |
| Area: | Biochemistry | | |
| Module: | Morphology, Structure and Function of the Human Body | | |
| Teaching type: | Classroom-based | | |
| Language: | Spanish | | |
| Total number of student study hours: | 225 | | |

SUBJECT DESCRIPTION

The course contents include the study of nature, composition and structure of macromolecules that sustain life (sugars, lipids, amino acids and proteins and nucleic acids) and also the study of the chemical reactions and other physical and chemical processes (metabolic pathways) in which they participate and occur within uni- or multi-cellular organisms. Such reactions provide the basis for life at molecular level and allow all cells to perform vital processes such as nutrition or growth. These metabolic processes or routes will be studied from the perspective of those destined for the generation of energy in its different forms (catabolism) and from the perspective of those destined for the generation of macromolecules (anabolism).

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 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 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 able to interpret a standard analysis.

To be able to handle basic laboratory techniques and materials.

DISTRIBUTION OF WORK TIME

| CLASSROOM-BASED ACTIVITY | INDEPENDENT STUDY/OUT-OF-CLASSROOM ACTIVITY |
|--------------------------|---|
| 96 hours | 129 hours |