



Course Syllabus

Course Code	Course Title	ECTS Credits
BIOL-112	Φυσιολογία του Ανθρώπου/Human Physiology	6
Prerequisites	Department	Semester
None	Life and Health Sciences	Fall/Spring
Type of Course	Field	Language of Instruction
Compulsory	Pharmacy	Greek/English
Level of Course	Lecturer(s)	Year of Study
1 st Cycle	Papazoglou Ioannis / Dr Cleanthous Solon	1
Mode of Delivery	Work Placement	Corequisites
Face-to-face	N/A	N/A

Course Objectives:

This course will study the various human systems with an emphasis on the interdependencies between structure and function at both macroscopic and microscopic organization level. The aims of the course are to emphasize interrelationships of the human body systems, homeostasis and complementarily of structure and function. In particular, this course aims to outline the principles of human/mammalian physiology; general properties of the living cell and internal environment; neural, muscular, cardiovascular, respiratory, gastro-intestinal, renal and endocrine system; metabolism, reproduction and homeostasis.

The main objectives of the course are:

- To understand the terminology associated with anatomy and, in particular, the physiology of different systems
- to offer an in-depth presentation of the function of the major organs and organ systems of the human body.

To give an Introduction of homeostasis principles and understanding of negative and positive feedback systems

Learning Outcomes:

After completion of the course students are expected to be able to:

- use the appropriate terminology to identify and describe the anatomical structures and parts of the skeletal, muscular and nervous system of the human body.
- Distinguish and explain the interactions as well as the function of the muscle tissue and the skeletal system.
- Identify and explain the interdependence and function of the nervous system as well as how senses work.
- Report and link physiological functions with macroscopic and microscopic anatomy as well as maintaining homeostasis.
- Demonstrate basic skills in anatomy, and interpreting graphs from anatomical and physiological data.
- Understand the unique role of each organ and organ system in maintaining health.
- describe the functions of the distinctive cells that comprise each major organ and when appropriate define the role of physiological functional units.
- know the following areas of bodily function: Integration of the organ systems to maintain constancy of the internal environment
- Regulation of homeostasis by neuronal, endocrine, and local chemical messengers
- Role of the Autonomic Nervous System in regulating organ function

Course Content:

- Introduction to the Human Body
- Transfer Through Membranes
- Introduction to the Nervous System
- Central and Peripheral Nervous System
- Muscular system
- The blood
- The Immune System
- Cardiovascular System - The Heart
- Cardiovascular System - Vases
- Respiratory system
- Digestive system
- Metabolism and Absorption of Food
- Urinary system
- Endocrine System
- Reproductive system

Learning Activities and Teaching Methods:

Lectures, workshops, assignments

Assessment Methods:

Final exam, Midterm exam, assignment

Required Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
Ιατρική Φυσιολογία / Medical Physiology	Guyton C. Arthur/ John Hall	Παρισιάνου A.E /Saunders 13 th edition	2017	978-960-583- 175-2 978- 1455770052