The Hebrew University of Jerusalem

Syllabus

HUMAN ANATOMY AND PHYSIOLOGY- PART I - 65130

Last update 07-05-2024

HU Credits: 3

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Nutrition Sciences

Academic year: 0

Semester: 2nd Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: Efrat Monsonego Ornan

Coordinator Email: efrat.mo@mail.huji.ac.il

Coordinator Office Hours:

Teaching Staff:

Prof Efrat Monsonego-Ornan

Course/Module description:

The course will examine the understanding of the anatomy and physiology of the body's systems and the mutual effects between the systems to maintain homeostasis. The subjects will learn:
1) Different types of tissues in the body systems, body sections, histology and the description of the microscopic structures.
2) Different stages in embryonic development, and the body systems.
3) Central and peripheral nervous system, synapses; rest and action potential; glial cells; brain structure; The cerebrospinal fluid. The autonomic nervous system.
4) the movement system, physiology of the striated and smooth muscle; The skeletal system: bones, joints, ligaments and tendons.
5) the heart system, the circulatory system; Blood cells, coagulation mechanism.

Course/Module aims:

Understanding of the systems studied in the course, and basic concepts in anatomy and physiology.

Learning outcomes - On successful completion of this module, students should be able to:

Understanding the basic concepts of anatomy and physiology of the human body, and of systems: nerves, movement, and flow. Students will have the appropriate foundation to continue learning the additional body systems, pathology and clinical nutrition.

Attendance requirements(%):

Teaching arrangement and method of instruction: Lectures

Course/Module Content:

1) Different types of tissues in the body systems, body sections, histology and the description of the microscopic structures.
2) Different stages in embryonic development, and the body systems.
3) Central and peripheral nervous system, synapses; rest and action potential; glial cells; brain structure; The cerebrospinal fluid. The autonomic nervous system.
4) the movement system, physiology of the striated and smooth muscle; The skeletal system: bones, joints, ligaments and tendons.
5) the heart system, the circulatory system; Blood cells, coagulation mechanism.

Required Reading:
The course books that will be added to Moodle

Additional Reading Material:

Grading Scheme:
Written / Oral / Practical Exam 100 %

Additional information: