

The Hebrew University of Jerusalem

Syllabus

Anatomy - 64652

Last update 20-08-2023

HU Credits: 6

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: School of Pharmacy

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Ein Karem

Course/Module Coordinator: Dr. Daniel David

Coordinator Email: daniel.david@mail.huji.ac.il

Coordinator Office Hours: Upon request via Email

Teaching Staff:

Dr. Daniel David

Course/Module description:

Structure and function of the Human body.

Course/Module aims:

Study of the structure and function of the Human body and the relationships among structures.

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

- Describe each of the body systems and the related organs.*
- Correlate structure-function relationship for the body organs.*
- Interactions of body organs.*

Attendance requirements(%):

Lectures as conventional in the university.

Teaching arrangement and method of instruction: Online lectures.

Course/Module Content:

1. Introduction (2 h): Organization of the human body, Levels of structural organization, Body systems, Anatomical positions, Directional terms, Planes and sections.

2. The Skeletal System (4 h): Functions, Types of bones and joints, Histology, Division of the skeletal system.

3. The Muscular System (2 h): Types of muscles, Functions, Principal skeletal muscles, Common disorders.

4. The Respiratory System (6 h): Organs (nose, pharynx, larynx, trachea, bronchi, alveoli, lungs), Respiratory muscles, Pulmonary ventilation, Control of respiration, Common disorders.

5. The Cardiovascular System (4 h): Blood, Heart (location, pericardium, heart wall, chambers, great vessels, valves, blood supply, conduction system, cardiac cycle), Blood vessels (arteries, veins, capillaries, physiology of circulation, major arteries and veins), Common disorders.

6. *The Lymphatic System (2 h): Lymphatic tissues (nodes, tonsils, spleen), Lymph circulation.*

7. *The Digestive System (6 h): Digestive processes, Peritoneum, Organs (oral cavity, pharynx, esophagus, stomach, pancreas, liver, gallbladder, intestines). Common disorders.*

8. *The Urinary System (2 h): Kidneys, Functions, Ureters, Urinary bladder, Urethra, Urine, Common disorders.*

9. *The Reproductive System (4 h): Male (scrotum, testes, ducts, accessory sex glands, semen, penis), Female (ovaries, uterine, uterus, vagina, vulva, perineum, mammary glands), Female reproductive cycle, Common disorders.*

10. *The Nervous System (12 h): Nervous tissue, Central nervous system, spinal nerves and cranial nerves, Autonomic nervous system, Somatic senses and special senses.*

Required Reading:

Principles of Anatomy and Physiology, 15th edition, Gerard J. Tortora and Bryan Derrickson, Wiley 2017

Fundamentals of Anatomy and Physiology for Nursing and Healthcare Students, 2nd Edition. Ian Peate and Muralitharan Nair, Wiley 2017

Additional Reading Material:

Netter's Atlas of Human Anatomy, 6th Edition. Frank H. Netter, M.D

Grading Scheme:

Written / Oral / Practical Exam 80 %

Mid-terms exams 20 %

Additional information: