



Faculty of Health, Science and Technology
Clinical Medicine

Syllabus

Anatomy and physiology

Course Code: MDGAF1

Course Title: Anatomy and physiology
Anatomi och fysiologi

Credits: 15

Degree Level: Undergraduate level

Progressive Specialisation: First cycle, has only upper-secondary level entry requirements (G1N)

Major Field of Study:

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2016-08-25, and is valid from the Spring semester 2017 at Karlstad University.

Prerequisites

General admission requirements and Mathematics 2a/2b/2c (B) and Science 2 (B), or equivalent.

Learning Outcomes

The aim of the course is for students to acquire basic knowledge of anatomy and physiology.

Upon completion of the course, students should be able to:

- describe the structure of the human body on a molecular level, cellular level, organ level, organ system level, and organism level,
- give an account of and apply anatomical terms and concepts,
- give an account of the physiology of the human body on an organ level, organ system level, and organism level, and give an account of the interaction of organs and organ systems and their importance for the function of the organism,
- describe the interaction of anatomical structure and physiological function,
- give an account of homeostasis and homeostatic mechanisms,
- identify ethical issues and possible priorities in connection with the application of anatomy and physiology in clinical practice.

Content

Instruction is in the form of lectures, seminars, and laboratory sessions.

The course addresses the following topics:

The cell, metabolism, tissues, the integumentary system, the skeletal system, joints, the muscular system, the nervous system, the sensory system, the endocrine system, blood, the cardio-vascular systems, the lymphatic system, the immune system, the respiratory system, the digestive system, the urinary system, fluid and electrolyte balance, acid-base balance, the reproductive system, and embryology.

The course also includes laboratory sessions on basic physiological functions and how these can be monitored, as well as ethics in medicine.

Reading List

See separate document.

Examination

Assessment is based on an individual written exam and participation in mandatory seminars.

Laboratory sessions are mandatory and are assessed continuously in the form of seminars. There will also be a mandatory lecture/seminar on ethical considerations.

Grades

One of the grades Pass with Distinction (VG), Pass (G), or Fail (U) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.