

**Course Description**  
**Physiology and Anatomy 1.**  
**Leading Lecturer: Petra Varró**

**Aim of the course**

**Aim of the course:** Inform about the structure and functioning of the human body

**Learning outcome, competences**

knowledge:

- Structure and functions of different organ systems in the human body.

attitude:

- Scientific approach.

skills:

- Perceive logical relationships about the structure, role and functioning of different organs.

**Content of the course**

**Topics of the course**

- Chemical foundations of biology
- Cellular membrane
- Resting and action potentials
- Communication between cells
- Tissues
- Muscle contraction
- Blood
- Circulation
- Respiration

**Learning activities, learning methods:** the course is a lecture. Preparing for the exam includes learning the material both in form of text and drawings. Preparing answers to essay questions requires significant individual work.

**Evaluation of outcomes**

**Learning requirements, mode of evaluation, criteria of evaluation:**

requirements

- Written exam (definitions, test, drawing, essay questions)

mode of evaluation: 5-scale

criteria of evaluation:

- grade is calculated according to the sum of points received for different parts of the exam

**Reading list**

**Compulsory reading list**

- Material of the lectures (available on Department's site)
- Glossary (available on Department's site)

**Recommended reading list**

- Gerard J. Tortora, Bryan H. Derrickson: Principles of Anatomy and Physiology; 13th Edition; Wiley

Mark Nielsen, Shawn D. Miller: R