Complete name of the course: Anatomy + Anatomy (practice)

Name of the Programme: Anatomy + Anatomy (practice)

Abbreviated name of the course: Anatomy + Anatomy (practice)

English name of the course: Anatomy + Anatomy (practice)

Neptun-Code: GYANTANAE1A (+ GYANTANAG1A)

Institute: Department of Anatomy, Histology and Embryology

Name of the tutor/lecturer: Dr. Csáki Ágnes
Contacts
Phone: E-Mail: csaki.agnes@med.semmelweis-univ.hu

Academic degree: associated professor, Ph.D.

Further tutors: Dr. Dóra Dávid László
Dr. Halász Vanda
Dr. Horváth-Minkó Krisztina
Dr. Herberth András Szászné Dr. Kocsis Katalin
Academic degree: assistant professor, Ph.D.
assistant lecturer
assistant professor, Ph.D.
assistant professor, Ph.D.
assistant professor, Ph.D.

Number of lectures / week: 2 lecture/ week
Credit points: 4 (GYANTANAE1A)
0 (GYANTANAG1A)

Course principles:
Principles:
- to teach the terminology of the human anatomy to the future pharmacists
- to discuss those special anatomical and physiological conditions which may influence the therapeutical considerations;
- to discuss those anatomical conditions which are necessary for the understanding of the further medical subjects of the pharmacists' studies;
- to teach the terminology (Latin and English) of human body parts (at a gross and microscopical anatomical level) necessary for the understanding of the medical language during the communication between the pharmacists and the doctors.
Special attention is required concerning the anatomy of the central nervous system and the digestive tract, the absorption of medicines and their mechanism of action.

Brief course summary:
The lectures include all topics of anatomy, histology and embryology. Locomotor system, internal organs, nervous system, general and detailed histology, general embryology and development of organs are the topics of the lectures. During the dissection room practices the tutors discuss and demonstrate some chapters of anatomy of the locomotor system, internal organs and nervous system. During the histology lab practices, after a short introduction, the students can examine the most important sections with an electronic histology system.

Course data

<table>
<thead>
<tr>
<th>Recommended semester of completing the course</th>
<th>Lecture (contact hrs/week)</th>
<th>Practice (contact hrs/week)</th>
<th>Seminar (contact hrs/week)</th>
<th>Individual lecture</th>
<th>Total number of contact hours/semester</th>
<th>Semester</th>
<th>Consultation</th>
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<tbody>
<tr>
<td>2nd</td>
<td>2/week</td>
<td>2/week</td>
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<td>56/semester</td>
<td>Spring semester * -</td>
<td>Winter semester * Both semesters *</td>
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<tr>
<td>Lecture topics/week</td>
<td>1. Introduction, Locomotor System</td>
<td>2. Skull, vertebral column, head, neck muscles</td>
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<tr>
<td>2. week:</td>
<td>3. Basic tissues I</td>
<td>4. Basic tissues II, Skin</td>
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<td>3. week:</td>
<td>5. The Immune System, the Lymphoid Organs</td>
<td>6. Blood, hematopoiesis</td>
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<td>4. week:</td>
<td>7. Heart, the Vascular System</td>
<td>8. The Respiratory System, the Mechanics of Breathing</td>
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<td>5. week:</td>
<td>9. The Digestive System I, abdominal cavity</td>
<td>10. The Digestive System II</td>
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<td>6. week:</td>
<td>11. The Liver, the Pancreas</td>
<td>12. The Kidneys and the Urinary tract</td>
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<td>7. week:</td>
<td>13. The Female Reproductive Organs, cycle</td>
<td>14. The Male Reproductive Organs, Pelvis</td>
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<td>11. week:</td>
<td>22. The Organ of Hearing and Equilibrium.</td>
<td>23. Hypothalamus, the Endocrine Organs I</td>
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<td>12. week:</td>
<td>24. The Endocrine Organs II</td>
<td>25. Germ cells, Fertilization, Development of the fetus, Placenta,</td>
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<td>14. week:</td>
<td>28. Malformations</td>
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## Practice topics/week

1. **week:** Introduction, upper and lower limbs  
2. **week:** basic tissues, skin  
3. **week:** skull, vertebral column, head, neck muscles  
4. **week:** histology of the blood, vessels and the lymphoid organs  
5. **week:** respiratory tract, thoracic cavity  
6. **week:** respiratory tract histology, gastrointestinal tract histology I.  
7. **week:** heart, large vessels,  
8. **week:** gastrointestinal tract histology II. kidney and urinary tract histology  
9. **week:** genital organs histology, spermatogenesis, oogenesis  
10. **week:** urogenital system, pelvis  
11. **week:** nervous system and sensory organs histology  
12. **week:** nervous system: brain, spinal cord, cranial nerves, spinal nerves, main vessels and nerves on limbs, sensory organs  
13. **week:** endocrine organs, placenta  
14. **week:** Course requirements  

### Order of consultations: -  
**Prerequisites:** Biology 1. (GYGENBILE1A)  
**Semester acceptance conditions:** (successful course attendance, mid-term tests, absence, etc.)  
Attendance of a minimum of 75% of lectures and practices is necessary for the end-term signatures.  

### Knowledge testing during the semester:  
**written (electronic) midterm test**  
Requirements of the signature at the end of the semester:  
Successful midterm during the semester - the grade must be at least 2 - is necessary for the end-term signature.  
Attendance of a minimum of 75% of lectures and practices is necessary for the end-term signature.  
No supplement opportunities are provided.  

### Individual activity of the student during the semester (protocol, etc.)-  
**Performance control in the examination period (final, semi-final): semifinal exam**  
**Performance control in the examination period (written, oral, written and oral): written (electronic) semifinal exam**  
**Prescribed external practice:** -  
**List of teaching materials:** (List of textbooks, hand-outs, scripts, etc.)  

**List of course materials:**  
Lecture hall for the lectures. For the practices dissection practical room and histology practical laboratory, with the appropriate devices.  
**Scientific, course related researches, publications/essays:** -  
**The course description was prepared by Dr. Csáki Agnes, Dr. Kocsis Katalin**