[Medicinski fakultet u Rijeci]

Curriculum
2021/2022

[Za kolegij]

Anatomy

Study program:	**Medical Studies in English (R)** [Sveučilišni integrirani prijediplomski i diplomski studij]
Department:	**[Zavod za anatomiju]**
Course coordinator:	**izv. prof. dr. sc. Ćelić Črnac Tanja, dr. med.**
Year of study:	**1**
ECTS:	**22**
Incentive ECTS:	**0 (0.00%)**
Foreign language:	**Possibility of teaching in a foreign language**

Course information:

The course Anatomy is a compulsory course in the first year of the Integrated Undergraduate and Graduate University Study of Medicine in English. It consists of 56 hours of lectures, 40 hours of seminars, and 145 hours of practicals - overall 241 hours (22 ECTS).

Course objective

The basic aim of Anatomy is to provide the acquisition of knowledge about morphological and structural organization of the human body through the study of topographic and systematic anatomy. In detail, the course content encompasses the fundamentals of osteology, sindesmology, myology, as well as the basics of angiology and neurology. Additionally, the course covers the examination of bones, articulations, and muscles of the upper and lower limbs, as well of the head and trunk. Furthermore, detailed knowledge is elucidated regarding the topographical anatomy of various regions, such as the head and neck, including the regio temporalis, regio parotideomasseterica et retromandibular, regio palpebralis, regio faciei anterior (external nose, nasal cavity, and paranasal sinuses), fossa infratemporalis et pterygopalatina, cavum oris et trigonum submandibulare, trigonum caroticum, spatium parapharyngeum, regio colli media, regio colli lateralis, regio pectoralis et fossa axillaris, as well as the topographical anatomy of the upper limb (muscles, vessels, nerves, and lymph vessels), thorax, abdomen, lesser pelvis (including ventral abdominal wall and inguinal region, peritoneum and mesenteries, peritoneal cavity, extraperitoneal spaces, and the lesser pelvis), and the lower limb (muscles, vessels, nerves, and lymph vessels). In addition, the course covers the morphology of sensory organs, the spinal cord, spinal nerves, the brain, cranial nerves, brain vasculature, and meninges. Each student must obtain the skill in recognizing structures on the human cadaver specimen and the ability to use relevant anatomical nomenclature.

Course content:

General anatomy: basic principles of osteology, sindesmology, myology, angiology and neurology. Principles of organ structure. Structure and function of serous membranes. Anatomical nomenclature, main planes and axes in the body orientation.

Special anatomy: systemic and topographic anatomy of the upper and lower limb, cranium, head and neck, thorax, abdomen and pelvis. Morphology of the brain and spinal cord.

Course learning outcomes

I. Cognitive domain – knowledge

After having passed the Anatomy course, students should be able to:

1. define and choose adequate planes and axes for anatomical orientation

2. describe and explain the arrangement and position of organs in the body and their innervation and irrigation

3. describe, explain and connect general principles in the structure of organs with their function

4. describe and explain the systematic and topographical anatomy of the upper and lower extremities

5. define and explain the structure and relationships in the skeleton of the head

6. describe and explain the morphology of the central nervous system

7. define, describe and explain the systematic and topographical anatomy of the head and neck

8. describe and explain systematic and topographical anatomy of the chest, abdominal and pelvic cavity

9. demonstrate and self evaluate structures of human body on anatomical specimens

II. Psychomotor domain – skills

After having passed the Anatomy course, students should acquire the skills to identify and demonstrate anatomical structures on cadavers, as well as the ability to draw conclusions regarding the interrelationships of individual organs and structures within specific topographical regions.

Course design

For practicals and seminars, students are obliged to prepare in advance, because these parts of the course are designed as “flipped classrooms”. Seminars and practicals are designed to give students the opportunity to engage in the skillful articulation of anatomical structures, as well as to discuss the significance of anatomical knowledge within their future vocation as medical practitioners. Throughout the practical sessions, the instructor supervises and assesses the active involvement of students in carrying out the assigned exercises. Seminars demand dynamic discussions on the designated topics. During the course, knowledge is consistently evaluated through five periodic assessments (midterm exams), each

comprising of a practical segment on specimens, as well as an oral component. The schedule and course content are predetermined by the curriculum.

List of assigned reading:

Friedrich Paulsen, Tobias M. Böckers, Jens Waschke: Sobotta Anatomy Textbook, 1st Edition
Atlas of Anatomy (Sobotta or Gilroy)

List of optional reading:

1. Richard L. Drake, A. Wayne Vogl, Adam W.M. Mitchell: Gray's Anatomy, third edition
2. Kieth L. Moore: Clinically Oriented Anatomy, seventh edition, 2013.

Curriculum:

Student obligations:

1. Regular attendance at classes (lectures, seminars, practicals).

2. Preparation for seminars and practicals by studying certain teaching content according to the implementation curriculum.

3. Use of protective equipment and instruments: mandatory use of a protective coat (white), anatomical tweezers and probe, optional use of protective latex gloves, mask, visor, or protective glasses and cap. Please properly dispose of the used work equipment in the designated place. Do not bring food and drink into the anatomy classrooms.

4. Careful handling of anatomical specimens and spaces where all forms of teaching take place.

5. It is forbidden to take photographs, take specimens outside the premises of the Institute of Anatomy, and alienate anatomical specimens and instruments of the Anatomy Department. A disciplinary procedure will sanction any misconduct.

6. Adherence to good academic behavior practices in dealing with fellow students, staff, and the Department of Anatomy teachers.

7. It is compulsory to follow and act by notifications and rules regarding attendance, absence, midterm exams, corrections of midterm exams, final exams, etc., which will be presented at the first lecture.

Exam (exam taking, description of the written/oral/practical part of the exam, point distribution, grading criteria):

Student grading will be conducted according to the current Ordinance on Studies of the University of Rijeka(approved by the Senate) and the Ordinance on Student Grading at the Faculty of Medicine in Rijeka(approved by the Faculty Council).

During the classes of Anatomy, a student can achieve a maximum of 50% (50 points) of their final grade, while the remaining 50% (50 points) of the grade is obtained at the final exam, as follows:

Midterm exam I - MS	6 points
Midterm exam II - MI	6 points
Midterm exam III - CR/CNS	10 points
Midterm exam IV - CC	14 points
Midterm exam V - AT	14 points
Total (classes)	50 points
Final exam	50 points
Total (course)	100 points

A. Midterm exams consist of a practical and an oral part. The practical part is evaluating the knowledge of anatomical specimens, assessing the practical skills of finding and showing anatomical structures, as well as knowledge of the Latin nomenclature of anatomical structures. On a practical part, students must **recognize at least 8 out of 10 structures** to pass. **The bone orientation is an obligatory practical question and can not be failed.** Passing the practical part of the midterm is a prerequisite for joining the oral part of the midterm. Each part must be evaluated positively to pass the midterm exam! If a student does not approach the oral part after completing the practical part, the whole midterm is marked as 'insufficient (1).

Midterm exams are evaluated according to the table:

	PRACTICAL AND ORAL	
	grade	points
UPPER EXTREMITY - MS	excellent (5) very good (4) good (3) sufficient (2) insufficient (1)	6 5 4 3 0
LOWER EXTREMITY - MI	excellent (5) very good (4) good (3) sufficient (2) insufficient (1)	6 5 4 3 0
CRANIUM, CENTRAL NERVOUS SYSTEM – CR/CNS	excellent (5) very good (4) good (3) sufficient (2) insufficient (1)	10 8 7 5 0

HEAD AND NECK - CC	excellent (5) very good (4) good (3) sufficient (2) insufficient (1)	14 12 10 7 0
THORAX, ABDOMEN AND PELVIS - AT	excellent (5) very good (4) good (3) sufficient (2) insufficient (1)	14 12 10 7 0

The Midterm exams will be held on the dates noted below. The exact time and the venues will be announced later.

- **MIDTERM 1 (upper extremity) – 29/10/2024 and 31/10/2024**
- **MIDTERM 2 (lower extremity) – 03/12/2024 and 05/12/2024**
- **MIDTERM 3 (cranium, CNS) – 29/01/2024**
- **MIDTERM 4 (head and neck) – 14/04/2025**
- **MIDTERM 5 (thorax, abdomen, and pelvis) – 03/06/2025 and 05/06/2025**

Corrections of the midterm exams

Students can access the corrections of the midterm exams if they did not pass them during the regular midterm, or are not satisfied with the obtained points. If a student retakes the midterm exam because they are unsatisfied with the obtained grade points, only the grade points received at the retaken midterm exam(s) will be considered valid. Suppose the student passes the practical part of the midterm exam during the regular midterm and fails the oral part. In that case, he can retake the oral part of the midterm separately, without redoing the practical part. Students can correct each midterm exam (I – V) during the retake exam dates only once!

The dates of retake midterm exams are following:

14.02.2025., 27.02.2025., 11.06.2025., 26.06.2025. and 10.07.2025.

On these dates, students can apply for any midterm exam regardless of the topic and apply for more than one retake exam on each date. Students are obligated to apply for the correction/s of the midterm exams. Suppose students apply for the correction/s of the midterm exam and decide that they will not be able to access it. In that case, they must personally cancel it (via email or in-person at the Department's administrator's office) at the latest until one work day before the term of the midterm exam/s until noon. If a student does not personally cancel the application for the correction/s of the midterm exams, and then doesn't approach the midterm correction/s, their final score for that/those midterm exams will be 0 points.

B. Final exam

Only students who have achieved at least 25 points during the course can take the final exam in Anatomy. Students with less than 25 points earned during the course must enroll in the course Anatomy again in the next academic year. If a student obtains 25 grade points during classes, but without passing one or more midterm exams, he must approach the practical parts of those midterm exams during the final exam. Passing all practical parts is one of the prerequisites for taking the final exam. In case the student does not pass the practical during the final exam, the exam is graded as insufficient. The final exam is oral.

The final exam is evaluated according to the scheme:

Grade	Points
Excellent (5)	50
Very good (4)	41
Good (3)	33
Sufficient (2)	25

The final grade consists of the sum of points gained during the course and at the final oral exam. Grading within the ECTS grading system is carried out with an absolute distribution, i.e. based on the final achievement:

A – 90 - 100% EXCELLENT (5)

B – 75 - 89,9% VERY GOOD (4)

C – 60 – 74,9% GOOD (3)

D -- 50 - 59,9% SUFFICIENT (2)

Final exam dates	
1.	20.06.2025.
2.	04.07.2025.
3.	18.07.2025.
4.	05.09.2025.
5.	19.09.2025.

Other notes (related to the course) important for students:

Academic honesty

It is expected that all students and teachers follow the code of academic honesty in accordance with the Code of Ethics for the students of the Faculty of Medicine at the University of Rijeka.

Consultations

Consultations are organized in agreement with the teacher.

Contact information

For all questions and concerns, students are encouraged to contact us by e-mail (mia.medic@medri.uniri.hr; tanja.celic@medri.uniri.hr) or personally.

COURSE HOURS 2021/2022

Anatomy

List of lectures, seminars and practicals:

EXAM DATES (final exam):
