

# Course information: Pathological Physiology 2

Winter semester 2023/2024

In Bratislava, September 6, 2023

## Contact Information

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## Course Information

### Course ID and title:

L-S-ZLa-074 Pathological Physiology 2

### Type of course:

Compulsory course

### Study branch, Study program:

**Dentistry**

### Recommended semester:

5th

### Number of credits:

5

### Prerequisites:

Medical Biochemistry for Dentistry 2

### Form of the course:

Combined

### Number of hours per week:

24 hrs/semester lectures + 26 hrs/semester seminars

### Self-study:

75 hours/semester

## General Information

### Brief Description

In the course Pathological physiology, the students will learn about the etiopathogenesis of diseases and conditions. On a molecular-biological basis, we will elucidate the mechanisms of the origin, development, and cessation of diseases. The students will gain a complex insight into general and special functional disorders of organs and systems in various pathological alterations. The focus on the dental study is considered in all topics.

### Course Format

- The course Pathological physiology will be presented in the form of lectures and seminars.
- In the **lectures**, particular topics with respect to the newest knowledge and research in the area will be presented. The lectures are optional; however, the student's attendance is highly recommended.
- For **seminars**, students should be prepared. They ought to study from recommended literature. As the desirable and effective form of gaining deep knowledge, we recommend continuous study with the possibility of consulting selected questions in seminars. The topics of the seminars in the schedule are essential information for students. Attendance at seminars is **mandatory**.
- In the seminars, the teachers will **actively engage students in the learning process** regarding their intercultural educational context. During seminars, a combination of mini-lectures with active learning, including discussions with the teacher and student-centered techniques such as peer-to-peer activities, case studies, quizzes, etc., will be applied.
- There will be **2 tests** during the semester that will be part of the final evaluation.
- Students are **required** to monitor the **information** provided on the Institute's website, MS Teams, @uniba e-mail boxes, and bulletin boards in front of the Institute of Pathological Physiology.

## Expected learning outcomes

By the end of the course, the students should be able to:

1. integrate the knowledge from all theoretical disciplines in a comprehensive picture of the origin and development of principle pathologic conditions,
2. analyze the relationship between disorders of the particular systems and their clinical manifestations in the context of differential diagnosis,
3. propose potential therapeutic interventions.

## Major learning activities

- warm-up activities, quizzes
- peer-to-peer activities, problem-solving, clinical case studies
- discussion with teacher
- simulation training, practical training

## Lectures

Lectures will be held in person according to the schedule.

## Seminars

Seminars will be held in person according to the schedule. During the meeting, students will also have the opportunity for their questions. Students will be rewarded with extra points for their activity and knowledge on seminars that will be included in the final evaluation.

## Prerequisite

The prerequisite for the study of the subject Pathological Physiology 2 is successfully passed exam in **Medical Biochemistry for Dentistry 2**. Students who do not meet this condition can take the subject Pathological Physiology 2 and write the credit tests under the condition that **until they meet the prerequisite, they cannot obtain credits and apply for the final exam in this subject**.

## Assessment criteria

The final grade will be assigned based on the following:

- **Attendance:** Attendance is essential and follows the Policy on absences.
- **Activity:** During the seminars, students are expected to actively participate in discussions and other activities, which will be rewarded with extra points and included in the final evaluation.
- **2 continuous tests:** Each test will have 25 multiple choice questions. The topic of each test is stated in the Schedule. In case of failure (less than 60%), a student can re-write a test up to 2 times during the 14th compensatory week. Testing will take place through Moodle in the computer room of FMCU.
- If the student does not meet the listed criteria, the study will not be considered and he/she cannot proceed to the final exam.

## Grading scale

A	B	C	D	E	Fx
91 - 100%	81 - 90%	73 - 80%	66 - 72%	60- 65%	less than 60%

## Policy on absences

- The student can have **1 absence** without excuse and without compensation.
- The **2<sup>nd</sup> and 3<sup>rd</sup> absences** must be excused in a written form (medical confirmation or similar), under the condition of being examined from the topic by the teacher facilitating the missed seminar. The compensation will take place via an online MS Teams call or other alternative forms in the 14th week (December 11 - December 15, 2023), but no later than 1 month after the end of the course.
- If the student has **4 absences**, only the Head of the Institute of Pathological physiology can authorize the possibility of compensation during the 14th week of the semester.
- If the student has **5 or more absences**, he/she does not have the right to compensation, he/she will not be granted credits, and he/she is obliged to retake the given course within its full extent (following the [FMCU Dean's Regulation No. 3/2010](#)).
- If the student does not participate in compensatory practices for any reason without an apology, the study will not be considered, and he/she cannot gain the credits in this course.

## Statement academic integrity

Students adhere to the Internal Regulation of Comenius University in Bratislava [No. 23/2016](#), The Code of Conduct of Comenius University in Bratislava. Accordingly, students are not allowed to cheat and plagiarize. Breaches of the Code of Conduct or of general moral principles will be dealt with by the independent CU Ethics Board.

## Classroom etiquette

1. **Attend the lectures.** Although the lectures are not mandatory, it is highly recommended to attend each lecture.
2. **Arrive at the seminar on time.** Substitution of seminars is possible only in exceptional cases and with the teacher's consent.
3. **Be prepared for the seminar.** Students will be rewarded with extra points for their activity and knowledge on seminars that will be included in the final evaluation.
4. **Do not disturb during seminars; turn off your mobile phone** - unless needed for learning activities.
5. **It is prohibited to record** lectures and seminars without the teacher's approval.

## Final exam

Requirements for applying for the Pathological Physiology exam are under the condition of completing **prerequisites**: Dentistry from **Medical Biochemistry for Dentistry 2** (verification through AIS2). If the student does not meet these criteria, they will not be admitted to the exam of Pathological Physiology.

Students, who completed the practical study of Pathological Physiology, apply for the exam via **AIS2**. The exam dates are announced consistently with the study and exam rules.

The exam is **in person**. On exam day, students come to the Institute at **8:00**.

On the oral examination, the student will present their **ISIC** and draw out **three random questions**, one from each exam questions cluster (general pathophysiology, pathophysiology of cardiovascular system, pathophysiology of other systems). The condition for successfully passing the exam is to **answer all three questions**. The student can prepare written replies; the necessary time provided by the examiner is about 20 minutes. The examiner will ask the student to prepare **the question from the cardiovascular system in writing**; it will be kept at the Institute as evidence concerning the exam. Cheating during the exam is the reason for exam interruption and Fx grade.

A student registered for an exam that **fails to appear** will score a grade **Fx**.

Registration for an exam and possible deregistration, permitted by AIS2, is in the student's competency. In AIS, a student can **register** for the exam up to **24 hours** before the exam term and **deregister** until **36 hours** before the exam term.

If the student wants to deregister the date that AIS2 cannot permit, they can request it in written form to the Head of the Institute. The student who fails to appear for the exam and wants to apologize can do so five workdays after the exam with a written letter to the Head of the Institute via the secretary's e-mail (patfyz.sekretariat@fmed.uniba.sk).

Any changes to the form of the final exam will be announced to students in advance.

## Course Materials

### Reading list

- McPhee, S.J. et al.: Pathophysiology of Disease: Introduction to Clinical Medicine (McGraw-Hill/LANGE; 2019, 8th edition).
- Silbernagel, S., Lang, F.: Color Atlas of Pathophysiology. New York: Thieme Verl., 2000, 406 p. ISBN 80-7169-968-3.
- Norris, T.L.: Porth's Pathophysiology: Concepts of Altered Health States. 10th ed. Wolters Kluwer 2019; ISBN 978-1-4963-7755-5.
- Lazenby, R.B.: Handbook of Pathophysiology. 4th ed. Philadelphia et al.: Wolters Kluwer, 2011, 898 p. ISBN 978-1-60547-725-1.
- Banasik, J.L., Copstead, L.C.: Pathophysiology. 6th ed. Elsevier, 2019, 1392 p. ISBN 978-0-323-35481-3. Saunders;
- Hulín, I. et al.: Pathophysiology, Bratislava: SAP, 1997, 696 s. ISBN 80-88908-07-8.