

## Course description

General information about the course		
<b>1. Major of study:</b> medicine	<b>2. Study level:</b> unified MSc	
	<b>3. Form of study:</b> intramural	
<b>4. Year:</b> II	<b>5. Semester:</b> III, IV	
<b>6. Course name:</b> Biochemistry with Elements of Chemistry III + IV		
<b>7. Course status:</b> required		
<p><b>8. Course contents and assigned learning outcomes</b></p> <p>Biochemistry with Elements of Chemistry III &amp; IV is a eleven-credit, 100 hour course designed to lay the foundation for other basic and clinical medical sciences. The goal of this course is to learn the core concepts of biochemistry that apply to human health and disease. The students will be able to analyze and evaluate the most common biochemistry cited in medical literature. Furthermore, these basics will facilitate further learning in biochemistry and the health sciences.</p> <p>This course is designed to communicate the fundamental principles governing the structure, function, and interactions of biological molecules to students encountering biochemistry for the first time. It aims to bring an appreciation of biochemistry to a broad audience that includes undergraduates majoring in premedical programs, as well as medical students and graduate students in the various health sciences for whom biochemistry is an important route to understanding human physiology and pharmacology. To make this subject matter more relevant and interesting to all participants, the course emphasizes the biochemistry of humans.</p> <p><b>Learning outcomes / reference to learning outcomes indicated in the standards</b></p> <p>For knowledge – student knows and understands: B.W1.; B.W2.; B.W3.; B.W10.; B.W11; B.W12.; B.W13.; B.W15.; B.W16.; B.W17.</p> <p>For skills student can do: B.U3; B.U5.; B.U6.; B.U10.;</p> <p>For social competencies student is ready to:</p> <p>1.3.5 Student recognizes and is aware of his/hers self-limitations.</p> <p>1.3.7 Student is ready to master information-gathering skills.</p> <p>1.3.9 Since communication is increasingly understood to be a fundamental clinical skill it is crucial that student is ready to master ability to network and communicate with colleagues, and the medical community with respect and confidences, thus enhance this relationships.</p> <p>1.3.11 Student is ready to take responsibility for his/hers professional decisions.</p>		
<b>9. Number of hours for the course</b>		<b>100</b>
<b>10. Number of ECTS points for the course</b>		<b>11</b>
11. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*
Knowledge B.W1.; B.W2.; B.W3.; B.W10.; B.W11; B.W12.; B.W13.; B.W15.; B.W16.; B.W17.	Written evaluations comprising open questions and MCQs	correct answers ≥ 60%
Skills B.U3.; B.U5.; B.U6.; B.U10.	Written evaluation – open questions and calculations	correct answers ≥ 60%
Competencies	Observation	requirements ≥ 60%

\* The following evaluation system has been assumed:

**Very good (5,0)** – the assumed learning outcomes have been achieved and significantly exceed the required level

**Better than good (4,5)** – the assumed learning outcomes have been achieved and slightly exceed the required level

**Good (4,0)** – the assumed learning outcomes have been achieved at the required level

**Better than satisfactory (3,5)** – the assumed learning outcomes have been achieved at the average required level

**Satisfactory (3,0)** – the assumed learning outcomes have been achieved at the minimum required level

**Unsatisfactory (2,0)** – the assumed learning outcomes have not been achieved