

TIMETABLE
for biological chemistry classes for 2nd year students
of the faculty of international students for the 4th semester of the 2025/2026 acad. year

№	Date	Topic
1	09.02 – 14.02	<i>Proteins and nucleic acids 1.</i> Protein digestion. Amino acid absorption. LW Determination of aspartate transaminase activity in blood plasma by unified Reitman-Frankel method.
2	16.02 – 21.02	<i>Proteins and nucleic acids 2.</i> Tissue metabolism of amino acids. LW Determination of urea concentration in urine by urease phenol/hypochlorite method.
3	23.02 – 28.02	<i>Proteins and nucleic acids 3.</i> Features of selected amino acid metabolism. LW Determination of alanine transaminase activity in blood plasma by optimized enzymatic kinetic method.
4	02.03 – 07.03	<i>Proteins and nucleic acids 4.</i> Metabolism of nucleoproteins. LW Determination of uric acid concentration in urine by enzymatic colorimetric method without deproteinizing.
5	09.03 – 14.03	<i>Proteins and nucleic acids 5.</i> Biosynthesis of protein. Pathology of the protein metabolism. LW Determination of total blood serum protein concentration by refractometry test.
6	16.03 – 21.03	<i>Biochemistry of vitamins.</i> Water-soluble and fat-soluble vitamins. Intervitamin relationship. LW Determination of zinc concentration in urine by colorimetric method without deproteinizing.
7	23.03 – 28.03	<i>Water and mineral salts.</i> Metabolism of calcium and phosphorus. Microelements. LW Determination of magnesium concentration in urine by colorimetric method without deproteinizing.
8	30.03 – 04.04	Final class №4 on partitions: “ <u>Biochemistry of Proteins and Nucleic acids</u> ” and “ <u>Biochemistry of Nutrition</u> ”. Computer testing. Final class No. 4.
9	06.04 – 11.04	<i>Hormones 1.</i> General endocrinology. LW Determination of calcium concentration in urine by colorimetric method.
10	13.04 – 18.04	<i>Hormones 2.</i> Individual endocrinology. Determination of albumin concentration in blood plasma by colorimetric method.
11	20.04 – 25.04	<i>Biochemistry of Blood 1.</i> Fundamentals of acid-base balance regulation. LW Determination of hemoglobin concentration in blood by unified colorimetric method.
12	27.04 – 02.05	<i>Biochemistry of Blood 2.</i> Features of Erythrocytes, Leukocytes, and Platelets metabolism. LW Determination of total and direct bilirubin concentration in blood plasma by unified Jendrassik-Grof method.
13	04.05 – 09.05	<i>Biochemistry of Kidneys.</i> LW Urinalysis with test strips.
14	11.05 – 16.05	<i>Biochemistry of Liver.</i> Xenobiotic metabolism. LW Determination of alkaline phosphatase activity in plasma by an optimized kinetic method.
15	18.05 – 23.05	<i>Biochemistry of Muscular tissue and Myocardium. Biochemistry of nervous system. Biochemistry of connective tissue.</i> LW Determination of creatinine concentration in urine by the pseudo kinetic two-point method, based on the Jaffe reaction, without deproteinizing. <i>Integration of major metabolic pathways.</i>
16	25.05 – 30.05	<i>Nervous system biochemistry</i> - MANAGED INDEPENDENT STUDENT WORK (ABSTRACT)
17	01.06 – 06.06	Final class №5 on partitions: “ <u>Regulation of Metabolism. Biochemistry of Hormones</u> ” and “ <u>Biochemistry of Organs and Tissues</u> ”. Computer testing. Final class No. 5.
18	08.06-13.06	Computer test on partitions: “ Biochemistry of Proteins and Nucleic acids ”, “ Biochemistry of Nutrition ”, “ Metabolism regulation. Biochemistry of Hormones ”, and “ Biochemistry of Organs and Tissues ”.