

TIMETABLE
for biological chemistry classes for 2nd year students
of the faculty of international students for the 4th semester of the 2024/2025 acad. year

№	Date	Topic
1	07.09	<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	14.09	<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	21.09	<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	28.09	<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	05.10	<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	12.10	<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	19.10	<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	26.10	Final class №4 on partitions: “Biochemistry of Proteins and Nucleic acids” and “Biochemistry of Nutrition”.
9	02.11	<i>Hormones 1.</i> General endocrinology. LW Determination of calcium concentration in blood plasma by colorimetric method. Computer testing. Final class No. 4.
10	09.11	<i>Hormones 2.</i> Individual endocrinology. Determination of albumin concentration in blood plasma by colorimetric method.
11	16.11	<i>Biochemistry of Blood 1.</i> Fundamentals of acid-base balance regulation. LW Determination of hemoglobin concentration in blood by unified colorimetric method.
12	23.11	<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	30.11	<i>Biochemistry of Kidneys.</i> LW Urinalysis with test strips.
14	07.12	<i>Biochemistry of Liver.</i> Xenobiotic metabolism. LW Determination of alkaline phosphatase activity in plasma by an optimized kinetic method.
15	14.12	<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. Computer testing. Final class No. 5. Computer test on partitions: “Biochemistry of Proteins and Nucleic acids”, “Biochemistry of Nutrition”, “Metabolism regulation. Biochemistry of Hormones”, and “Biochemistry of Organs and Tissues”.
	Referat	<i>Nervous system biochemistry</i>
16	21.12	Final class №5 on partitions: “Regulation of Metabolism. Biochemistry of Hormones” and “Biochemistry of Organs and Tissues”.
17	28.12	<i>Integration of major metabolic pathways.</i>