

**STUDY FIELD – BIOCHEMISTRY  
THE FIRST CYCLE (FULL-TIME) STUDY PROGRAM „MEDICAL AND VETERINARY BIOCHEMISTRY“**

**2024/2025 M. M. STUDY PLAN**

**1<sup>st</sup> YEAR**

No.	Code of the Subject	Title of the Subject/ Module	Type of Subject	Responsible Department/ Institute	Contact Work Hours	ECTS Credits	Semester/ Semesters	Evaluation Form	Coordinating Lecturer
<b>1</b>	<b>MF/KEK/MVB-PU03</b>	<b>MODULE: International Professional terminology and Lithuanian (foreign) Language</b>	<b>K</b>	<b>Department of Languages and Education</b>	<b>167</b>	<b>9</b>	<b>1, 2</b>	<b>Intermediate credit/ Examination</b>	<b>L.Raščiauskaitė</b>
1.1	MF/KEK/MVB-PU03/02	International Professional Terminology in Latin		Department of Languages and Education	57	3			
1.2	MF/KEK/MVB-PU03/01	Lithuanian (Foreign) Language		Department of Languages and Education	110	6			
<b>2</b>	<b>GMF/BIO/MVB-PU01</b>	<b>General Biology and General Genetics</b>	<b>S</b>	<b>Institute of Biological Systems and Genetics</b>	<b>110</b>	<b>6</b>	<b>1</b>	<b>Examination</b>	<b>K. Morkūnienė</b>
<b>3</b>	<b>FF/ANT/MVB-PU02</b>	<b>General and Inorganic Chemistry</b>	<b>S</b>	<b>Department of analytical and toxicological chemistry</b>	<b>110</b>	<b>6</b>	<b>1</b>	<b>Examination</b>	<b>A. Ževžikovas</b>
<b>4</b>	<b>MF/FMB/MVB-PU02</b>	<b>Basics of Higher Mathematics and the Probability Theory</b>	<b>S</b>	<b>Department of Physics, Mathematics, and Biophysics</b>	<b>110</b>	<b>63</b>	<b>1</b>	<b>Examination</b>	<b>V. Šimatonienė</b>
<b>5</b>	<b>MF/BCM/MVB-PU01</b>	<b>Environmental Chemistry and Sanitation</b>	<b>S</b>	<b>Department of Biochemistry</b>	<b>57</b>	<b>3</b>	<b>1</b>	<b>Examination</b>	<b>V.Andrulevičiūtė</b>
<b>6</b>	<b>FF/ANT/MVB-PU03</b>	<b>Physical and Colloidal Chemistry</b>	<b>S</b>	<b>Department of analytical and toxicological chemistry</b>	<b>110</b>	<b>6</b>	<b>1, 2</b>	<b>Examination</b>	<b>L. Ivanauskas</b>
<b>7</b>	<b>FF/ANT/MVB-PU04</b>	<b>Analytical Chemistry 1</b>	<b>S</b>	<b>Department of analytical and toxicological chemistry</b>	<b>57</b>	<b>3</b>	<b>2</b>	<b>Examination</b>	<b>L. Rimkienė</b>
<b>8</b>	<b>MF/FMB/MVB-PU01</b>	<b>Biological Physics</b>	<b>S</b>	<b>Department of Physics, Mathematics, and Biophysics</b>	<b>110</b>	<b>6</b>	<b>2</b>	<b>Examination</b>	<b>A. Grigaliūnas</b>
<b>9</b>	<b>FF/ANT/MVB-PU07</b>	<b>Organic and Bioorganic Chemistry</b>	<b>S</b>	<b>Department of analytical and toxicological chemistry</b>	<b>110</b>	<b>6</b>	<b>2</b>	<b>Examination</b>	<b>A. Ževžikovienė</b>
<b>10</b>	<b>MF/ANI/MVB-PU02</b>	<b>Anatomy of Human and Laboratory Animals</b>	<b>S</b>	<b>Institute of Anatomy Department of Anatomy and Physiology</b>	<b>110</b>	<b>6</b>	<b>2</b>	<b>Examination</b>	<b>D. H. Pauža</b>
10.1		Human Anatomy		Institute of Anatomy	74				<b>K. Rysevaitė- Kyguolienė</b>

10.2		Anatomy of Laboratory Animals		Department of Anatomy and Physiology	36				I Monkevičienė.
<b>11</b>		<b>Elective subjects</b>	<b>K</b>		<b>57</b>	<b>3</b>	<b>1</b>	<b>Project</b>	
11.1	MF/FMB/MVB-PU03	Information Technologies in Biomedical Studies		Department of Physics, Mathematics, and Biophysics					A.Kriščiukaitis
11.2	VSF/SPK/MVB-PU01	Communication Psychology and Skills		Department of Health Psychology					J. Jonynienė
11.4	MF/KEK/MVB-PU01	Introduction to Studies		Department of Languages and Education					E. Butrime
<b>Total:</b>					<b>1089</b>	<b>60</b>			

**II<sup>nd</sup> YEAR**

No.	Code of the Subject	Title of the Subject/ Module	Type of Subject	Responsible Department/ Institute	Contact Work Hours	ECTS Credits	Semester/ Semesters	Evaluation Form	Coordinating Lecturer
1.	MF/HIS/MVB-PU01	Histology	S	Department of Histology and Embryology	110	6	3	Examination	L. Šlekienė
2.	MF/FMB/MVB-PU04	Biostatistics	S	Department of Physics, Mathematics and Biophysics	110	6	3	Examination	R. Petrolis
3.	FF/ANT/MVB-PU05	Analytical chemistry 2	S	Department of Analytical and Toxicological Chemistry	110	6	3	Examination	L. Rimkienė
4.	MF/BCM/MVB-PU07	Biochemistry 1	S	Department of Biochemistry	220	12	3,4	Examination	R. Baniienė
5.	FF/ANT/MVB-PU06	Methods of instrumental analysis	S	Department of Analytical and Toxicological Chemistry	165	9	3,4	Intermediate credit/ Examination	L. Ivanauskas
6.	VF/MVI/MVB-PU02	Microbiology	S	Institute of Microbiology and Virology	110	6	4	Examination	M. Virgailis
7.	MF/PAK/MVB-PU01	General and molecular pathology	S	Department of Pathological Anatomy	110	6	4	Examination	L. Poškienė, M. Kuprytė, G. Džiaugienė A. Gružienė
7.1				Department of Pathological Anatomy	64				L. Poškienė, M. Kuprytė
7.2				Department of Veterinary Pathobiology	33				G. Džiaugienė
7.3				Institute of Physiology and Pharmacology	13				A.Gružienė
8.	MF/FIK/MVB-PU01	MODULE: Human and laboratory animals physiology	S	Institute of Physiology and Pharmacology Department of Anatomy and Physiology	110	6	4	Intermediate credit/ Examination	L. Malcienė
8.1		Human physiology		Institute of Physiology and Pharmacology	67				J. Žymantienė
8.2		Animal physiology		Department of Anatomy and Physiology	43				J. Žymantienė
9.		Elective subjects	K		57	3	4	Project	
9.1	MF/FMB/MVB-PU05	Basics of organisation of scientific study		Department of Physics, Mathematics and Biophysics					R. Petrolis
9.2	SLK/SLK/MVB-PU01	Basics of preclinical skills		Department of Nursing					J. Demskytė

9.3	VSF/BEK/MVB-PU01	Media and health		Department of Bioethics					<b>G. Urbonas</b>
					Total:	<b>1102</b>	<b>60</b>		

**III<sup>rd</sup> YEAR**

No.	Code of the Subject	Title of the Subject/ Module	Type of Subject	Responsible Department/ Institute	Contact Work Hours	ECTS Credits	Semester/ Semesters	Evaluation Form	Coordinating Lecturer	
1.	MF/HIS/MVB-PU04	Biochemistry 2	S	Department of Biochemistry	111	6	5	Examination	J. Liobikas	
2.	VSF/BEK/MVB-PU02	Bioethics and Animal Science	S	Department of Bioethics	47	3	5	Examination	G. Urbonas	
2.1				Department of Anatomy and Physiology	16	1			J. Žymantienė	
2.2				Department of Bioethics	31	2			G. Urbonas	
3.	VF/AF/MVB-PU01	Cell and Molecular Biology	S	Department of Anatomy and Physiology	164	9	6	Examination	J. Dailidavičienė	
3.1				Department of Anatomy and Physiology	74	4			Intermediate Credit	J. Dailidavičienė
3.2				Institute of Biological Systems and Genetic Research	90	5			Intermediate Credit	P. Vaitkienė
4.	MF/LMK/MVB-PU02	MODULE: Laboratory Hematology and Basics of Immunology	S	Department of Laboratory Medicine/ Department of Immunology and Allergology	152	9	5	Examination	E. Skrodenienė	
4.1.	MF/LMK/MVB-PU02/02	Basics of Laboratory Immunology		Department of Immunology and Allergology	96	3			Intermediate Credit	V. M. Gintauskienė
4.2.	MF/LMK/MVB-PU02/01	Laboratory Hematology and Hemostasis		Department of Laboratory Medicine	56	6			Intermediate Credit	E. Skrodenienė
5.	FF/VACH/MVB-PU01	Pharmaceutical Biochemistry	S	Department of Drug Chemistry	93	6	5	Examination	R. Morkūnienė	
6.	MF/FMB/MVB-PU06	Bioinformatics	S	Institute of Biological Systems and Genetic Research/ Department of Physics, Mathematics and Biophysics	104	6	5	Examination	A. Kriščiukaitis, B. Frerks	
6.1.				Institute of Biological Systems and Genetic Research	41	Intermediate Credit			B. Frerks	
6.2.				Department of Physics, Mathematics and Biophysics	63	Intermediate Credit			A. Kriščiukaitis	
7.	MF/LMK/MVB-PU01	MODULE: Diagnostic Biochemistry	S	Department of Laboratory Medicine	152	9	6	Examination	D.Urbonienė	
7.1	MF/LMK/MVB-PU01/01	Cinical Chemistry		Department of Laboratory Medicine	96	6			Intermediate Credit	D.Urbonienė

7.2	MF/LMK/MVB-PU01/02	Veterinary Clinical Biochemistry		Department of Biochemistry	56	3		Intermediate Credit	R. Budreckienė
<b>8.</b>	<b>GMF/BIO/MVB-PU03</b>	<b>Biotechnology</b>	<b>S</b>	<b>Institute of Biological Systems and Genetic Research</b>	<b>96</b>	<b>6</b>	<b>6</b>	<b>Examination</b>	<b>R. Bižienė</b>
<b>9.</b>		<b>Thesis</b>	<b>S</b>	<b>By choice</b>	<b>90</b>	<b>6</b>	<b>6</b>	<b>Intermediate Credit</b>	<b>R. Baniėnė</b>
<b>Total:</b>					<b>1106</b>	<b>60</b>			

**IV<sup>th</sup> YEAR**

<b>No.</b>	<b>Code of the Subject</b>	<b>Title of the Subject/ Module</b>	<b>Type of Subject</b>	<b>Responsible Department/ Institute</b>	<b>Contact Work Hours</b>	<b>ECTS Credits</b>	<b>Semester/ Semesters</b>	<b>Evaluation Form</b>	<b>Coordinating Lecturer</b>
<b>1.</b>	<b>MF/BCM/MVB-PU02</b>	<b>Professional practice</b>	<b>S</b>	<b>Department of Biochemistry</b>	<b>200</b>	<b>15</b>	<b>7</b>	<b>Project</b>	<b>V. Borutaitė</b>
		Professional practice at diagnostic laboratories		By choice	60				R. Budreckienė
		Professional practice at scientific research laboratories		By choice	130				V. Borutaitė
		Professional practice assessment		Department of Biochemistry	10				
<b>2.</b>		<b>Bachelor's Thesis</b>	<b>S</b>	<b>By choice</b>	<b>200</b>	<b>15</b>	<b>7</b>	<b>Project</b>	<b>R. Budreckienė</b>
<b>Total:</b>					<b>400</b>	<b>30</b>			

Medicinos fakulteto pirmos pakopos studijų programos „Medicininė ir veterinarinės biochemija“ 2024/2025 m. m. studijų planas patvirtintas virtualiame MVB SPK posėdyje 2023 spalio 20 d., protokolo Nr. 2023-7

Medicinos fakulteto pirmos pakopos studijų programos „Medicininė ir veterinarinės biochemija“ 2024/2025 m. m. studijų planas patvirtintas Medicinos fakulteto tarybos posėdyje, 2023 m. spalio mėn. 25 d., protokolo Nr. 114