

STUDY FIELD – BIOCHEMISTRY
FIRST CYCLE STUDIES (FULL-TIME STUDIES) PROGRAMME "MEDICAL AND VETERINARY BIOCHEMISTRY (IN ENGLISH)"

2025/2026 ACADEMIC YEAR STUDY PLAN

1ST STUDY YEAR

NO.	SUBJECT / MODULE CODE	SUBJECT / MODULE TITLE	TYPE OF SUBJECT	COORDINATING DEPARTMENT	CONTACT HOURS	CREDITS	SEMESTER / SEMESTERS	ASSESSMENT FORM
1.		Elective subject	PP/UP	Depending on choice	30,0	3	1	Depending on choice
2.	FF/ANT/MVB-PU13	General and Inorganic Chemistry	SK	Department of Analytical and Toxicological Chemistry	84,0	6	1	Examination
3.	FF/ANT/MVB-PU14	Physical and colloidal chemistry	SK	Department of Analytical and Toxicological Chemistry	84,0	6	1–2	Examination
4.	GMF/BIO/MVB-PU05	General Biology and General Genetics	SK	Institute of Biological Systems and Genetics	83,0	6	1	Examination
5.	MF/BCM/MVB-PU09	Environmental Chemistry and Sanitation	BU	Department of Biochemistry	42,0	3	1	Examination
6.	MF/FMB/MVB-PU09	Basics of Higher Mathematics and the Probability Theory	SK	Department of Physics, Mathematics, and Biophysics	84,0	6	1	Examination
7.	MF/KEK/MVB-PU04	<i>International Professional Terminology and Lithuanian (foreign) Language</i>	SK	<i>Department of Languages and Education</i>	124,0	9	1–2	<i>Examination</i>
7.1	MF/KEK/MVB-PU04/01	<i>Lithuanian (Foreign) Language</i>		<i>Department of Languages and Education</i>	82,0	6	1	
7.2	MF/KEK/MVB-PU04/02	<i>International Professional Terminology</i>		<i>Department of Languages and Education</i>	42,0	3	1/2	
8.	FF/ANT/MVB-PU09	Analytical Chemistry 1	SK	Department of Analytical and Toxicological Chemistry	42,0	3	2	Examination
9.	FF/ANT/MVB-PU11	Organic and Bioorganic Chemistry	SK	Department of Analytical and Toxicological Chemistry	84,0	6	2	Examination

10.	MF/ANI/MVB-PU03	Anatomy of Human and Laboratory Animals	SK	Institute of Anatomy	84,0	6	2	Examination
11.	MF/FMB/MVB-PU08	Biological Physics	SK	Department of Physics, Mathematics, and Biophysics	84,0	6	2	Examination
Total in 1st study year:					825,0	60		

2ND STUDY YEAR

NO.	SUBJECT / MODULE CODE	SUBJECT / MODULE TITLE	TYPE OF SUBJECT	COORDINATING DEPARTMENT	CONTACT HOURS	CREDITS	SEMESTER / SEMESTERS	ASSESSMENT FORM
1.		Elective subject	PP	Depending on choice	30,0	3	3	Depending on choice
2.	FF/ANT/MVB-PU10	Analytical Chemistry 2	SK	Department of Analytical and Toxicological Chemistry	84,0	6	3	Examination
3.	FF/ANT/MVB-PU12	Methods of Instrumental Analysis	SK	Department of Analytical and Toxicological Chemistry	122,0	9	3-4	Examination
4.	MF/BCM/MVB-PU12	Biochemistry	SK	Department of Biochemistry	176,0	12	3-4	Examination
5.	MF/FMB/MVB-PU07	Biostatistics	SK	Department of Physics, Mathematics, and Biophysics	86,0	6	3	Examination
6.	MF/HIS/MVB-PU02	Histology	SK	Department of Histology and Embryology	96,0	6	3	Examination
7.	MF/FIK/MVB-PU02	Human and Laboratory Animals Physiology	SK	Institute of Physiology and Pharmacology	84,0	6	4	Examination
8.	MF/PAK/MVB-PU02	General and Molecular Pathology	BU	Department of Pathological Anatomy	84,0	6	4	Examination
9.	VF/MVI/MVB-PU03	Microbiology	SK	Institute of Microbiology and Virology	89,0	6	4	Examination
Total in 2nd study year:					851,0	60		

3RD STUDY YEAR

NO.	SUBJECT / MODULE CODE	SUBJECT / MODULE TITLE	TYPE OF SUBJECT	COORDINATING DEPARTMENT	CONTACT HOURS	CREDITS	SEMESTER / SEMESTERS	ASSESSMENT FORM
1.	FF/VACH/MVB-PU03	Pharmaceutical Biochemistry	SK	Department of Drug Chemistry	82,0	6	5	Examination
2.	MF/BCM/MVB-PU08	Biochemistry 2	SK	Department of Biochemistry	95,0	6	5	Examination
3.	MF/FMB/MVB-PU11	Bioinformatics	SK	Department of Physics, Mathematics, and Biophysics	84,0	6	5	Examination
4.	MF/LMK/MVB-PU05	Laboratory Hematology and Basics of Immunology	SK	Department of Laboratory Medicine	120,0	9	5	Examination
4.1	MF/LMK/MVB-PU05/01	Laboratory Hematology and Hemostasis		Department of Laboratory Medicine	78,0	6	5	
4.2	MF/LMK/MVB-PU05/02	Basics of Clinical and Laboratory Immunology		Department of Immunology and Allergology	42,0	3	5	
5.	VSF/BEK/MVB-PU03	Bioethics and Animal Science	SK	Department of Social Sciences and Humanities	35,0	3	5	Examination
6.		Bachelors Thesis	BD	Depending on choice	80,0	6	6	Individual work (project)
7.	GMF/BIO/MVB-PU04	Biotechnology	SK	Institute of Biological Systems and Genetics	74,0	6	6	Examination
8.	MF/LMK/MVB-PU04	Diagnostic Biochemistry	SK	Department of Laboratory Medicine	120,0	9	6	Examination
8.1	MF/LMK/MVB-PU04/01	Clinical Chemistry		Department of Laboratory Medicine	75,0	6	6	
8.2	MF/LMK/MVB-PU04/02	Veterinary Clinical Biochemistry		Department of Biochemistry	45,0	3	6	
9.	VF/AF/MVB-PU02	Cell and Molecular Biology	SK	Department of Anatomy and Physiology	126,0	9	6	Examination
9.1	VF/AF/MVB-PU02/01	Cell Biology		Department of Anatomy and Physiology	42,0	3	6	
9.2	VF/AF/MVB-PU02/02	Molecular Biology		Institute of Biological Systems and Genetics	84,0	6	6	
Total in 3rd study year:					816,0	60		

4TH STUDY YEAR

NO.	SUBJECT / MODULE CODE	SUBJECT / MODULE TITLE	TYPE OF SUBJECT	COORDINATING DEPARTMENT	CONTACT HOURS	CREDITS	SEMESTER / SEMESTERS	ASSESSMENT FORM
1.		Bachelors Thesis	BD	Depending on choice	200,0	15	7	Individual work (project)
2.	MF/BCM/MVB-PU11	Professional Practice	SP	Department of Biochemistry	200,0	15	7	Individual work (project)
Total in 4th study year:					400,0	30		
Total in study programme:					2892,0	210		

SK (*Krypties studijų dalykas (modulis) (privalomasis)*) – Study field subject (module) (compulsory)
KA (*Krypties studijų alternatyva (privalomoji alternatyva)*) – Field study alternative (compulsory alternative)
BU (*Kitos krypties studijų dalykas (modulis) (bendrauniversitetinis)*) – Other field subject (module) (general university subject)
BD (*Baigiamasis darbas*) – Final thesis (project) and final examinations
SP (*Krypties studijų praktika*) – Field study practice
PP (*Programos pasirenkamasis*) – Programme elective
UP (*Universitetinis pasirenkamasis*) – University elective