

STUDY FIELD – GENETICS
FIRST CYCLE STUDIES (FULL-TIME STUDIES) PROGRAMME "MEDICAL AND VETERINARY GENETICS (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/MVG-PU09	General and Inorganic Chemistry	SK	Department of Analytical and Toxicological Chemistry	84,0	6	1	Examination
3.	GMF/BIO/MVG-PU37	Cell Biology	SK	Institute of Biological Systems and Genetics	84,0	6	1	Examination
4.	GMF/BIO/MVG-PU39	Essential Biology	SK	Institute of Biological Systems and Genetics	84,0	6	1	Examination
5.	MF/ANI/MVG-PU03	Anatomy of Human and Laboratory Animals	SK	Institute of Anatomy	84,0	6	1	Examination
6.	MF/KEK/MVG-PU12	Development of Professional Social and Communicative Competences	BU	Department of Languages and Education	84,0	6	1–2	Examination
7.	FF/ANT/MVG-PU11	Organic Chemistry	SK	Department of Analytical and Toxicological Chemistry	84,0	6	2	Examination
8.	GMF/BIO/MVG-PU36	General Genetics	SK	Institute of Biological Systems and Genetics	84,0	6	2	Examination
9.	MF/FIK/MVG-PU04	<i>Human and Animal Physiology</i>	SK	<i>Institute of Physiology and Pharmacology</i>	84,0	6	2	<i>Examination</i>
9.1	MF/FIK/MVG-PU04/01	<i>Human physiology</i>		<i>Institute of Physiology and Pharmacology</i>	42,0	3	2	
9.2	MF/FIK/MVG-PU04/02	<i>Animal physiology</i>		<i>Department of Anatomy and Physiology</i>	42,0	3	2	
10.	MF/FMB/MVG-PU15	Biological Physics	SK	Department of Physics, Mathematics, and Biophysics	84,0	6	2	Examination

11.	MF/FMB/MVG-PU16	Basics of Higher Mathematics and Probability Theory	SK	Department of Physics, Mathematics, and Biophysics	42,0	3	2	Examination
Total in 1st study year:					828,0	60		

2ND STUDY YEAR

NO.	SUBJECT / MODULE CODE	SUBJECT / MODULE TITLE	TYPE OF SUBJECT	COORDINATING DEPARTMENT	CONTACT HOURS	CREDITS	SEMESTER / SEMESTERS	ASSESSMENT FORM
1.	FF/ANT/MVG-PU12	Methods of Physico-Chemical Analysis	SK	Department of Analytical and Toxicological Chemistry	42,0	3	3	Examination
2.	MF/BCM/MVG-PU04	General Biochemistry	SK	Department of Biochemistry	84,0	6	3	Examination
3.	MF/FMB/MVG-PU17	Biostatistics	SK	Department of Physics, Mathematics, and Biophysics	84,0	6	3	Examination
4.	MF/HIS/MVG-PU07	Histology and Embryology	SK	Department of Histology and Embryology	126,0	9	3	Examination
5.	MF/LMK/MVG-PU03	Basic of Clinical Laboratory Diagnostics	SK	Department of Laboratory Medicine	84,0	6	3	Examination
6.		Elective subject	PP/UP	Depending on choice	30,0	3	4	Depending on choice
7.	GMF/BIO/MVG-PU34	Molecular Biology	SK	Institute of Biological Systems and Genetics	84,0	6	4	Examination
8.	GMF/BIO/MVG-PU46	Plant Genetics	SK	Institute of Biological Systems and Genetics	42,0	3	4	Examination
9.	IAK/IAK/MVG-PU04	Basics of Immunology	SK	Department of Immunology and Allergology	84,0	6	4	Examination
10.	MF/PAK/MVG-PU03	General and Molecular Pathology	SK	Department of Pathological Anatomy	84,0	6	4	Examination
11.	VF/MVI/MVG-PU05	Basics of Microbiology and Virology	SK	Institute of Microbiology and Virology	84,0	6	4	Examination
Total in 2nd study year:					828,0	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/ANT/MVG-PU10	Analytical Chemistry	SK	Department of Analytical and Toxicological Chemistry	84,0	6	5	Examination
2.	GMF/BIO/MVG-PU41	Epigenetics	SK	Institute of Biological Systems and Genetics	42,0	3	5	Examination
3.	GMF/BIO/MVG-PU43	Population Genetics	SK	Institute of Biological Systems and Genetics	42,0	3	5	Examination
4.	GMF/BIO/MVG-PU45	Veterinary Genetics	SK	Institute of Biological Systems and Genetics	126,0	9	5–6	Examination
5.	GMMK/GMMK/MVG-PU03	Medical Genetics I	SK	Department of Genetics and Molecular Medicine	84,0	6	5	Examination
6.	MF/FMB/MVG-PU18	Bioinformatics	SK	Department of Physics, Mathematics, and Biophysics	84,0	6	5	Examination
7.		Bachelors Thesis	BD	Depending on choice	42,0	3	6	Individual work (project)
8.	GMF/BIO/MVG-PU33	Biotechnology and Gene Engineering	SK	Institute of Biological Systems and Genetics	84,0	6	6	Examination
9.	GMF/BIO/MVG-PU44	Ecological Genetics	SK	Institute of Biological Systems and Genetics	84,0	6	6	Examination
10.	MF/GE/MVG-PU08	Medical Genetics II	SK	Department of Gastroenterology	84,0	6	6	Examination
10.1	MF/GE/MVG-PU08/01	Genetics of oncological diseases		Institute of Oncology	42,0	3	6	
10.2	MF/GE/MVG-PU08/02	Genetics of multifactorial diseases		Department of Gastroenterology	42,0	3	6	
11.	VSF/BEK/MVG-PU03	Bioethics and Animal Science	BU	Department of Social Sciences and Humanities	84,0	6	6	Examination
11.1	VSF/BEK/MVG-PU03/01	Animal Science		Department of Anatomy and Physiology	42,0	3	6	
11.2	VSF/BEK/MVG-PU03/02	Bioethics		Department of Social Sciences and Humanities	42,0	3	6	
Total in 3rd study year:					840,0	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	210,0	15	7	Individual work (project)
2.	GMF/BIO/MVG-PU32	Professional Practical Training	SP	Institute of Biological Systems and Genetics	210,0	15	7	Individual work (project)
2.1	<i>GMF/BIO/MVG-PU32/01</i>	<i>Professional practice</i>		<i>Institute of Biological Systems and Genetics</i>	<i>42,0</i>	<i>3</i>	<i>7</i>	
2.2	<i>GMF/BIO/MVG-PU32/02</i>	<i>Practice in laboratory bases</i>		<i>Institute of Biological Systems and Genetics</i>	<i>168,0</i>	<i>12</i>	<i>7</i>	
Total in 4th study year:					420,0	30		
Total in study programme:					2916,0	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