

**FIELD OF STUDY - GENETICS
THE FIRST CYCLE (FULL-TIME) STUDY PROGRAM “MEDICAL AND VETERINARY GENETICS”**

2024/2025 ACADEMIC YEAR

1st 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/KEK/MVG-PU10	Development of social and communicative competencies of the profession	B	Department of Languages and Education	112	6	1; 2	Interim credit; Examination	S. Morkevičienė; L. Raščiauskaitė
		Improvement of social and general skills			19	1	1		E. Butrimė
		International Professional Terminology in Latin			37	2	1; 2		S. Morkevičienė
		Lithuanian (foreign) Language - I			19	1	1		L. Raščiauskaitė
		Lithuanian (foreign) Language - II			37	2	2		L. Raščiauskaitė
2.	GMF/BIO/MVG-PU16	Essential Biology	S	Institute of Biology Systems and Genetic Research	110	6	1	Examination	J. Loginovič
3.	MF/ANI/MVG-PU02	Anatomy of Human and Laboratory Animals	S	Institute of Anatomy	110	6	1	Examination	D.H. Pauža
		Human Anatomy		Institute of Anatomy	74	4			D.H. Pauža
		Laboratory Animals Anatomy		Department of Anatomy and Physiology	36	2			I. Monkevičienė
4.	FF/ANT/MVG-PU05	General and Inorganic Chemistry	S	Department of Analytical and Toxicological Chemistry	110	6	1	Examination	A. Ževžikovas
5.	GMF/BIO/MVG-PU15	Cell Biology	S	Institute of Biology Systems and Genetic Research	110	6	1	Examination	A. Bielevičius
6.	By choice	Elective Subject	UP	By choice	56	3	1	Project	By choice
7.	MF/FIK/MVG-PU02	MODULE: Human and Animal Physiology	S	Institute of Physiology and Pharmacology	110	6	2	Examination	A. Volkevičiūtė
		Human Physiology		Institute of Physiology and Pharmacology	64	3			A. Volkevičiūtė
		Animal Physiology		Department of Anatomy and Physiology	46	3			J. Žymantienė

8.	FF/ANT/MVG-PU06	Organic Chemistry	S	Department of Analytical and Toxicological Chemistry	110	6	2	Examination	A. Ževžikovas
9.	GMF/BIO/MVG-PU22	General Genetics	S	Institute of Biology Systems and Genetic Research	110	6	2	Examination	K. Morkūnienė
10.	MF/FMB/MVG-PU10	Basics of Higher Mathematics and Probability Theory	S	Department of Physics, Mathematics, and Biophysics	56	3	2	Examination	I. Grabauskytė
11.	MF/FMB/MVG-PU11	Biological Physics	S	Department of Physics, Mathematics and Biophysics	110	6	2	Examination	A. Grigaliūnas
Total (1st year):					1104	60			

IInd 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/LMK/MVG-PU02	Basic of Clinical Laboratory Diagnostics	S	Department of Laboratory Medicine	110	6	3	Examination	D. Urbonienė
2.	FF/ANT/MVG-PU07	Methods of Physico-Chemical Analysis	S	Department of Analytical and Toxicological chemistry	55	3	3	Examination	L. Ivanauskas
3.	MF/BCM/MVG-PU03	General Biochemistry	S	Department of Biochemistry	110	6	3	Examination	R. Bernotienė
4.	MF/FMB/MVG-PU13	Biostatistics	S	Department of Physics, Mathematics and Biophysics	110	6	3	Examination	R. Paukštaitienė
5.	MF/HIS/MVG-PU06	Histology and Embryology	S	Department of Histology and Embryology	165	9	3	Examination	K. Lasienė, L. Šlekienė
6.	GMF/BIO/MVG-PU24	Molecular Biology	S	Institute of Biology Systems and Genetic Research	110	6	4	Examination	A.Vilkevičiūtė
7.	VF/MVI/MVG-PU03	Basics of Microbiology and Virology	S	Institute of Microbiology and Virology	110	6	4	Examination	Ž.Maželienė
8.	MF/PAK/MVG-PU02	General and Molecular Pathology	S	Department of Pathological Anatomy	110	6	4	Examination	L. Poškienė, M. Kuprytė
		General and Molecular Pathology		Department of Pathological Anatomy	64	3,49			L. Poškienė, M. Kuprytė
		General and Molecular Pathology		Department of Veterinary Pathobiology	33	1,72			A. Počkevičius
		General and Molecular Pathology		Institute of Physiology and Pharmacology	13	0,79			D. Akramienė
9.	IAK/IAK/MVG-PU02	Basics of Immunology	S	Department of Immunology and Allergology	110	6	4	Examination	J. Staikūnienė- Kozonis
10.	GMF/BIO/MVG-PU25	Plant Genetics	S	Institute of Biology Systems and Genetic Research	55	3	4	Examination	B. Frercks
11.	By choice	Elective Subject	UP	By choice	55	3	4	Project	By choice
Total (2nd year):					1100	60			

IIIrd YEAR

No.	Code of the Subject	Title of the Subject/Module	Type of Subject	Responsible Department/ Institute	Contact Work Hours	ECTS Credits	Semester/s emesters	Evaluation Form	Coordinating Lecturer
1.	GMF/BIO/MVG-PU30	Veterinary Genetics	S	Institute of Biology Systems and Genetic Research	165	9	5, 6	Intermediate credit, Exam	A. Vilkevičiūtė
					110	6	5		
					55	3	6		
2.	GMMK/GMMK/MVG-PU02	Medical Genetics I	S	Department of Genetics and Molecular Medicine	110	6	5	Exam	M. Šukys
3.	FF/ANT/MVG-PU08	Analytical Chemistry	S	Department of Analytical and Toxicological Chemistry	110	6	5	Exam	L. Rimkienė
4.	MF/FMB/MVG-PU14	Bioinformatics	S	Department of Physics, Mathematics and Biophysics	104	6	5	Exam	A. Kriščiukaitis
		Mathematical Basics of Bioinformatics		Department of Physics, Mathematics and Biophysics	63	3,713			A. Kriščiukaitis
		Genome and Protein Computer Analysis		Institute of Biology Systems and Genetic Research	41	2,288			B. Frercks
5.	GMF/BIO/MVG-PU28	Population Genetics	S	Institute of Biology Systems and Genetic Research	55	3	5	Exam	P. Prakas
6.	GMF/BIO/MVG-PU29	Epigenetics	S	Institute of Biology Systems and Genetic Research	55	3	5	Exam	A. Vilkevičiūtė
7.	GMF/BIO/MVG-PU26	Biotechnology and Gene Engineering	S	Institute of Biology Systems and Genetic Research	110	6	6	Exam	R. Bižienė
8.	MF/GE/MVG-PU05	MODULE: Medical Genetics II	S	Department of Gastroenterology	110	6	6	Exam	J. Skiecevičienė
		Medical Genetics II		Institute of Oncology	55	3			R. Ugenskienė
		Medical Genetics II		Department of Gastroenterology	55	3			J. Skiecevičienė
9.	GMF/BIO/MVG-PU27	Ecological Genetics	S	Institute of Biology Systems and Genetic Research	110	6	6	Exam	P. Prakas
10.	VSF/BEK-MVG-PU02	MODULE: Bioethics and Animal science	S	Department of Bioethics	110	6	6	Exam	E. Peičius
		Bioethics		Department of Bioethics	55	3			E. Peičius
		Animal science		Department of Anatomy and Physiology	55	3			R. Želvytė, J. Žymantienė
11.	By choice	Bachelor's Thesis	S	By choice	55	3	6	Intermediate credit	By choice
Total (3rd year):					1094	60			

IVth YEAR

No.	Code of the Subject	Title of the Subject/ Module	Type of Study	Responsible Department/ Institute	Contact Work Hours	ECTS Credits	Semester/ Semesters	Assessment	Responsible Lecturer
1.	GMF/BIO/MVG-PU08	Professional Practice	S	Institute of Biology Systems and Genetic Research	200	15	7	Project	R. Bižienė
		Professional Practice assessment		Institute of Biology Systems and Genetic Research	20	5			R. Bižienė
		Professional Practice at laboratories		By choice	180	10			By choice
2.	By choice	Bachelor's Thesis	S	By choice	270	15	7	Project	By choice
Total (4th year):					470	30			

The study plan of the MF first cycle full-time study program Medical and Veterinary Genetics for 2024-2025 academic study year was approved by the MF Council in 2023 October 25th, protocol No. 114.