Study programme: **Biotechnology**
Degree: **Bachelor**
Year of study: **1.**

Number	Subject	Semester WS	Semester SS	Credits	Guarantor
	Compulsory subjects				
KBT/bd300	**Introduction to Biotechnology**	2/0	-	3	Kraic
KBT/bd301	**Basics Biology for Biotechnologists**	2/2	-	5	Havrlentová
KBT/bd302	**Laboratory Exercise in Biology**	0/4	-	4	Legerská
KCH/bd303	General Chemistry	2/2	-	5	Titiš
KCH/bd304	Laboratory Exercise in General Chemistry	0/4	-	4	Rajnák
KBT/bd305	Calculations Seminar I	0/2	-	4	Ondrejovič
KBT/bd306	**Fundamentals of Biotechnological Processes and Equipment**	2/0	-	3	Moravčíková
KOJP/bd307	Professional Communication in English I	0/2	-	2	Miština
KBT/bd308	**Advanced Biology for Biotechnologists**	-	2/2	5	Havrlentová
KBT/bd309	**Laboratory Exercise in Advanced Biology**	-	0/4	4	Legerská
KBT/bd310	Information and Communication Technologies	-	0/2	3	Ondrejovič
KCH/bd311	Inorganic Chemistry	-	3/0	3	Titiš
KCH/bd312	Laboratory Exercise in Inorganic Chemistry	-	0/4	4	Rajnák
KBT/bd313	Calculations Seminar II	-	0/2	4	Ondrejovič
KBF/bd314	Introduction to Physics	-	2/2	5	Marček Chorvátová
KOJP/bd315	Professional Communication in English II	-	0/2	2	Miština
	Optional subjects				
KB/bd316	Sports Activities I	0/2	-	2	Ürgeová
KB/bd317	Sports Activities II	-	0/2	2	Ürgeová

The profile subjects of the study programme are marked in bold.
The student may or may not choose from the optional subjects.
Credits earned in both the optional subjects are counted towards progression to the summer semester; credits earned in optional subjects are counted towards progression to the next part of the programme of study.

The student must obtain:
10 credits for the winter semester are required for advancement to the summer semester, 40 credits for advancement to the next year of the study.

Study programme: **Biotechnology**
Degree: **Bachelor**
Year of study: **2.**

Number	Subject	Semester WS	Semester SS	Credits	Guarantor
	Compulsory subjects				
KER/bd318	Environmental Biotechnology	2/1	-	3	Sedláková
KBT/bd319	**Balance Systems in Biotechnology Processes**	0/2	-	3	Moravčíková
KBT/bd320	**Principles of Molecular Biology**	2/0	-	3	Mihálik
KBT/bd321	**Laboratory Exercise in Molecular Biology**	0/5	-	4	Mihálik
KBF/bd322	Biophysical Chemistry	2/3	-	5	Marček Chorvátová
KBT/bd323	Biochemistry	2/0	-	3	Maliar
KBT/bd324	Laboratory Exercise in Biochemistry	0/5	-	5	Ondrejovič Chmelová
KBT/bd325	**Agricultural Biotechnology**	-	2/0	3	Kraic
KIO/bd326	Fundamentals of Microbiology	-	2/1	3	Seman
KBT/bd327	Laboratory Exercise in Microbiology	-	0/5	5	Ondrejovič Chmelová
KCH/bd328	Organic Chemistry	-	2/1	4	Gašparová
KCH/bd329	Laboratory Exercise in Organic Chemistry	-	0/4	4	Tokárová
KBT/bd330	**Microbial Biotechnology**	-	2/0	3	Ondrejovič
KBT/bd331	Semester Project	-	0/3	4	Legerská
	Compulsory optional subjects				
KB/bd332	Genetics	2/1	-	2	Krajčovič
KER/bd333	Environmental Toxicology	2/1	-	2	Horník
KER/bd334	Introduction to Radioecology	2/1	-	2	Horník
KAI/bd335	Mathematics	2/2	-	2	Dirgová Luptáková
KOJP/bd336	Professional Communication in English III	0/2	-	2	Miština
KBT/bd337	Animal Biology	-	2/0	2	Havrlentová
KER/bd338	Renewable Energy	-	2/0	2	Sedláková, Valica
KB/bd339	Plant Physiology	-	2/0	2	Uváčková
KER/bd340	Sustainable Development	-	3/0	2	Matušíková
KAI/bd341	Basics Statistics	-	2/2	2	Dirgová Luptáková
KOJP/bd342	Professional Communication in English IV	-	0/2	2	Miština
	Optional subjects				
KB/bd343	Sports Activities III	0/2	-	2	Ürgeová
KB/bd344	Sports Activities IV	-	0/2	2	Ürgeová

The profile subjects of the study programme are marked in bold.
From the compulsory optional subjects, the student must choose at least two subjects in the winter semester and at least two subjects in the summer semester.
The student may or may not choose from the optional subjects.
Credits earned in both the optional subjects and the compulsory optional subjects are counted towards progression to the summer semester; credits earned in both the optional courses and the compulsory optional subjects are counted towards progression to the next part of the programme of study.

The student must obtain:
10 credits for the winter semester are required for advancement to the summer semester, 40 credits for advancement to the next year of the study.

Study programme: **Biotechnology**
Degree: **Bachelor**
Year of study: **3.**

Number	Subject	Semester WS	Semester SS	Credits	Guarantor
	Compulsory subjects				
KBT/bd345	**Enzymology**	2/0	-	3	Ondrejovič
KBT/Bd346	**Laboratory Exercise in Enzymology**	0/5	-	4	Ondrejovič Chmelová
KCH/Bd347	Separation Methods	2/1	-	3	Purdešová
KBT/Bd348	Laboratory Exercise on Separation Methods	0/5	-	5	Ondrejovič Chmelová
KBT/Bd349	**Methods and Techniques of Gene Manipulation**	2/0	-	3	Mihálik
KB/Bd350	Molecular Biology Databases	1/1	-	3	Janeček
KBT/Bd351	Theory and Methodology of the Bachelor Thesis *Prerequisites: KBT/Bd331*	0/8	-	5	Havrlentová, supervisiors
KBT/Bd352	**Enzyme Biotechnology**	-	2/0	3	Ondrejovič
KBT/Bd353	Computer-aided Molecular Design	-	0/3	3	Maliar
KBT/Bd354	**Regulation and Biosafety of Biotechnology**	-	2/0	3	Moravčíková
KBT/Bd355	**Bachelor Project** *Prerequisites: KBT/Bd351*	-	0/8	4	supervisiors
KBT/Bd356	**Experimental Activity for Bachelor Thesis**	-	0/10	5	supevisiors
	Compulsory optional subjects				
KB/bd357	Evolutionary Biology	2/1	-	2	Krajčovič
KB/Bd358	General Virology	2/1	-	2	Seman, Glasa
KER/Bd359	Waste Management	2/0	-	2	Horník, Valica
KER/Bd360	Environmental Monitoring and Bioindicators	2/0	-	2	Horník, Matušíková
KCH/Bd361	Natural Drugs	2/1	-	2	Gašparová
KCH/Bd362	Organic Chemistry II	2/2	-	2	Gašparová
KBF/Bd363	Biophysical Chemistry II	2/2	-	2	Marček Chorvátová
	Optional subjects				
KB/bd364	Sports Activities V	0/2	-	2	Ürgeová
KB/bd365	Sports Activities VI	-	0/2	2	Ürgeová

The profile subjects of the study programme are marked in bold.
From the compulsory optional subjects, the student must choose at least two subjects in the winter semester.
The student may or may not choose from the optional subjects.

The student must obtain at least 168 credits without subjects of the state exam to complete the study.

The student must obtain at least 10 credits for the winter semester to progress to the summer semester, 168 credits without subjects of the state exam as a condition of admission to the state exam. To successfully complete the bachelor's degree, it is necessary to obtain 180 credits.

Subjects of the state examination:

Compulsory subjects

KBT/bd366	Bachelor Thesis	6 credits
KBT/bd367	Stat Exam in Biotechnology	6 credits