

Bachelor program Biomedical Science
Curriculum-Matrix Version 2.0

1st Semester

No.	Name of lesson	Type	sh	Module	ECTS
AUP1V	Anatomy and Physiology	VO	4	Medical Basics	4
APA1V	General Pathology	VO	1		1
ALE1I	General Introduction to Laboratory	ILV	1	Laboratory Basics	3
HYG1V	Hygiene	VO	1		1
BAP1V	Biomedical analysis process 1	VO	1	Laboratory Instrumentation	1
IAN1I	Instrumental Analytics	ILV	2		4
MIK1U	Microscopy techniques	UE	1	Chemical and Mathematical Basics	1
CHE1V	Chemistry and stoichiometry	VO	5		5
KCH1V	Clinical Chemistry	VO	2	Clinical Chemistry	2
KCA1U	Biomedical analysis process in Clinical Chemistry	UE	3		3
BKR1V	Professional issues and Professional Reasoning	VO	1	Human and Social Sciences	1
KIT1I	Team communication	ILV	1		1,5
RLB1S	Reflexive Learning 1: Portfolio	SE	1		2,5
sum			24		30

2. Semester

No.	Name of lesson	Type	sh	Module	ECTS
BCH2V	Biochemistry and Pathobiochemistry	VO	3,5	Biochemical processes	4
PUT2V	Pharmacology and toxicology	VO	1		1
HIS2V	Cellbiology and Histology	VO	3	Cells and Tissues	3
HIA2I	Biomedical analysis process in Histology	ILV	3,5		4,5
HGL2V	Basics in Hematology	VO	1,5	Hematolgy 1	1,5
HGL2I	Biomedical analysis process in hematology and urinalysis	ILV	3		4,5
GER2I	Hemostaseology and Biomedical analysis process in Hemostaseology	ILV	1,5		1,5
GDE2I	Gender, Diversity and Ethics	ILV	1	Health Professionals Interdisciplinarity	1,5
GFP2V	Health Promotion and Prevention	VO	1		1
LNM2L	Learning with new Media	LP	1		1
PQM2V	Process- and Quality Management	VO	1,5	Practical Training	1,5
BPR2P	Practical Training 1	PR			4,5
RLB2S	Reflexive Learning 2: Tutorial Pracial Training	SE	0,5		0,5
sum			22		30

3. Semester

No.	Name of lesson	Type	sh	Module	ECTS
HÄE3V	Hematological diseases	VO	2	Hematolgy 2	2
HÄF3U	Hematological case studies	UE	3		3
IMM3V	Immunology	VO	2,5	Immunology	2,5
IMM3I	Biomedical analysis process in Immunology	ILV	2,5		2,5
MOB3V	Fundamentals in molecular biology	VO	2	Molecularbiology 1	2
MOB3I	Biomedical analysis process in Molecularbiology	ILV	3		3
SPA3V	Special Pathology	VO	2		2
ZYT3V	Cytology	VO	2	Pathology of cells and tissues	2
ZYT3U	Biomedical analysis process in Cytology	UE	1		1
GWA3S	Fundamentals of Scienific work incl. Scientific English	SE	1		2
GST3V	Fundamentals of medical statistics and documentation	VO	1	Scientific work	1
MST3S	Applied medical statistics and documentation	SE	1		2
RLB3S	Reflexive Learning 3: Applied Biomedical analysis process	SE	1,5	Applied Biomedical analysis process	2,5
FDI3I	Clinical Physiology	ILV	2,5		2,5
sum			27		30

4. Semester

No.	Name of lesson	Type	sh	Module	ECTS
HGE4V	Human Genetics	VO	1	Molecularbiology 2	1,5
GTE4V	Gene Technology	VO	1		1,5
ZKU4U	Cell culturing	UE	2	Microbiolgy	2
MIB4V	Microbiology	VO	3		3
MIB4I	Biomedical analysis process in Microbiology	ILV	3	Immunohematolgy	4,5
IMH4V	Immunohematalogy	VO	2		2
IMH4I	Biomedical analysis process in Immunohematalogy	ILV	2		3
LOR4I	Laboratory Organisation	ILV	1	Preparation for professional life	1,5
QML4S	Quality Management in Laboratory	SE	1		2
KKS4V	Coordination of Clinical Studies	VO	1		1
BUK4U	Job application and career	UE	1		1
RLB4S	Reflexive Learning 4: conflict Management	SE	1	Bachelor Thesis 1	2
FLB4S	Inquiry Based Learning in the Professional Field: Bachelor Thesis 1	SE	1		5
sum			20		30

5. Semester

No.	Name of lesson	Type	sh	Module	ECTS
BPR5P	Practical Training 2	PR	0,5	Practical Training	29
RLB5S	Reflexive Learning 5: Tutorial Prachtal Training	SE			1
sum					30

6. Semester

No.	Name of lesson	Type	sh	Module	ECTS
GWÖ6I	Public Health	ILV	1	Basics of Health Care System	1,5
RGL6V	Legal Basis for Health Professionals	VO			1
ABF6U	Aspects of Biomedical Science	UE			1
WPF6U	Compulsory optional subject	UE			1
BAP6S	Biomedical analysis process 2	SE			3,5
RAD6V	Application of radioactive isotopes in laboratory	VO			1
EBL6U	Evidence-based Laboratory Practice	UE			1
FLB6S	Inquiry Based Learning in the Professional Field: Bachelor Thesis 2	SE	1	Bachelor Thesis 2	10
BPR6P	Practical Training 3	PR	0,5	Practical Training	9
RLB6S	Reflexive Learning 6: Tutorial Prachtal Training	SE			1
sum					30
Total of all semesters			4,5		180

Abbreviations

ECTS	European Credit Transfer System
ILV	integrated lesson (Theory+Exercise)
KO	colloquium
PR	practical training
SE	seminar
sh	semester hours
UE	exercise
VO	lecture