

Curriculum Matrix FH Bachelor's Programme Biomedical Science (Version 3.0)

Semester 1					
course-no.	course title	type	sh	module	ECTS
AUP1V	anatomy and physiology	VO	4	medical basics	5
APA1V	general pathology	VO	1		1,5
HYG1V	hygiene	VO	1		1
BAP1V	biomedical analysis process	VO	1	fundamentals for working in the laboratory	1
ALE1I	introduction to laboratory work	ILV	1		1,5
GAP1I	health professional work and professional action	ILV	1,5		2
IAN1I	instrumental analytics	ILV	2		3
CHE1V	chemistry and stoichiometry	VO	5	chemical and mathematical basics	5
KCH1V	clinical chemistry	VO	2	diagnostic laboratory tests 1	2,5
HGL1V	haematology	VO	1		1,5
HLP1U	urinary. CSF and punctate diagnostics	UE	1		1
BKR1V	professional studies and professional reasoning	VO	1	fundamentals in human and social sciences	1
GPH1S	conversation in professional fields	SE	1		2
SMA1S	self-management in study and work	SE	1		2
sum			23,5		30

Semester 2					
course-no.	course title	type	sh	module	ECTS
BCH2V	biochemistry and pathobiochemistry	VO	3,5	biochemical processes	4
PUT2V	pharmacology and toxicology	VO	1		1
HIS2V	cell Biology and histology	VO	3	cells and tissues	3
HIA2I	biomedical analysis process in histology	ILV	3,5		4,5
KCA2U	biomedical analysis process in clinical chemistry	UE	3	diagnostic laboratory tests 2	3
HGL2U	biomedical analysis process in haematology	UE	3		3
GER2I	haemostaseology and biomedical analysis process in haemostaseology	ILV	1,5		1,5
GBI2I	health professions interprofessional 1	ILV	2	interprofessional collaboration	3
KMA2S	conflict management	SE	1		2
BPR2P	professional internship 1	PR		professional internship 1	4
RPB2S	reflective internship supervision 1	SE	0,5		1
sum			22		30

Semester 3					
course-no.	course title	type	sh	module	ECTS
HÄE3V	haematological diseases	VO	2	haematology	2
HÄF3U	haematology 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 of molecular biology	VO	2	molecular biology 1	2
MOB3I	biomedical analysis process in molecular biology	ILV	3		3
SPA3V	special pathology	VO	2	pathology of cells and tissues	2
ZYT3V	cytology	VO	2		2
ZYT3U	biomedical analysis process in cytology	UE	1		1
GWA3S	scientific work incl. scientific english	SE	1	scientific work	2
GST3V	basics of medical statistics and documentation	VO	1		1
MST3S	applied medical statistics and documentation	SE	1		2
CAS3S	case studies	SE	1,5	case studies	2,5
FDI3I	functional diagnostics	ILV	2,5	functional diagnostics	2,5
Sum line:			27		30

Semester 4					
course-no.	course title	type	sh	module	ECTS
QML4V	quality management in the laboratory	VO	1	applied biomedical analysis process	1
LOR4V	laboratory organisation	VO	1		1
LPR4S	laboratory project - interdisciplinary biomedical science in diagnostics	SE	1,5		3
MIB4V	microbiology	VO	3	microbiology	3
MIB4I	biomedical analysis process in microbiology	ILV	3		4,5
IMH4V	immunohaematology	VO	2	immunohaematology	2
IMH4I	biomedical analysis process in immunohaematology	ILV	2		3
GBI4U	health professions interprofessional 2	UE	2	professionalism and cooperation in health care	2
EBP4S	evidence-based action in the professional practice	SE	1,5		3
HGE4V	human genetics	VO	1	molecular biology 2	1,5
GTE4V	genetic engineering	VO	1		1,5
ZKU4I	biomedical analysis process in cell culture	ILV	2		2,5
IBF4S	interdisciplinary biomedical science in research	SE	1		2
Sum line:			22		30

Semester 5					
course-no.	course title	type	sh	module	ECTS
BPR5P	professional internship 2	PR		professional internship 2	29
RPB5S	reflective internship supervision 2	SE	0,5		1
sum			0,5		30

Semester 6					
course- no.	course title	type	sh	module	ECTS
RGL6V	legal basis for health professions	VO	1	fundamentals of the health system	1
GWÖ6I	basic features of the health care system and health economics	ILV	1		1,5
ABF6U	aspects from the professional field	UE	1	innovations and trends in biomedical sciences	1
WPH6U	elective haematology	UE	1		1
WPI6U	elective Immunology				
WPL6U	elective Laboratory Information Systems				
WPM6U	elective molecular biology				
WPZ6U	elective cytogenetics				
KKS6V	coordination of clinical trials	VO	1		1
GBI6S	health professions interprofessional 3	SE	1		2
BPR6P	professional internship 3	PR		professional internship 3	4
RPB6S	reflective internship supervision 3	SE	0,5		1
FLB6P	research-based learning in the professional field - Bachelor thesis	PR	1	bachelor thesis	15
BSC6S	bachelor's examination	SE	1	bachelor exam	2,5
sum			8,5		30
Total over all semesters			103,5		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