

Bachelor's degree Studies in Chemistry

L – Lecture, S – seminar, Lab – laboratory E – exam, C – credit,

1 Semester				
Courses	Type of classes	E/C	h/sem.	ECTS
Fundamentals of Chemistry	L	E	60	5
	S		45	4
	Lab		90	5
Safety in a chemical laboratory	L	C	15	2
	Lab		15	1
Mathematical methods in chemistry	W	E	15	2
	S		15	1
Foreign language	S		60	4
Total			315	26
2 Semester				
Courses	Type of classes	E/C	h/sem.	ECTS
Analytical chemistry	L	E	30	3
	S		30	4
	Lab		105	9
Fundamentals of Computer Science	L	E	15	5
	Comp. Lab		30	4
Facultative I-1	L		15	3
	Lab		30	2
Foreign language	S		60	4
Total			315	34
3 Semester				
Courses	Type of classes	E/C	h/sem.	ECTS
Inorganic Chemistry	L		30	2
	S		15	2
	Lab		60	5
Organic chemistry	L		45	5
	S		30	2
	L		60	4
Facultative I-2	L		15	3
	Lab.		30	2
Foreign language	S	E	60	4
Total			345	29
4 Semester				
Courses	Type of classes	E/C	h/sem.	ECTS
Inorganic Chemistry	L	E	30	5
	S		15	2
	Lab		75	6
Organic chemistry	L	E	30	4
	S		15	3
	Lab		75	6
Facultative I-3	L		15	3
	Lab		30	2
Physical education		C	30	
Total			315	31

5 Semester				
Courses	Type of classes	E/C	h/sem.	ECTS
Physical Chemistry	L	E	30	3
	S		45	3
	Lab		45	3
Chemical Technology	L	E	30	3
	S		30	3
	Lab		30	3
Fundamentals of quantum chemistry	L	E	30	3
	S		30	3
Facultative I-4	L		15	3
	S		30	2
Physical education			30	
Total			345	29
6 Semester				
Courses	Type of classes	E/C	h/sem.	ECTS
Physical Chemistry	L	E	30	3
	S		45	3
	Lab		45	3
Advanced Analytical Methods	L	E	30	3
	Lab		45	4
Facultative I-5	L		15	2
	Lab		30	3
Bachelor degree exam				10
Total			240	31

Optional courses

L – Lecture, **S** – seminar, **Lab** – laboratory

Facultative I° - 1		2 semester	h/sem.	ECTS
one of two is chosen				
Chemical analysis of environment and materials	L	15	3	
	Lab	30	2	
Selected special techniques in chemical analysis	L	15	3	
	Lab	30	2	
Facultative I° - 2		3 semester		
one of two is chosen				
Structures and Applications of Inorganic Compounds	L	45	5	
Green Chemistry	L	15	3	
	Lab	30	2	
Facultative I° - 3		4 semester		
one of two is chosen				
Elements of Organic Synthesis	S	15	3	
	Lab	30	2	
Elements of Natural Products Chemistry	L	15	3	
	Lab	30	2	
Facultative I° - 4		5 semester		
one of two is chosen				
Molecular driving forces	L	15	3	
	S	30	2	
Symmetry in chemistry	L	15	3	
	S	30	2	
Facultative I° - 5		6 semester		
one of two is chosen				
Molecular Physical Chemistry	L	30	3	
	Lab	15	2	
Electrochemistry	L	30	3	
	Lab	15	2	