

### Chemistry / 1st cycle studies (Bachelor)

No.	Course unit	Semester	Hrs	ECTS credits
1	General chemistry I	winter	105	8
2	Foreign language course	winter	30	2
3	General chemistry II	summer	105	8
4	Analytical chemistry I	summer	75	4
5	Statistical methods	summer	30	2
6	Foreign language course	summer	30	2
7	Analytical chemistry II	winter	105	7
8	Inorganic chemistry	winter	90	6
9	Theoretical chemistry	winter	30	3
10	Basics of crystallography	winter	30	3
11	Physical chemistry I	summer	120	6
12	Organic chemistry I	summer	105	6
13	Instrumental methods in chemical analysis	summer	75	4
14	Chemical metrology	summer	30	2
15	Physical chemistry II	winter	105	7
16	Organic chemistry II	winter	150	9
17	Chemistry of materials	winter	45	3
18	Biochemistry	summer	45	4
19	Nanotechnology	summer	15	1 or 2*
20	Electrochemistry of materials	summer	15	1 or 2*
21	Basics of nanomaterials	winter/summer	15	1 or 2*

\*Examination (E) ECTS=2, credit without examination (Z) ECTS=1

### Chemistry / 2nd cycle studies (Master)

No.	Course unit	Semester	Hrs	ECTS credits
1	Theoretical chemistry	winter	45	3
2	Instrumental analysis	winter	75	6
3	Molecular modelling	winter	15	2
4	Instrumental laboratory	winter	90	6
5	Molecular spectroscopy	winter	60	5
6	Advanced inorganic chemistry	winter	60	5
7	Advanced organic chemistry	winter	135	8
8	Chemical electroanalysis	winter	90	8
9	Theoretical chemistry II	winter	60	5
10	Programming languages	winter	45	3
11	Statistical thermodynamics	summer	15	2
12	Crystallography	summer	30	2
13	Chemistry of polymers	summer	30	3
14	Advanced analytical chemistry	summer	90	5
15	Electrochemistry	summer	105	5
16	Statistical thermodynamics II	summer	60	5
17	Spectacular chemistry	summer	30	2
18	MSc seminar	winter	30	7
19	MSc laboratory	winter	135	12
20	MSc seminar	summer	30	11
21	MSc laboratory	summer	120	14
22	Electrochemistry of nanoparticles	summer	15	1 or 3*
23	Chemistry of fullerenes	summer	15	1 or 3*
24	The use of biosensors in contemporary medical diagnosis	winter	15	1 or 3*
25	Theoretical modeling of chemical processes	winter	15	1 or 3*

\*Examination (E) ECTS=3, credit without examination (Z) ECTS=1