

1.	Field of study	Chemistry
2.	Academic year of entry	2017/2018 (winter term)
3.	Academic year for which the revised course structure applies	2017/2018
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	0531 (Chemistry)

Specialization: Computer Chemistry

A

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3												
			Total	L	O		semester 1			semester 2			semester 3			semester 4			semester 5			semester 6			
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	
1	General Chemistry A	E	135	30	105	13	30	105	13																
2	Intellectual property protection , occupational health and safety	Z	15	15		1	15		1																
3	Introduction to Entrepreneurship	Z	15	15		1	15		1																
4	Mathematics A	E	120	60	60	9	60	60	9																
5	Analytical chemistry A	E	120	15	105	10				15	105	10													
6	General Chemistry B	E	45	15	30	5				15	30	5													
7	Mathematics B	E	90	45	45	7				45	45	7													
8	Physics A	E	75	30	45	6				30	45	6													
9	Applied mathematics with elements of chemometrics	E	45	15	30	3							15	30	3										
10	Chemia analityczna B	E	75	15	60	5							15	60	5										
11	Computer programming laboratory	Z	30		30	3								30	3										
12	Crystallography	E	45	15	30	3							15	30	3										
13	Inorganic chemistry	E	105	30	75	6							30	75	6										
14	Interdisciplinary subject	Z	30	30		3							30		3										
15	Physics B	E	45	30	15	3							30	15	3										
16	Selected topics in general chemistry cz. 1	Z	60		60	4								30	2		30	2							
17	Elective Courses A	E	45	30	15	5										30	15	5							
18	Physical chemistry	E	135	30	105	9										30	105	9							
19	Quantum chemistry	E	45	15	30	4										15	30	4							
20	Specialty Module A	E	60	30	30	8										30	30	8							
21	Chemical materials and chemical management	E	30	15	15	2													15	15	2				
22	Elective Courses B	E	105	15	90	8													15	90	8				
23	Organic chemistry	E	150	45	105	10													45	105	10				
24	Przedmiot interdyscyplinarny z obszaru nauk społecznych-Wybrane problemy społeczne w Polsce	Z	30	30		3													30		3				
25	Specialty Module B	E	30	15	15	3													15	15	3				
26	Biochemistry and biology	E	30	30		2																30			2
27	Biomacromolecules	E	15	15		1																15			1

A

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3											
			Total	L	O		semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
28	BSc undergraduate laboratory	Z	120		120	11																	120	11
29	BSc undergraduate seminar	Z	30		30	4																	30	4
30	Chemical technology	E	75	30	45	4																30	45	4
31	Elective Courses C	E	120	15	105	8																15	105	8
TOTAL A:			2070	675	1395	164	120	165	24	105	225	28	135	270	28	105	210	28	120	225	26	90	300	30

Internships and field work

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3											
			Total	L	O		semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
1	Praktyki	Z	120		120	4															120	4		
TOTAL Internships and field work:			120	0	120	4	0	0	0	0	0	0	0	0	0	0	0	0	0	120	4	0	0	0

Other requirements

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3											
			Total	L	O		semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
1	Wychowanie fizyczne	Z	60		60	0		30		30														
2	English (part 1)	Z	30		30	2		30	2															
3	Information technology	Z	60	30	30	4	30	30	4															
4	English (part 2)	Z	30		30	2				30	2													
5	English (part 3)	Z	30		30	2						30	2											
6	English (part 4)	E	30		30	2							30	2										
TOTAL Other requirements:			240	30	210	12	30	90	6	0	60	2	0	30	2	0	30	2	0	0	0	0	0	0
TOTAL:			2430	705	1725	180	405	30	390	30	435	30	345	30	465	30	390	30						
TOTAL						2430																		

The study ends with the awarding of a Bachelor's Degree in the field of Chemistry: Computer Chemistry.

Legend

Each semester consists of 15 weeks

E/C - examination/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

Plan studiów zatwierdzony przez Radę Wydziału w dniu 20.06.2017 r.

Otrzymują:

1. Dział Kształcenia
2. Wydział Matematyki, Fizyki i Chemii
3. Dziekanat

.....
(pieczęć i podpis Dyrektora Instytutu)

.....
(pieczęć i podpis Dziekana)

1.	Field of study	Chemistry
2.	Academic year of entry	2017/2018 (winter term)
3.	Academic year for which the revised course structure applies	2017/2018
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	0531 (Chemistry)

Specialization: Medicinal Chemistry

A

No.	Module	E/C	form of teaching				Total ECTS	year 1			year 2			year 3									
			Total	L	O	L		O	E	L	O	E	L	O	E	L	O	E					
																			L	O	E	L	O
1	General Chemistry A	E	135	30	105	13	30	105	13														
2	Intellectual property protection , occupational health and safety	Z	15	15		1	15		1														
3	Introduction to Entrepreneurship	Z	15	15		1	15		1														
4	Mathematics A	E	120	60	60	9	60	60	9														
5	Analytical chemistry A	E	120	15	105	10				15	105	10											
6	General Chemistry B	E	45	15	30	5				15	30	5											
7	Mathematics B	E	90	45	45	7				45	45	7											
8	Physics A	E	75	30	45	6				30	45	6											
9	Applied mathematics with elements of chemometrics	E	45	15	30	3							15	30	3								
10	Chemia analityczna B	E	75	15	60	5							15	60	5								
11	Computer programming laboratory	Z	30		30	3								30	3								
12	Crystallography	E	45	15	30	3							15	30	3								
13	Inorganic chemistry	E	105	30	75	6							30	75	6								
14	Interdisciplinary subject	Z	30	30		3							30		3								
15	Physics B	E	45	30	15	3							30	15	3								
16	Selected topics in general chemistry cz. 1	Z	60		60	4								30	2		30	2					
17	Elective Courses A	E	45	30	15	5										30	15	5					
18	Physical chemistry	E	135	30	105	9										30	105	9					
19	Quantum chemistry	E	45	15	30	4										15	30	4					
20	Specialty Module A	E	60	30	30	8										30	30	8					
21	Chemical materials and chemical management	E	30	15	15	2													15	15	2		
22	Elective Courses B	E	105	15	90	8													15	90	8		
23	Organic chemistry	E	150	45	105	10													45	105	10		
24	Przedmiot interdyscyplinarny z obszaru nauk społecznych-Wybrane problemy społeczne w Polsce	Z	30	30		3													30		3		
25	Specialty Module B	E	30	15	15	3													15	15	3		
26	Biochemistry and biology	E	30	30		2																30	2
27	Biomacromolecules	E	15	15		1																15	1

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No.	Module	E/C	form of teaching				year 1			year 2			year 3														
			Total	L	O	Total ECTS	semester 1			semester 2			semester 3			semester 4			semester 5			semester 6					
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
28	BSc undergraduate laboratory	Z	120		120	11																					
29	BSc undergraduate seminar	Z	30		30	4																					
30	Chemical technology	E	75	30	45	4																			30	45	4
31	Elective Courses C	E	120	15	105	8																			15	105	8
TOTAL A:			2070	675	1395	164	120	165	24	105	225	28	135	270	28	105	210	28	120	225	26	90	300	30			

Internships and field work

No.	Module	E/C	form of teaching				year 1			year 2			year 3														
			Total	L	O	Total ECTS	semester 1			semester 2			semester 3			semester 4			semester 5			semester 6					
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
1	Praktyki	Z	120		120	4																					
TOTAL Internships and field work:			120	0	120	4	0	0	0	0	0	0	0	0	0	0	0	0	0	120	4	0	0	0			

Other requirements

No.	Module	E/C	form of teaching				year 1			year 2			year 3														
			Total	L	O	Total ECTS	semester 1			semester 2			semester 3			semester 4			semester 5			semester 6					
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E			
1	Wychowanie fizyczne	Z	60		60	0																					
2	English (part 1)	Z	30		30	2																					
3	Information technology	Z	60	30	30	4	30	30	4																		
4	English (part 2)	Z	30		30	2																					
5	English (part 3)	Z	30		30	2																					
6	English (part 4)	E	30		30	2																					
TOTAL Other requirements:			240	30	210	12	30	90	6	0	60	2	0	30	2	0	30	2	0	0	0	0	0	0	0	0	0
TOTAL:			2430	705	1725	180	405	30	390	30	435	30	345	30	465	30	390	30									
TOTAL						2430																					

The study ends with the awarding of a Bachelor's Degree in the field of Chemistry: Medicinal Chemistry.

Legend

Each semester consists of 15 weeks

E/C - examination/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

Plan studiów zatwierdzony przez Radę Wydziału w dniu 20.06.2017 r.

Otrzymują:

1. Dział Kształcenia
2. Wydział Matematyki, Fizyki i Chemii
3. Dziekanat

.....
(pieczęć i podpis Dyrektora Instytutu)

.....
(pieczęć i podpis Dziekana)

1.	Field of study	Chemistry
2.	Academic year of entry	2017/2018 (winter term)
3.	Academic year for which the revised course structure applies	2017/2018
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	0531 (Chemistry)

Specialization: Environmental Chemistry

A

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3						
			Total	L	O		L	O	E	L	O	E	L	O	E	L	O	E	
																			semester 1
1	General Chemistry A	E	135	30	105	13	30	105	13										
2	Intellectual property protection , occupational health and safety	Z	15	15		1	15		1										
3	Introduction to Entrepreneurship	Z	15	15		1	15		1										
4	Mathematics A	E	120	60	60	9	60	60	9										
5	Analytical chemistry A	E	120	15	105	10				15	105	10							
6	General Chemistry B	E	45	15	30	5				15	30	5							
7	Mathematics B	E	90	45	45	7				45	45	7							
8	Physics A	E	75	30	45	6				30	45	6							
9	Applied mathematics with elements of chemometrics	E	45	15	30	3				15	30	3							
10	Chemia analityczna B	E	75	15	60	5				15	60	5							
11	Computer programming laboratory	Z	30		30	3					30	3							
12	Crystallography	E	45	15	30	3				15	30	3							
13	Inorganic chemistry	E	105	30	75	6				30	75	6							
14	Interdisciplinary subject	Z	30	30		3				30		3							
15	Physics B	E	45	30	15	3				30	15	3							
16	Selected topics in general chemistry cz. 1	Z	60		60	4					30	2		30	2				
17	Elective Courses A	E	45	30	15	5								30	15	5			
18	Physical chemistry	E	135	30	105	9								30	105	9			
19	Quantum chemistry	E	45	15	30	4								15	30	4			
20	Specialty Module A	E	60	30	30	8								30	30	8			
21	Chemical materials and chemical management	E	30	15	15	2											15	15	2
22	Elective Courses B	E	105	15	90	8											15	90	8
23	Organic chemistry	E	150	45	105	10											45	105	10
24	Przedmiot interdyscyplinarny z obszaru nauk społecznych-Wybrane problemy społeczne w Polsce	Z	30	30		3											30		3
25	Specialty Module B	E	30	15	15	3											15	15	3
26	Biochemistry and biology	E	30	30		2													30
27	Biomacromolecules	E	15	15		1													15

A

No.	Module	E/C	form of teaching				year 1			year 2			year 3													
			Total	L	O	Total ECTS	semester 1			semester 2			semester 3			semester 4			semester 5			semester 6				
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O
28	BSc undergraduate laboratory	Z	120		120	11																			120	11
29	BSc undergraduate seminar	Z	30		30	4																			30	4
30	Chemical technology	E	75	30	45	4																		30	45	4
31	Elective Courses C	E	120	15	105	8																		15	105	8
TOTAL A:			2070	675	1395	164	120	165	24	105	225	28	135	270	28	105	210	28	120	225	26	90	300	30		

Internships and field work

No.	Module	E/C	form of teaching				year 1			year 2			year 3												
			Total	L	O	Total ECTS	semester 1			semester 2			semester 3			semester 4			semester 5			semester 6			
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	
1	Praktyki	Z	120		120	4																		120	4
TOTAL Internships and field work:			120	0	120	4	0	0	0	0	0	0	0	0	0	0	0	0	0	120	4	0	0	0	

Other requirements

No.	Module	E/C	form of teaching				year 1			year 2			year 3													
			Total	L	O	Total ECTS	semester 1			semester 2			semester 3			semester 4			semester 5			semester 6				
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E		
1	Wychowanie fizyczne	Z	60		60	0		30		30																
2	English (part 1)	Z	30		30	2		30	2																	
3	Information technology	Z	60	30	30	4	30	30	4																	
4	English (part 2)	Z	30		30	2					30	2														
5	English (part 3)	Z	30		30	2							30	2												
6	English (part 4)	E	30		30	2									30	2										
TOTAL Other requirements:			240	30	210	12	30	90	6	0	60	2	0	30	2	0	30	2	0	0	0	0	0	0		
TOTAL:			2430	705	1725	180	405	30	390	30	435	30	345	30	465	30	390	30								
TOTAL			2430																							

The study ends with the awarding of a Bachelor's Degree in the field of Chemistry: Environmental Chemistry.

Legend

Each semester consists of 15 weeks

E/C - examination/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

Plan studiów zatwierdzony przez Radę Wydziału w dniu 20.06.2017 r.

Otrzymują:

1. Dział Kształcenia
2. Wydział Matematyki, Fizyki i Chemii
3. Dziekanat

.....
(pieczęć i podpis Dyrektora Instytutu)

.....
(pieczęć i podpis Dziekana)

1.	Field of study	Chemistry
2.	Academic year of entry	2017/2018 (winter term)
3.	Academic year for which the revised course structure applies	2017/2018
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	0531 (Chemistry)

Specialization: Applied Chemistry

A

No.	Module	E/C	form of teaching				year 1			year 2			year 3																										
			Total	L	O	Total ECTS	semester 1			semester 2			semester 3			semester 4			semester 5			semester 6																	
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E															
1	General Chemistry A	E	135	30	105	13	30	105	13																														
2	Intellectual property protection , occupational health and safety	Z	15	15		1	15		1																														
3	Introduction to Entrepreneurship	Z	15	15		1	15		1																														
4	Mathematics A	E	120	60	60	9	60	60	9																														
5	Analytical chemistry A	E	120	15	105	10				15	105	10																											
6	General Chemistry B	E	45	15	30	5				15	30	5																											
7	Mathematics B	E	90	45	45	7				45	45	7																											
8	Physics A	E	75	30	45	6				30	45	6																											
9	Applied mathematics with elements of chemometrics	E	45	15	30	3							15	30	3																								
10	Chemia analityczna B	E	75	15	60	5							15	60	5																								
11	Computer programming laboratory	Z	30		30	3								30	3																								
12	Crystallography	E	45	15	30	3							15	30	3																								
13	Inorganic chemistry	E	105	30	75	6							30	75	6																								
14	Interdisciplinary subject	Z	30	30		3							30		3																								
15	Physics B	E	45	30	15	3							30	15	3																								
16	Selected topics in general chemistry cz. 1	Z	60		60	4								30	2		30	2																					
17	Elective Courses A	E	45	30	15	5										30	15	5																					
18	Physical chemistry	E	135	30	105	9										30	105	9																					
19	Quantum chemistry	E	45	15	30	4										15	30	4																					
20	Specialty Module A	E	60	30	30	8										30	30	8																					
21	Chemical materials and chemical management	E	30	15	15	2													15	15	2																		
22	Elective Courses B	E	105	15	90	8												15	90	8																			
23	Organic chemistry	E	150	45	105	10												45	105	10																			
24	Przedmiot interdyscyplinarny z obszaru nauk społecznych-Wybrane problemy społeczne w Polsce	Z	30	30		3												30		3																			
25	Specialty Module B	E	30	15	15	3												15	15	3																			
26	Biochemistry and biology	E	30	30		2																													30		2		
27	Biomacromolecules	E	15	15		1																												15			1		

A

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3											
			Total	L	O		semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
28	BSc undergraduate laboratory	Z	120		120	11																120	11	
29	BSc undergraduate seminar	Z	30		30	4																30	4	
30	Chemical technology	E	75	30	45	4															30	45	4	
31	Elective Courses C	E	120	15	105	8															15	105	8	
TOTAL A:			2070	675	1395	164	120	165	24	105	225	28	135	270	28	105	210	28	120	225	26	90	300	30

Internships and field work

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3											
			Total	L	O		semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
1	Praktyki	Z	120		120	4															120	4		
TOTAL Internships and field work:			120	0	120	4	0	0	0	0	0	0	0	0	0	0	0	0	0	120	4	0	0	0

Other requirements

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3											
			Total	L	O		semester 1			semester 2			semester 3			semester 4			semester 5			semester 6		
							L	O	E	L	O	E	L	O	E	L	O	E	L	O	E	L	O	E
1	Wychowanie fizyczne	Z	60		60	0		30		30														
2	English (part 1)	Z	30		30	2		30	2															
3	Information technology	Z	60	30	30	4	30	30	4															
4	English (part 2)	Z	30		30	2					30	2												
5	English (part 3)	Z	30		30	2						30	2											
6	English (part 4)	E	30		30	2								30	2									
TOTAL Other requirements:			240	30	210	12	30	90	6	0	60	2	0	30	2	0	30	2	0	0	0	0	0	0
TOTAL:			2430	705	1725	180	405	30	390	30	435	30	345	30	465	30	390	30						
TOTAL						2430																		

The study ends with the awarding of a Bachelor's Degree in the field of Chemistry: Applied Chemistry.

Legend

Each semester consists of 15 weeks

E/C - examination/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

Plan studiów zatwierdzony przez Radę Wydziału w dniu 20.06.2017 r.

Otrzymują:

1. Dział Kształcenia
2. Wydział Matematyki, Fizyki i Chemii
3. Dziekanat

.....
(pieczęć i podpis Dyrektora Instytutu)

.....
(pieczęć i podpis Dziekana)