

STUDY PROGRAMME CURRICULUM BIOCHEMISTRY

2023/2024

Name of study programme	Biochemistry
Programme characteristics	
Type	academic
Cycle	bachelor
University of Ljubljana members	• Faculty of Chemistry and Chemical Technology, Večna pot 113, 1000 Ljubljana, Slovenija

Year 1

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0072062	Mathematics	Jaka Smrekar, Petar Pavešič	45		30			75	150	5	1st semester	no
2.	0072060	Physics	Igor Muševič, Janez Bonča, Svjetlana Fajfer	45		30			75	150	5	1st semester	no
3.	0072066	General chemistry	Anton Meden, Iztok Turel	45	30				75	150	5	1st semester	no
4.	0072061	Practical course in chemistry	Romana Cerc Korošec		30	45			75	150	5	1st semester	no
5.	0072065	General biology	Nada Žnidaršič	40	15	20			75	150	5	1st semester	no
6.	0086930	Splošni izbirni predmet		75					75	150	5	1st semester	yes
7.	0100776	Mathematics	Jaka Smrekar, Petar Pavešič	45		30			75	150	5	2nd semester	no
8.	0100777	Physics	Igor Muševič, Janez Bonča, Svjetlana Fajfer	45		30			75	150	5	2nd semester	no

9.	0072058	Inorganic Chemistry	Anton Meden	45	30				75	150	5	2nd semester	no
10.	0072063	Organic chemistry I	Janez Košmrlj	60	15				75	150	5	2nd semester	no
11.	0072067	Fundamentals of biochemistry	Miha Pavšič	45	30				75	150	5	2nd semester	no
12.	0072059	Practical course in biochemistry	Miha Pavšič		15	60			75	150	5	2nd semester	no
Total				490	165	245	0	0	900	1800	60		

Year 2

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0072075	Organic chemistry II	Janez Košmrlj	30	15	30			75	150	5	1st semester	no
2.	0072071	Physical Chemistry	Ksenija Kogej	60	15				75	150	5	1st semester	no
3.	0072070	Cell biology	Peter Veranič	45		30			75	150	5	1st semester	no
4.	0072068	Biochemistry	Gregor Gunčar	45	30				75	150	5	1st semester	no
5.	0072072	Instrumental analytical methods	Mitja Kolar	45		30			75	150	5	1st semester	no
6.	0071971	Introduction to programming	Miha Moškon	45		30			75	150	5	1st semester	no
7.	0100778	Physical Chemistry	Ksenija Kogej	20	10	45			75	150	5	2nd semester	no
8.	0072074	Molecular biology	Marko Dolinar	45	20	10			75	150	5	2nd semester	no
9.	0072078	Structure of Proteins	Miha Pavšič	30	30	15			75	150	5	2nd semester	no
10.	0119027	Introduction to biomolecular structure	Barbara Hribar Lee	45	30				75	150	5	2nd semester	no

11.	0072069	Biochemical informatics	Miha Pavšič	30	10	35			75	150	5	2nd semester	no
12.	0072087	Microbiology	Nina Gunde Cimerman	45		30			75	150	5	2nd semester	no
Total				485	160	255	0	0	900	1800	60		

Year 3

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study	Individual student work	Total hours	ECTS	Semesters	Elective
1.	0072093	Spectroscopic Methods in Biochemistry	Janez Košmrlj	30	10	35			75	150	5	1st semester	no
2.	0072088	Molecular Cloning	Marko Dolinar	30	5	40			75	150	5	1st semester	no
3.	0072084	Enzymatics	Marko Novinec	30	15	30			75	150	5	1st semester	no
4.	0072082	Cellular and molecular immunology	Gregor Gunčar	30	15	30			75	150	5	1st semester	no
5.	0072090	Fundamentals of Genetics	Jernej Ogorevc	30		45			75	150	5	1st semester	no
6.	0088090	Strokovni izbirni predmet		75					75	150	5	1st semester	yes
7.	0086929	Strokovni izbirni predmet		75					75	150	5	2nd semester	yes
8.	0086932	Splošni izbirni predmet		75					75	150	5	2nd semester	yes
9.	0072083	Diploma work						225	225	450	15	2nd semester	no
10.	0072081	Fundamentals of physiology	Robert Zorec	30	15	30			75	150	5	2nd semester	no
Total				405	60	210	0	225	900	1800	60		

Year 2, Year 3, Discipline related electives

				Contact hours									
	University Course Code	Course title	Lecturers	Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study	Individual student work	Total hours	ECTS	Semesters	Elective

1.	0088094									0	5		yes
		Total		0	0	0	0	0	0	0	5		

Year 3, Programme related electives

	University Course Code	Course title	Lecturers	Contact hours					Individual student work	Total hours	ECTS	Semesters	Elective
				Lectures	Seminar	Tutorials	Clinical tutorials	Other forms of study					
1.	0088097	FUNDAMENTALS OF BIOCHEMICAL ENGINEERING	Polona Žnidaršič Plazl	30	15	30			75	150	5		yes
2.	0088096	Fundamentals of Pharmacology	Katarina Černe	30	15	30			75	150	5		yes
3.	0088101	Plant Biochemistry	Kristina Gruden	30	15	30			75	150	5		yes
4.	0088099	Virology	Tatjana Avšič Županc	30	15	30			75	150	5		yes
5.	0088103	Functional Genomics	Uroš Petrovič	30	15	30			75	150	5		yes
6.	0072119	Industrial practice	Urška Šebenik					150		150	5		yes
7.	0640060	Biomacromolecules in industry and medicine	Miha Pavšič	30	15	30			75	150	5		yes
8.	0640061	Molecular evolution and development	Vera Župunski	30	15	30			75	150	5		yes
Total				210	105	210	0	150	525	1200	40		