

L - lecture, c – practices, seminars, laboratories

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
III	18.	Metabolism of Proteins, Carbohydrates, Nucleotides and Lipids	4	E	40	40	–	–	–	–	–	–	–	40	–	–	–	–	–	–	–
	19.	Metabolism of Proteins and Carbohydrates	4	z	60	–	–	–	60	–	–	–	–	–	60	–	–	–	–	–	–
	20.	Metabolism of Lipids	2	z	30	–	–	–	30	–	–	–	–	–	30	–	–	–	–	–	–
	21.	Metabolism of Nucleic Acids	3	E	20	20	–	–	–	–	–	–	–	20	–	–	–	–	–	–	–
	22.	Biophysical Chemistry	6 (4/2)	E/z	60	30	–	–	30	–	–	–	–	30	30	–	–	–	–	–	–
	23.	Genetics	5 (3/2)	E/z	60	30	–	–	30	–	–	–	–	30	30	–	–	–	–	–	–
	24.	Elective lecture 1.	2	z	15	15	–	–	–	–	–	–	–	15	–	–	–	–	–	–	–
	25.	Polish / Foreign language (A2)	-*	z*	60	–	60	–	–	–	–	–	–	–	60	–	–	–	–	–	–
	26.	Sport activities**	-	z	30	–	–	–	30	–	–	–	–	–	30	–	–	–	–	–	–

26 ECTS / 375 h; 4 exams

IV	27.	Microbiology	5 (3/2)	E/z	60	30	–	–	30	–	–	–	–	–	–	30	30	–	–	–	–
	28.	Animal Physiology	3	E	30	30	–	–	–	–	–	–	–	–	–	30	–	–	–	–	–
	29.	Plant Physiology	3	E	30	30	–	–	–	–	–	–	–	–	–	30	–	–	–	–	–
	30.	Techniques in Molecular Biology	4 (2/2)	z	65	20	–	–	45	–	–	–	–	–	–	20	45	–	–	–	–
	31.	Biophysics	5 (3/2)	E/z	60	30	–	–	30	–	–	–	–	–	–	30	30	–	–	–	–
	32.	Cell Culture Techniques (elective)#	4 (2/2)	z	45	15	–	–	30	–	–	–	–	–	–	15	30	–	–	–	–
	33.	Bionformatics	4 (2/2)	z	45	15	30	–	–	–	–	–	–	–	–	15	30	–	–	–	–
	34.	Seminar 1. (elective)	2	z	15	–	–	15	–	–	–	–	–	–	–	–	15	–	–	–	–
	35.	Elective lecture 2.	2	z	15	15	–	–	–	–	–	–	–	–	–	15	–	–	–	–	–

32 ECTS / 365 h; 4 exams

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
V	36.	Molecular Organization of the Cell	7 (4/3)	E/z	80	30	–	–	50	–	–	–	–	–	–	–	–	30	50	–	–
	37.	Biotechnology (elective)##	7 (4/3)	E/z	75	30	–	–	45	–	–	–	–	–	–	–	–	30	45	–	–
	38.	Preparative Biochemistry	4 (2/2)	E/z	45	15	–	–	30	–	–	–	–	–	–	–	–	15	30	–	–
	39.	Elective lecture 3.	2	z	15	15	–	–	–	–	–	–	–	–	–	–	–	15	–	–	–
	40.	Elective lecture 4.	2	z	15	15	–	–	–	–	–	–	–	–	–	–	–	15	–	–	–
	41.	Bioethics	1	z	15	15	–	–	–	–	–	–	–	–	–	–	–	15	–	–	–
	42.	Seminar 2. (elective)	4	z	30	–	–	30	–	–	–	–	–	–	–	–	–	–	30	–	–
27 ECTS / 275 h; 3 exams																					
VI	43.	Bioprocess Engineering	3 (2/1)	E/z	45	30	–	–	15	–	–	–	–	–	–	–	–	–	–	30	15
	44.	Enzymology	5 (3/2)	E/z	75	30	–	–	45	–	–	–	–	–	–	–	–	–	–	30	45
	45.	Economics	4 (2/2)	z	45	30	15	–	–	–	–	–	–	–	–	–	–	–	–	30	15
	46.	Immunology	5 (3/2)	E/z	60	30	–	–	30	–	–	–	–	–	–	–	–	–	–	30	30
	47.	Intellectual property law	1	z	15	15	–	–	–	–	–	–	–	–	–	–	–	–	–	15	–
	48.	BSc seminar (elective)###	12	z	5	–	–	5	–	–	–	–	–	–	–	–	–	–	–	–	5
30 ECTS / 245 h; 3 exams																					
	49.	Polish (A2) / Foreign language	12	z	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
185 ECTS; 2034 h																					

	Elective classes
	Classes in the areas of humanities and social sciences
	Foreign language classes
	Sport classes

* Polish language course is obligatory for foreigners. Upon successful completion and the exam confirming language proficiency at **A2 level**, 12 ECTS points are awarded. Foreign students may take the exam certifying Polish language proficiency at the **level of at least B1** at an earlier term than provided in their study schedule.

In the case of earlier completion of Polish language course, a foreign student may attend a foreign language course (other than English), starting from **at least B1 level**.

Polish citizens attend a foreign language - other than English - course (180 h, at least A2 level).

Students receive only „pass” or „fail” grade at language courses.

** Sport activities – compulsory for everybody. In case of exemption from Sport activities because of some medical or health condition, non-sporting activities are available.

Animal Cell Culture Techniques & Plant Cell Culture Techniques

Medical Biotechnology & Industrial Biotechnology

Plant Biotechnology, Bioinformatics, Medical Biotechnology, Molecular Microbiology, Protein Biotechnology