

## MSc Medical Biotechnology

### Detailed list of courses for full-time students

#### Semester I (winter 2019/2020)

course / module	lecturer/coordinator*	ECTS	hours	exam
Protein Structure and Function (Lect.)	Dr hab. Prof. Małgorzata Zakrzewska	2	15	✓
Protein Biotechnology (Lab.)	Dr hab. Prof. Małgorzata Zakrzewska	2	30	
Molecular Biology Tech. – advanced course (Lab.)	Dr hab. Anna Kulma, prof. UW	2	30	
PCR Method – Technique and Application (Lect. & Lab.)	Prof. dr hab. Mariusz Olczak	2	15	✓
	Prof. dr hab. Teresa Olczak	2	30	
Cell Culture Tech. - advanced course (Lab.)	Dr Aleksandra Marchwicka	2	30	
Molecular Organization of Bacterial Cell (Lect. & Lab.)	Prof. dr hab. Dagmara Jakimowicz	2	15	✓
	Dr Marcin Szafran	2	30	
Computer Programs Used in Research Work (Comp. Lab.)	Dr Sławomir Jabłoński	2	20	
Seminar 1.	Dr Marcin Wolański	2	15	
Self-Presentation Methods (Sem.)	Mgr Patrycjusz Śliwiński	2	15	
Elective lecture 1.:		2	15	
Microbiology and Health	Dr hab. Dorota Dziadkowiec			
Genetic Regulation of Development	Dr hab. Prof. Ryszard Rzepecki			
Food Toxicology	Dr Justyna Ciuraszkiewicz			
Polish language (for foreigners, A1 level)			30	
Initial training in the field of health and safety and fire protection (e-learning)			4	
	In total:	<b>24</b>	<b>289</b>	<b>3 exams</b>

### Semester II (summer 2019/2020)

course / module	lecturer/coordinator*	ECTS	hours	exam
Experimental Tech. in Structural Biology (Lect. & Lab.)	Dr hab. Daniel Krowarsch	2	15	✓
		3	40	
Systems Biology (Lect. & Lab.)	Dr Małgorzata Heidorn-Czarna	2	15	✓
		2	30	
Glycobiology (Lect.)	Dr Dorota Maszczak-Seneczko	2	15	
Genomics and Molecular Evolution (Lect. & Comp. Lab.)	Prof. dr hab. Paweł Mackiewicz	3	30	✓
		3	30	
Seminar 2.	Dr Marcin Wolański	2	15	
Degree Project		12	150	
Elective lecture 2.:		2	15	
Fluorescence in Biology and Biotechnology	Dr Tomasz Trombik			
Molecular Basis of Neurodegenerative Diseases	Dr Marek Łuczowski			
Polish language (for foreigners, A1 level)			30	
	In total:	<b>33</b>	<b>385</b>	<b>3 exams</b>

### Semester III (summer 2020/2021)

course / module	lecturer/coordinator*	ECTS	hours	exam
Molecular Basis of Medical Microbiology (Lect.)	Prof. dr hab. Jolanta Zakrzewska-Czerwińska	2	15	
Protein Posttranslational Modifications in Genome Structure and Stability (Lect.)	Dr hab. Dorota Dziadkowiec	2	15	
Cancer Biology (Lect.)	Prof. dr hab. Ewa Marcinkowska	2	15	✓
Drug Carriers (Lect. & Lab.)	Dr hab. Jerzy Gubernator	2	15	✓
	Dr Anna Jaromin	2	30	
Seminar 3.		3	30	
Innovation and Transfer of Knowledge to Business (Lect.)	Dr Katarzyna Witczyńska	2	15	
Virology (Lect.)	Dr Beata Orzechowska	3	30	✓
Degree Project		12	150	
Elective lecture 3.		2	15	
Foreign language (English, B2+ level)			60	
	In total:	<b>32</b>	<b>390</b>	<b>3 exams</b>

**Semester IV (summer 2020/2021)**

course / module	lecturer/coordinator*	ECTS	hours	exam
Genetic Manipulation and Selected Aspects of Gene Therapies (Lect.)	Dr hab. Prof. Ryszard Rzepecki	2	15	✓
Ethics in Biotechnology (Lect.)	Dr hab. Małgorzata Cebrat	2	15	
Elective lecture 4.		2	15	
Degree Project		23	240	
	In total:	<b>29</b>	<b>285</b>	<b>1 exam</b>
	<b>In total:</b>	<b>118</b>	<b>1354</b>	<b>10 exams</b>
Foreign language (English, B2+ level)		4		
Polish language (for foreigners, A1 level)		5		

\* Lecturers and/or course coordinators may change