

**Winter semester  
(10.2022-02.2023)**

<b>Course name</b>	<b>Type of course/ hours</b>	<b>ECTS</b>	<b>Field of study</b>	<b>Teacher</b>
Applications of bioinformatics	Lecture/ 15; Laboratory/ 15	2	Biotechnology	Dr hab.Andrzej Kasperski, prof UZ
Animal physiology	Lecture/ 30; Laboratory/ 45	7	Biology	Dr Mateusz Ciepliński
Basic techniques of genetic engineering	Lecture/ 15; Laboratory/ 45	6	Biotechnology	Dr Elżbieta Heger
Biodiversity and nature protection	Lecture/ 15; Exercise/ 15	5	Biology	Prof. Leszek Jerzak
Bioethics	Lecture/ 5	1	Biotechnology	Dr Tomasz Turowski
Biotechnology basics	Lecture/ 30	3	Biotechnology	Dr Andrzej Jurkowski
Ecophysiology	Lecture/ 15; Laboratory/ 15	2	Biology	Dr hab. Piotr Kamiński, prof.UZ
Evolutionary entomology	Lecture/ 30	2	Biology	Prof. dr hab. Beata Gabryś
Food biotechnology	Lecture/ 30; Laboratory/ 30	4	Biotechnology	Dr Andrzej Jurkowski
Invertebrate zoology	Lecture/ 30; Laboratory/ 45	7	Biology	Dr Elżbieta Roland
NGOs (non-governmental organizations) in Environmental Protection	Practice/ 15	2	Environmental protection	Dr Olaf Ciebiera
Object-oriented programming in biotechnology	Lecture/ 15; Laboratory/ 30	5	Biotechnology	Dr hab.Andrzej Kasperski, prof UZ
Praxeology	Lecture/ 15; Practice/ 15	2	Biotechnology	Dr Artur Wandycz
Process engineering	Lecture/ 30; Exercise/ 30	6	Biotechnology	Dr Julia Nowak-Jary
Toxins of plants and fungi	Lecture/ 15	1	Biology	Prof. dr hab. Beata Gabryś

**Summer semester  
(03.2023-06.2023)**

<b>Course names</b>	<b>Type of course/ hours</b>	<b>ECTS</b>	<b>Field of study</b>	<b>Teacher</b>
Biochemistry II (Metabolism)	Lecture/ 30; Laboratory/ 30	5	Biotechnology	Dr hab.Beata Machnicka, prof UZ
Biological databases	Lecture/ 15; Laboratory/ 15	2	Biotechnology	Dr Elżbieta Heger
Biological molecules labeling technique	Lecture/ 15; Laboratory/ 45	7	Biology	Dr hab. Beata Machnicka/ Dr Dżamila Bogusławska
Ecology of working environment	Practice/ 15	2	Environmental protection	Dr Artur Wandycz
Field course in invertebrate zoology	Practice/ 30	2	Biology	Dr Elżbieta Roland
Enzymology	Lecture / 20; Laboratory/ 30	7	Biology	Dr hab. Andrzej Kasperski
Microbiology with immunology	Lecture/ 30; Laboratory/ 45	7	Biology	Dr Sylwia Andrzejczak-Grządko
Molecular organization of the cell	Lecture/ 25; Laboratory/ 30	5	Biotechnology	Dr Elżbieta Heger
Nanobiotechnology	Lecture/ 15; Laboratory/ 45	6	Biotechnology	Dr Anna Timoszyk
Phytosociology	Lecture/ 30; Practice/ 30	5	Environmental protection	Dr Dmytro Iakushenko
Spatial Information Systems	Laboratory/ 30	3	Environmental protection	Dr Olaf Ciebiera
Statistics in environmental studies	Lecture/ 15; Laboratory/ 15	3	Environmental protection	Dr hab. Marian Giertych, prof UZ
Techniques of phylogenesis reconstruction	Lecture/ 15; Laboratory/ 15	4	Biology	Dr hab. Andrzej Kasperski, prof UZ