1.	**Field of study**	**Biophysics**
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2023/2024 (winter term), 2024/2025 (winter term)
4.	Level of qualifications/degree	first-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time

7.	**General information about the module**
Module name	**Fundamentals of Cell Biology**
Module code	W4-BF-S1-1-23-06
Number of the ECTS credits	3
Language of instruction	Polish
Purpose and description of the content of education	The purpose of the module is to show the cell as the basic structural and functional unit of all living organisms. During the course, students will deepen their knowledge of cell types, cell organelles, their functions, the life cycle of the cell, processes of cell differentiation and the pathways leading to cell ageing and death. The students will also acquire knowledge of cell-cell interactions and interactions between the cell and the extracellular matrix and signal transduction pathways in the cell.
List of modules that must be completed before starting this module (if necessary)	not applicable

8. Learning outcomes of the module

Code	Description	Learning outcomes of the programme	Level of competenc (scale 1-5)
E1	The student knows and understands the structure of the prokaryotic and eukaryotic cell, and the functions and differences resulting from the structure.	W02	1
E2	The student is capable of describing the course of intracellular processes and the interaction of organelles, as well as analyzing cellular mechanisms that project the functions of the whole multicellular organism.	U02 W03	1 1
E3	Students can describe the stages that make up the cell dividing cycle and characterize the types of cell death.	W05	1
E4	Student is capable of discussing the types of communication between cells, between the cell and the extracellular matrix, and signal transduction pathways in the cell.	U02	1
E5	Students can acquire information from scientific literature, databases and other sources on a selected topic; they can integrate the data obtained, interpret them and draw conclusions.	K01 U08	1 1

9. Methods of conducting classes

Code	Category	Name (description)
a01	Lecture methods / expository methods	Formal lecture/ course-related lecture *a systematic course of study involving a synthetic presentation of an academic discipline; its implementation assumes a passive reception of the information provided*

10.	Forms of teaching				
Code	**Name**	**Number of hours**	**Assessment of the learning outcomes of the module**	**Learning outcomes of the module**	**Methods of conducting classes**
FZ1	lecture	30	exam	E1, E2, E3, E4, E5	a01

11.	The student's work, apart from participation in classes, includes in particular:		
Code	**Category**	**Name (description)**	**Is it part of the BUNA?**
a02	Preparation for classes	Literature reading / analysis of source materials *reading the literature indicated in the syllabus; reviewing, organizing, analyzing and selecting source materials to be used in class*	Yes
b01	Consulting the curriculum and the organization of classes	Getting acquainted with the syllabus content *reading through the syllabus and getting acquainted with its content*	No
c03	Preparation for verification of learning outcomes	Implementation of an individual or group assignment necessary for course/phase/ examination completion *a set of activities aimed at performing an assigned task, to be executed out of class, as an obligatory phase/element of the verification of the learning outcomes assigned to the course*	No

Information on the details of the module implementation in a given academic year can be found in the syllabus available in the USOS system: https://usosweb.us.edu.pl.