

Subject card

Subject name and code	The basics of organic chemistry for oceanographers - auditory exercises, PG_00159310						
Field of study	Oceanography						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		Polish		
Semester of study	4		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Toxic Substances Transformation -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Marta Staniszevska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	15		2.0		13.0	30
Subject objectives	Acquiring basic skills enabling the connection of the structure and properties of individual groups of organic compounds in the context of physical and chemical processes in the marine environment. Acquiring the ability to identify and correctly name basic groups of organic compounds						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	OCEANL3-U01		is able to use current terminology in the field of organic chemistry		[SU2] presentation/project/paper/report [SU4] test/exam - oral or written		
	[OCEANL3-K04] is willing to constantly deepen knowledge in the field of oceanography and improve professional qualifications, supported by the knowledge of experts		is ready to continuously expand knowledge of organic compounds in the context of their behavior in the marine environment		[SK2] presentation/project/paper/report		
	OCEANL3-W01		knows and understands specialized terminology related to organic chemistry		[SW4] test/exam - oral or written		
Subject contents	B.1 Recognizing and naming functional groups in organic compounds. Nomenclature and nomenclature of organic compounds. Summary, structural formula. Homologous series. Structural (constitutional) isomerism and stereoisomerism. B.2Influence of the structure of an organic compound (including functional groups) on its physical and chemical properties. Polar and non-polar organic compounds. B.3 Predicting the behavior of various groups of organic compounds in the marine environment, with various physical and chemical properties, i.e.: molecular weight, acidity-basicity, polarity, lipophilicity, volatility, durability, toxicity.						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	presentation	51.0%	25.0%
	test 3	51.0%	25.0%
	test 2	51.0%	25.0%
	test 1	51.0%	25.0%
Recommended reading	Basic literature	1. Morrison T.R., Boyd N.R., Organic Chemistry, PWN Warszawa 1994.2. Mastalerz P., Textbook of organic chemistry, Wydawnictwo Chemiczne, Wrocław 1996.3. Kupryszewski G., Introduction to organic chemistry, PWN, 1979, Warsaw	
	Supplementary literature	-	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Ability to name and nomenclature selected organic compounds and recognize and name functional groups in organic compounds.The ability to predict the behavior of various groups of organic compounds in the marine environment, with various physical and chemical properties, such as: molecular weight, acidity-basicity, polarity, lipophilicity, volatility, durability, toxicity, and depending on environmental conditions.Finding answers include: to questions about what influences the durability, solubility in water or bioavailability of organic pollutants.Preparation of a presentation on the circulation of selected organic pollutants in the marine environment.		
Work placement	Not applicable		

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