

**Subject card**

<b>Subject name and code</b>	The Basics of Organic Chemistry for Oceanographers - auditory classes, PG_00206140						
<b>Field of study</b>	Oceanography						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2027/2028		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	4	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Laboratory of Toxic Substances Transformation -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr hab. inż. Marta Staniszweska				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	15.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		1.0		9.0	25
<b>Subject objectives</b>	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						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>		<b>Method of verification</b>		
	[OCEANL3-U01] is able to use the current scientific terminology in the field of oceanography in various forms of expression		is able to use current terminology in the field of organic chemistry		[SU2] presentation/project/paper/report [SU4] test/exam - oral or written		
	[OCEANL3-W01] has an advanced knowledge and understanding of the terminology used in oceanography and related exact and natural sciences (in Polish and a selected foreign language)		knows and understands specialized terminology related to organic chemistry		[SW4] 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		

Subject contents	<p>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.2 Influence 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.</p>																	
Prerequisites and co-requisites																		
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="453 530 794 562">Subject passing criteria</th> <th data-bbox="799 530 1141 562">Passing threshold</th> <th data-bbox="1145 530 1484 562">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 568 794 600">Presentation</td> <td data-bbox="799 568 1141 600">51.0%</td> <td data-bbox="1145 568 1484 600">25.0%</td> </tr> <tr> <td data-bbox="453 607 794 638">test 2</td> <td data-bbox="799 607 1141 638">51.0%</td> <td data-bbox="1145 607 1484 638">25.0%</td> </tr> <tr> <td data-bbox="453 645 794 676">test 1</td> <td data-bbox="799 645 1141 676">51.0%</td> <td data-bbox="1145 645 1484 676">25.0%</td> </tr> <tr> <td data-bbox="453 683 794 714">test 3</td> <td data-bbox="799 683 1141 714">51.0%</td> <td data-bbox="1145 683 1484 714">25.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Presentation	51.0%	25.0%	test 2	51.0%	25.0%	test 1	51.0%	25.0%	test 3	51.0%	25.0%
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Recommended reading	<p>Basic literature</p>	<p>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</p>																
	Supplementary literature	-																
	eResources addresses																	
Example issues/ example questions/ tasks being completed	<p>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.</p>																	
Work placement	Not applicable																	

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