University of Gdańsk

Subject card

Subject name and code	Bioinformatics Sequence Analysis, PG_00193520		
Field of study	Bioinformatics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2027/2028
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Subject group related to scientific research 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	3	ECTS credits	6.0
Learning profile	academic	Assessment form	credit
Conducting unit	Intercollegiate Faculty of Biotechnology UG-MUG -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Stanisław Ołdziej, prof. UG	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	45.0	0.0	0.0	60

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	60	0.0	90.0	150

Subject objectives

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Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOINL3_U03] Graduate applies mathematical and statistical methods to describe phenomena and analyze data; has the ability to perform data analysis in professional databases used in bioinformatics	n	[SU2] presentation/project/paper/ report
[BIOINL3_U05] Graduate has the ability to use scientific literature, including English-language sources on bioinformatics; has the ability to use appropriate databases	n	[SU2] presentation/project/paper/ report
[BIOINL3_W04] Has advanced knowledge of research techniques and tools used in bioinformatics	n	[SW2] presentation/project/paper/ report [SW3] text preparation/written work
[BIOINL3_K01] Is aware of the limitations of his own knowledge and skills; he demonstrates a willingness to constantly improve, update his knowledge and enhance his qualifications in bioinformatics	n	[SK2] presentation/project/paper/ report [SK3] text preparation/written work

Subject contents

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Prerequisites and co-requisites

<table>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>kolokwium</td><td>51.0%</td><td>70.0%</td></tr>
<tr><td>class work</td><td>51.0%</td><td>30.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">• P.G. Higgs, T.K. Attwood. Bioinformatyka i ewolucja molekularna, PWN, 2008
• A.D. Baxevanis, B.F.F. Ouellette (red.) Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins. Wiley-Liss, Inc. 2005.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">n</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3">n</td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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