KAPITAŁ LUDZKI
NARODOWA STRATEGIA SPÓJNOŚCI
Projekt współfinansowany przez Unię Europejską w ramach Europejskiego Funduszu Społecznego
UNIA EUROPEJSKA
EUROPEJSKI FUNDUSZ SPOŁECZNY

Course title	ECTS code
Contemporary scientific problems in biology - science tutoring	13.1.1455

Name of unit administrating study

null

Studies

faculty	field of study		
Faculty of Biology	Medical Biology	type	first tier studies (BA), second tier studies (MA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Biology	Biology	type	first tier studies (BA), second tier studies (MA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Biology	Genetics and Experimental Biology	type	first tier studies (BA)
		form	full-time
		specialty	all
		specialization	all
Faculty of Biology	Natural Resources Conservation	type	first tier studies (BA)
		form	full-time
		specialty	all
		specialization	all

Teaching staff

dr hab. Agnieszka Kowalkowska, profesor uczelni; dr hab. Wojciech Pokora, profesor uczelni; dr Ewa Piotrowska

Forms of classes, the realization and number of hours

Forms of classes

Workshops

The realization of activities

classroom instruction, online classes

Number of hours

Workshops: 30 hours

ECTS credits

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ESTIMATION OF WORK TIME
Working in contact with the teacher:
Participation in workshops - 30 hours
Consultations - 5 hours
The unassisted student work (studying the literature, preparing essey): 15 hours
TOTAL: 50 hours

The academic cycle

2022/2023 winter semester

Type of course

an elective course

Language of instruction

english

Teaching methods

- - multimedia presentations
- analysis of selected scientific texts with discussion (Problem Based Learning method, teamwork-based tasks)
- practical exercises (worksheets, individual and team work)
- scientific essay (scientific tutoring, peer tutoring, teamwork)
- seminar lecture

Form and method of assessment and basic criteria for eveluation or examination requirements

Final evaluation

Graded credit

Assessment methods

The assessment covers:
- activity during classes and participation in discussions.
- final papers (worksheets, problem tasks, essay)
The sum of the points obtained from the three blocks is converted into the final grade according to the percentage rate of the Study Regulations of the University of Gdansk

The basic criteria for evaluation

	The conditions for completing the course are: - attendance in accordance with the UG Study Regulations - positive evaluation grade. The student is obliged to participate in the classes, and in the event of absence, she/he should be excused in accordance with the UG Study Regulations. The student is obliged to fill in the gaps in knowledge and skills caused by the absence from the classes in the manner and within the time limit indicated by the teacher.

Method of verifying required learning outcomes

Required courses and introductory requirements

A. Formal requirements

B. Prerequisites

Communicative knowledge of English (reading articles in English)

Aims of education

Developing skills of discussion and correct argumentation. Preparation for the analysis of scientific texts. Improving the skills of writing scientific essays in teams. Creating the basis for critical reflection on selected problems of contemporary biology, developing the student's interests and the ability to solve research problems. Developing peer assessment and self-assessment skills. Developing soft skills: team communication, goal setting, work time management.

Course contents

- introduction to the subject of selected scientific problems in modern biology,
- an introduction to the scientific method,
- discussion of soft skills facilitating individual and team work: techniques for setting and achieving goals, time management, motivation and team communication

Bibliography of literature

A. Literatura wymagana do ostatecznego zaliczenia zajęć (zdania egzaminu):

A.1. wykorzystywana podczas zajęć

1. Juchniewicz P, Kloska A, Tylki-Szymańska A, Jakóbkiewicz-Banecka J, Węgrzyn G, Moskot M, Gabig-Cimińska M, Piotrowska E. (2018) Female Fabry disease patients and X-chromosome inactivation. Gene 641:259-264.

2. Kowalkowska AK, Pawłowicz M, Guzanek P. et al. (2018) Floral nectary and osmophore of Epipactis helleborine (L.) Crantz (Orchidaceae). Protoplasma 255, 1811–1825. https://doi.org/10.1007/s00709-018-1274-5

3. Kowalkowska AK, Kozieradzka-Kiszkurno M & Turzyński S. (2015) Morphological, histological and ultrastructural features of osmophores and nectary of Bulbophyllum wendlandianum (Kraenzl.) Dammer (B. section Cirrhopetalum Lindl., Bulbophyllinae Schltr., Orchidaceae). Plant Syst Evol 301, 609–622. https://doi.org/10.1007/s00606-014-1100-2

4. Mioduchowska M., Czyż M.J., Gołdyn B., Kilikowska A., Namiotko T., Pinceel T., Łaciak M., Sell J. 2018. Detection of bacterial endosymbionts in freshwater crustaceans: the applicability of non-degenerate primers to amplify the bacterial 16S rRNA gene. PeerJ, 6: 1-17.

5. Wojczulanis-Jakubas K, Kilikowska A, Fort J, Gavrilo M, Jakubas D, Friesen V. 2015. No evidence of divergence at neutral genetic markers between the two morphologically different subspecies of the most numerous Arctic seabird. Ibis (2015), 157: 787–797.

A.2. studiowana samodzielnie przez studenta

- current scientific articles from international journals provided by the teachers

B. Literatura uzupełniająca

The learning outcomes (for the field of study and specialization)	**Knowledge** - is familiar with the development and current state of knowledge, as well as the latest trends in biology, and indicates their relationship with other disciplines in the natural sciences, - describes basic methods in statistical analysis and understands their importance in interpretation of phenomena and processes, - explains relationships between achievements of a selected field of science and the discipline of natural sciences, and the possibilities of their use in socio-economic life, taking into account the sustainable use of biological diversity, - knows and understands the basic concepts and principles in the field of industrial property protection and copyright; is able to use patent information resources **Skills**

	- combines data from various sources and on this basis draws adequate conclusions, - reads and understands simple scientific biological texts in English, - independently searches for and uses available sources of biological information, including electronic resources, - learns independently, in a targeted manner, - prepares in writing well documented studies of selected biological problems
	Social competence
	- knows the limits of his/her own knowledge and understands the need for constant learning and development, and is open to new ideas, - makes a critical self-assessment of his/her own competences, as well as updates his/her knowledge and improves skills, - is able to organize work of a small team and demonstrates ability to work effectively in a team - is aware of responsibility for his/her own work and willingness to comply with the principles of teamwork, and taking responsibility for jointly implemented tasks, - understands the need for honesty and reliability in the scientific and professional work

Contact

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