



COURSE DESCRIPTION CARD - SYLLABUS

Course name

English

Course

Field of study

Bioinformatics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

2/4

Profile of study

general academic

Course offered in

English

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

0

Tutorials

30

Projects/seminars

0

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

mgr Anna Martynow

Responsible for the course/lecturer:

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Centre of Languages and Communication PUT

Prerequisites

Knowledge: Language competence compatible with level B1(CERF). The ability to use vocabulary and grammatical structures required on the high school graduation exam regarding productive and receptive skills.

Skills: Students should be able to use different sources of information and understand the need to widen their competence. They should be able to work individually and in a team.

Social competence: The student has to be honest, responsible, persevering, creative and respectful of other people, showing good manners and cognitive curiosity

Course objective

1. Enable the student to achieve language competence B2 (CEFR)



2. Improve the student's skills in using academic and professional language, specific for Bioinformatics, in all four linguistic skills.
3. Improve the study of a technical text.
4. Equip all students with the language and skills they need to succeed in an international working environment and everyday life.

Course-related learning outcomes

Knowledge

As a result of the course, the student should master technical vocabulary related to the following topics:

1. Enzymes and the basics of biocatalysis
2. Bioremediation, separation of biocomponents
3. The future of information technology and AI technology
4. Trends in currently developed technologies
5. Be able to define and explain terms, phenomena and processes related to the above issues

Skills

As a result of the course, the student is able to effectively:

1. make a presentation in English on a technical or popular science topic, and express themselves on general and technical topics, using the appropriate vocabulary and grammatical structures
2. express basic mathematical operations in English and interpret the data presented in the diagram / graph
3. formulate a text in English explaining / describing a selected specialist issue

Social competences

As a result of the course, the student should be able to:

1. work in a team, especially in a multicultural environment
2. think and act creatively and proactively
3. communicate effectively in English in a working environment and typical everyday life situations, and to make a public presentation
4. recognize and make use of / understand cultural differences in behaviour as well as in formal and private communication in English; in a different cultural environment

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Interim grades: formal coursework assignments (speaking assignments, presentations)



Final grade: credit

Programme content

1. Enzymes in food processing
2. Bioremediation and wastewater treatment
3. Artificial intelligence in bioinformatics
4. The future of computer technologies
5. Student presentations
6. Writing paragraphs: structure
7. Grammar issues
8. Preparation for the oral exam

Teaching methods

1. presentation, analysis of topics/problems shown on the board, lexical and grammatical tasks
2. discussion, teamwork, multimedia slide show, case study
3. student's individual work

Bibliography

Basic

1. Page, Alison and David Waters. 2016. Complete Computer Science for Cambridge IGCSE & O Level. Oxford: Oxford University Press
2. Kamińska, Urszula. 2016. English for Biotechnology. Gdańsk: Gdańsk University of Technology

Additional

1. Online sources.
2. Bailey, Stephen. 2011. Academic Writing: A handbook for international students. Routledge.



Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	30	1,0

¹ delete or add other activities as appropriate