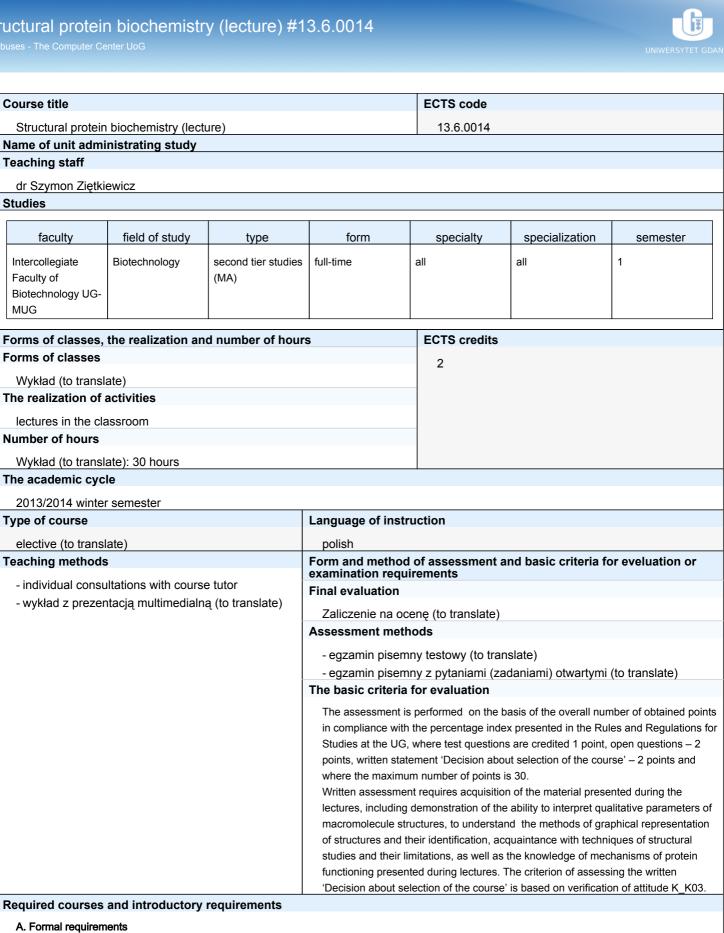
Structural protein biochemistry (lecture) #13.6.0014



B. Prerequisites

Knowledge of the courses: General Chemistry, Organic Chemistry, Physics

Aims of education

The aim of the course is to acquaint the student with basic notions concerning protein structures and introduce issues connected with structural studies of protein as well as analysis of structure - function dependence.

Students will acquire knowledge concerning the mechanisms of the functioning of proteins on molecular level, interactions determining the process of folding. (K W01). Students will also acquire knowledge concerning the ways of applying physical and computational methods of protein structure determination and modeling, and the role of physical phenomena and impacts on the structure and functioning of proteins (K_W02).

Course contents	
	utational methods eet structures, structural motifs, domains
Complementary bibliography 1. Biofizyka dla biologów, red. M. Bryszewska, W. 2. Introduction to Protein Structure, Branden C, To 3. Introduction to Protein Architecture, Lesk A	-
The learning outcomes	Knowledge
K_W01 K_W02 K_K01 K_K03	 K_W01 Understands complex biological phenomena on the molecular level, know their significance for biotechnology and their relationships with other areas and disciplines of science K_W02 Possesses a deepened knowledge in the field of related scientific areas and disciplines allowing him to see connections and dependencies in nature, in particular those essential for biotechnology
	Skills
	Social competence K_K01 Knows limitations of his/her knowledge, is willing to constantly upgrade an update his/her knowledge and raise qualifications within the field of biotechnology and related scientific areas and disciplines K_K03 Effectively plans his/her work, professional career, organizes his/her work, in particular in the lab or concerning reviews in the field of biotechnology and related scientific areas and disciplines

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