



Course name / code: FOOD BIOCHEMISTRY / 03S10-BIOCHZ

ECTS credit allocation (and other scores): 6

Semester: winter semester

Level of study: ISCED-6 - first-cycle program (EQF-6)

Branch of science: Agricultural sciences

Language: English

Number of hours per semester: 45

Course coordinator/ Department and e-mail: prof. dr hab. Małgorzata Darewicz/Chair of Food Biochemistry,
darewicz@uwm.edu.pl

Type of classes: classes

Substantive content

CLASSES: The enzymology exercises cover: enzymes mode of action, specificity, kinetics, the bioinformatics exercises concern the prediction of physicochemical properties of high- and low molecular weight molecules; analysis of proteins as the source of peptides with biological and functional properties and searching for compound data in databases using structure search options including molecule editors and chemical codes.

Learning purpose: To acquire the knowledge, skills concerning biomacromolecules, isolation and identification methods.

On completion of the study program the graduate will gain:

Knowledge: Student has knowledge of the structure and functions and metabolism of proteins, enzymes, lipids and carbohydrates.

Skills: Student plans, conducts and analyses the results of simple laboratory experiments.

Social Competencies: Student organizes work and distributes responsibilities.

Basic literature: Berg, Tymoczko, Stryer, Biochemistry, wyd. New York : W. H. Freeman and Company, 2012.

Supplementary literature: scientific articles proposed by teacher.