COURSE DETAIL

ENZYMOLOGY AND EXPERIMENTAL BIOCHEMISTRY
Country Denmark
Host Institution University of Copenhagen
Program(s) University of Copenhagen
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Chemistry Biochemistry
UCEAP Course Number 134
UCEAP Course Suffix
UCEAP Official Title ENZYMOLOGY AND EXPERIMENTAL BIOCHEMISTRY
UCEAP Transcript Title ENZYMOLOGY&BIOCHEM
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course is a study of theoretical and experimental work on enzymes, proteins, and peptides in biological matrices. There is an emphasis on experimental and theoretical understanding between structure and properties of the molecules. Concepts covered include extraction techniques, chromatographic systems, and solvent and buffer relations. Students develop an understanding of the properties of biomolecules (especially enzymes), strategies for efficient isolation and purification of enzymes from complex biological systems, analytical techniques used in biochemistry and for enzyme characterization, and the theoretical basis for changes of water as solvent, extraction, and chromatographic systems. Students evaluate the detection, quantification, and linearity of experimental data in relationship to published values, design experimental strategies in analytical biochemistry and enzymology, apply theoretical principles of analytical biochemistry to carry out experimental isolation and purification of enzymes, and evaluate the performance of applied techniques in an enzyme related project carried out in a group.

Language(s) of Instruction
English

Host Institution Course Number
LKEK10081U

Host Institution Course Title
ENZYMOLOGY AND EXPERIMENTAL BIOCHEMISTRY

Host Institution Campus
Science

Host Institution Faculty

Host Institution Degree

Host Institution Department
Food Science

Print