

COURSE DETAIL

BASIC BIOCHEMISTRY

Country

United Kingdom - England

Host Institution

University of London, Queen Mary

Program(s)

University of London, Queen Mary

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Biochemistry

UCEAP Course Number

105

UCEAP Course Suffix**UCEAP Official Title**

BASIC BIOCHEMISTRY

UCEAP Transcript Title

BASIC BIOCHEMISTRY

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course covers amino acids, the fundamentals of protein structure, isolation and purification of proteins, modification of proteins, and methods of determining protein conformation. It also covers the basics of enzyme catalysis and kinetics with specific case studies. Other topics include ion transport, and other transport proteins, and the utilization of proteins and soluble cofactors to generate and store metabolic energy. Students learn the basics of metabolism in glycolysis and the citric acid cycle, as well as ATP synthesis and membrane bound electron transfer in mitochondria. Chloroplasts in plants and algae, and molecular motors, such as muscles, that consume metabolic energy are also covered.

Language(s) of Instruction

English

Host Institution Course Number

BIO161

Host Institution Course Title

BASIC BIOCHEMISTRY

Host Institution Campus

Mile End

Host Institution Faculty

School of Biological and Behavioural Sciences

Host Institution Degree

Host Institution Department

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