LONDON'S GLOBAL UNIVERSITY

Biochemical Engineering

Biochemistry and Molecular Biology (BENG0004)

Description

The module aims to equip students with an understanding of basic biochemistry, molecular biology and molecular genetics and of how the science underpins bioprocess operations. Students gain in-depth learning about the properties of various small and macromolecules and how these build the cell structures and cell types they will be using and studying in their Biochemical Engineering degree.

Upon completion of the course, a student should be able to:

- Become familiar with the biological molecules, their structure and function.
- Understand the properties of enzymes and enzyme kinetics and their function in metabolic pathways.
- Characterise the major metabolic pathways of cell growth and metabolism.
- Know the cellular structures of bacteria, yeast and mammalian cells.
- Learn the fundamentals of genetics and how it leads into the construction and use of recombinant DNA.

Understand how proteins are expressed and how they can be purified for analysis.

Key information

Year	2019/20
Credit value	15 (150 study hours)
Delivery	UG L4, Campus-based
Reading List	View on UCL website
Tutor	Prof John Ward
Term	Term 2
Timetable	View on UCL website

Assessment

Coursework: 100%

Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit ucl.ac.uk