



Biochemical Engineering

Sustainable Industrial Bioprocesses and Biorefineries (BENG0037)

Description

This module provides students with an understanding of the principles, technologies and design of sustainable bioprocesses and biorefineries. Particular themes include the use of renewable resources, process integration including energy supply and waste treatment, design, operation and control of complex plants and life cycle assessment.

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

- Understand the general principles of sustainable bioprocesses and biorefineries
- Specify component technologies including monitoring and control systems
- Evaluate different strategies for operation and control of complex plants/biorefineries using simulations
- Understand the concept and applications of life cycle assessment
- Plan and design a biorefinery

Key information

Year	2019/20
Credit value	15 (150 study hours)
Delivery	PGT L7, Campus-based
Reading List	View on UCL website
Tutor	Dr Frank Baganz
Term	Term 2
Timetable	View on UCL website

Assessment



- Written examination (main exam period): 50%
- Coursework: 50%

Find out more

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



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