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**: 2018/19
- **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
- **Coursework**: 50%
- **Written examination (main exam period)**: 50%

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

Disclaimer: All information correct as of December 2018. Please note that aspects of the module may be subject to change. UCL will make best efforts to inform applicants of major changes.
Biochemical Engineering

Sustainable Industrial Bioprocesses and Biorefineries (BENG0037)

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