Biochemical Engineering

Bioprocess Plant Design (BENG0022)

Description

The course is designed to apply underpinning science and engineering knowledge gained in earlier courses towards the complete design of a bioprocess plant for the production of biotech products arising out of life science discoveries. Such products would typically include biopharmaceutical products arising out of Phase II clinical trials.

Intended learning outcomes

Upon completion of the course, a student will acquire skills to:

- Examine key phases in the design cycle applied to facility design
- Create and analyse bioprocess flowsheets
- Economically appraise bioprocess flowsheets
- Perform detailed design of the facility and the bioprocess equipment required to satisfy GMP and safety, health and environmental (SHE) regulations
- Apply engineering principles and life science knowledge to an industrially-relevant open-ended problem
- Make decisions under uncertainty and having incomplete data
- Plan, organize and prioritize team activities
- Defend design options and decisions taken

Key information

Year: 2018/19
Credit value: 30 (300 study hours)
Delivery: UG L6, Campus-based
Reading List: View on UCL website
Tutor: Prof Suzanne Farid
Term: Terms 1 and 2
Timetable: View on UCL website

Assessment

- Oral examination (departmentally managed): 10%
- Coursework: 80%
- Practical examination (departmentally managed): 10%

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.