



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

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