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