Biochemical Engineering

Computer Aided Bioprocess Engineering (BENG0025)

**Description**
This course is designed to help students to develop knowledge of how to use IT software, acquire elementary programming skills and numerical methods to solve bioprocess problems; to be aware of the concepts of bioprocess dynamics and control for product quality and plant safety.

**Intended learning outcomes**
Upon completion of the course, a student should be able to:

- use different computational software such as BioSolve and Matlab, for bioprocess design, operation and management within the framework of solving biochemical engineering problems
- use simulation and optimisation for bioprocess design and operation decision-making
- obtain the skills to design and assess a control system in bioprocesses

**Key information**
- **Year**: 2018/19
- **Credit value**: 15 (150 study hours)
- **Delivery**: UG L6, Campus-based
- **Reading List**: View on UCL website
- **Tutor**: Dr Yuhong Zhou
- **Term**: Term 1
- **Timetable**: View on UCL website

**Assessment**
- Written examination (main exam period): 65%
- Coursework: 35%
- Coursework: 100%

**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.