

Biochemical Engineering

MRes Synthetic Biology Research Project (BENG0046)**Description**

This module aims to give students hands on experience of all aspects of original scientific research, from the initial experimental design of the project to the practical experiments and analysis and written and oral communication of the findings. This module consists of an extended laboratory based research project. Students will select a project within their allocated field and be allocated an individual supervisor and carry out an extended research project. Within the specified research area, each student will be given hands on experience in experimental design, the relevant experimental techniques, data acquisition and analysis, together with guidance on the theoretical background underlying their project and the preparation of a dissertation based on their findings

Upon completion of the course, a student should be able to:

- Gain in depth knowledge of the theoretical basis underlying the selected research topic
- Understand the nature of good experimental design and design a plan independently
- Learn the experimental techniques applicable to the selected research topic
- Analyze original data critically and place it in the context of what is already known
- Practice the principles of advanced scientific writing in the form of a dissertation
- Gain hands-on, in-depth laboratory experience of an extended laboratory research project

Key information

Year	2019/20
Credit value	120 (1200 study hours)
Delivery	PGT L7, Campus-based
Reading List	View on UCL website
Tutor	Prof John Ward
Term	Calendar Year
Timetable	View on UCL website

Assessment

- Report: 90%
- Oral examination (departmentally managed): 10%

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