



## Biochemical Engineering

## Vaccine Bioprocessing (BENG0028)

## Description

This course seeks to instruct in the various stages of vaccine development and commercialisation. As many vaccines are administered to healthy individuals, the regulatory requirements shape development unlike any other biopharmaceutical. Students will learn about the historical importance of early vaccines, the modification to the 'regulatory lock,' and process development challenges for vaccine manufacture.

Intended learning outcomes

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

- Identify active and passive immune therapies
- Understand the regulatory burden for vaccine manufacture
- Distinguish between process choices for bacterial and viral vaccines
- Understand antigen design
- Distinguish between the multiple methods of action for an adjuvant
- Appreciate vaccine development within a closed 'artificial' market
- Make cost bases analyses on process changes
- Understand 'production at risk'

## Key information

<b>Year</b>	2018/19
<b>Credit value</b>	15 (150 study hours)
<b>Delivery</b>	UG L6, Campus-based
<b>Reading List</b>	<a href="#">View on UCL website</a>
<b>Tutor</b>	<a href="#">Prof Tarit Mukhopadhyay</a>
<b>Term</b>	Term 1
<b>Timetable</b>	<a href="#">View on UCL website</a>

## Assessment

BAD ASSESMENT DATA

## Find out more

For more information about the department, programmes, relevant open days and to browse other modules, visit [ucl.ac.uk](http://ucl.ac.uk)

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<b>Year</b>	2018/19
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<b>Term</b>	Term 1
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## Assessment



- Written examination (main exam period): 70%
- Coursework: 30%

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