



## Biochemical Engineering

## Advanced Materials, Devices and Manufacturing Processes for Regenerative Medicine (BENG0032)

### Description

The aim of the module is to provide students with a working understanding of advanced biomaterials and process discovery devices that are used for regenerative medicines manufacture and the considerations regarding infrastructure requirements for clinical grade manufacture of regenerative medicines. This will provide students with the skills that would be highly desirable by a growing regenerative medicine manufacture industry and the Cell Therapy Catapult.

Intended learning outcomes

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

- Understand the physical, mechanical and thermal properties of different materials and their application to manufacturing processes for emerging regenerative medicines.
- Appreciate novel technologies currently employed for regenerative medicine manufacture, with specific emphasis on the utility and application of microfluidic devices to process discovery.
- Develop an understanding of how new manufacturing processes for stem cells rely upon clinical grade manufacturing.

### 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="#">Miss Rana Khalife</a>
<b>Term</b>	Term 1
<b>Timetable</b>	<a href="#">View on UCL website</a>

### Assessment



- Written examination (main exam period): 60%
- Coursework: 30%
- Oral Presentation: 10%

### 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)