

## Liverpool John Moores University

Title: CELL BIOLOGY  
Status: Definitive  
Code: **4102BMBMOL** (122373)  
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences  
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

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**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 57  
**Total Learning Hours:** 200      **Private Study:** 143

### Delivery Options

Course typically offered: Semester 1 and Summer

Component	Contact Hours
Lecture	45
Practical	9
Workshop	1

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Presentation	Poster	Students will present a group poster on a piece of research they have performed investigating changes in cell biology associated with disease. They will be assessed on their	50	

Category	Short Description	Description	Weighting (%)	Exam Duration
		ability to formulate the poster material in addition to present and subsequently discuss their findings.		
Exam	Exam	The final assessment for this module will be an EDPAC style MCQ assessment in which students are required to choose a correct answer from 5 possible answer. The assessment will not be negatively marked.	50	2

## Aims

*To provide a fundamental introduction to cellular biology and the manner in which the functions of individual cells contribute to the overall function of a tissue in health and disease.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Define the role of important organelles and molecules in the overall survival of a cell
- 2 Identify the key cell types which specialise the function of a range of tissues
- 3 Exemplify how changes in cell and tissue biology result in disease

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Group Poster	2	3	
Presentation			
MCQ Exam	1	2	3

## Outline Syllabus

*The module provides an overview of cell biology and the ways in which the functions of individual cells contribute to the function of tissues. As well as considering the structure and function of organelles, and how cell division and the cell cycle underpins growth and repair, the module will address cell/extracellular environment interactions. The histology of important tissues (including blood, epithelial, nervous and connective tissues, cartilage and bone) will be covered and specialisation in organs such as liver, kidney, cardiovascular, respiratory and reproductive systems will be introduced to underpin developments of the work in later modules. Changes in tissue during disease will form an introduction to the more specialised developments of Biomedical Science.*

## Learning Activities

Lectures, Practical Exercises and an Assessment Workshop

## Notes

This course is designed to provide students with foundational skills in cell biology. Throughout the course we will cover in detail, fundamental cellular processes, cellular contents and cell turnover in addition to how cells become specialised to perform specific roles in tissues during the histology component. In addition the module will also begin to equip students with some of the practical biological skills on which they will build as they progress through their studies.

No specific benchmarks are available for this module, but the learning outcomes at least meet, if not exceed, those stipulated in the relevant qualification descriptors for a higher education qualification at level 4 as defined by QAA, Sept 2015. The module has also been informed by the benchmark statement for Biomedical Science June 2015.

Intake is every September.

The criteria for admission to the module require that candidates meet the criteria for admission to the BSc Biomedical Science programme (32805).

The final award is Certificate of Professional Development in Cell Biology, 20 credits at Level 4.

The students have access to a module Blackboard site and the University's other range of electronic support such as access to the electronic library facilities. The module content is regularly updated on the Blackboard site including contemporary reading lists and links to journal articles. Students have access to the community site for Biomedical Science. All students have access to the module leader through phone contact and email. Module and CPD guides are also provided, which provide a range of information.

The programme is assessed and run in line with the Academic Framework

<http://www.ljmu.ac.uk/eaqs/121984.htm>

The module is accredited by The Institute for Biomedical Science (Sept 2016- Aug 2021). The module forms part of the BSc Biomedical Science programme (32805) which was reviewed in April 2016.

The methods for improving the quality and standards of learning are as follows:

- Annual monitoring Review;
- Liaison and feedback from the students;
- Reports from External Examiner;
- Programme team ensuring the module reflects the values of the current teaching and learning strategy;
- Module leader updating knowledge and skills to ensure these remain current and relevant.

The module is included in the programme specification for the BSc Biomedical Science programme (32805). The module is aligned with the same BSc Biomedical Science module for annual monitoring and external examining purposes.

There is an optional summer presentation of this module available for degree apprentices.