

## Liverpool John Moores University

Title: INTRODUCTION TO BIOMEDICAL SCIENCE  
Status: Definitive  
Code: **4104BMBMOL** (122375)  
Version Start Date: 01-08-2021

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

Team	Leader
Emmanuel Babafemi	Y
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**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 55  
**Total Learning Hours:** 200      **Private Study:** 145

### Delivery Options

Course typically offered: Semester 2 and Summer

Component	Contact Hours
Lecture	33
Tutorial	6
Workshop	16

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	essay	Essay related to the lecture material for the module	40	
Practice	practice	Practical scenarios related to clinical practice	60	

### Aims

*To introduce the work of clinical laboratories and recent developments of relevance to biomedical scientists and also to foster course identity.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Describe the organisation of the clinical laboratory services in the UK and be acquainted with career opportunities and recent developments in the biomedical sciences
- 2 Describe patterns of disease epidemics and give specific accounts of medical laboratory science practice in detection and control of disease and the effect these have on public health strategies. Identifying environmental, socio-economic and cultural factors affecting communities.
- 3 Describe some aspects of the legal regulation of medicine, healthcare delivery and medical research, including medical ethics and animal experimentation: including MHRA, UKAs and HTA.

## Learning Outcomes of Assessments

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

Tutorial essay	2	
Practical scenarios	1	3

## Outline Syllabus

*The role of professional and regulatory bodies; IBMS and HCPC, MHRA, UKAS and HTA.*

*The nature and organisation of work carried out in clinical laboratories.*

*Recent developments in biomedical sciences.*

*The role of biomedical laboratories in relation to health issues.*

*Social, economic, environmental and cultural factors which enhance or discriminate against health.*

*Principles and practice of screening tests in the control of disease, and monitoring of disease during epidemics and the effects on public health strategies.*

*Medical Ethics, local Ethical Review Committees, legal regulation.*

*Animal experimentation, Home Office Licences, legal implications, ethical review.*

## Learning Activities

Lectures, tutorials and workshops.

## Notes

To introduce student to the role of pathology laboratories in the diagnosis of disease via lectures, tutorials and workshops.

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 Introduction to Biomedical Science, 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.