

## Module Information

2022.01, Approved

### Summary Information

Module Code	4104BMBMOL
Formal Module Title	Introduction to Biomedical Science
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

### Learning Methods

Learning Method Type	Hours
Lecture	33
Tutorial	6
Workshop	16

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
APR-CTY	CTY	April	12 Weeks
JAN-CTY	CTY	January	12 Weeks

### Aims and Outcomes

Aims	To introduce the work of clinical laboratories and recent developments of relevance to biomedical scientists and also to foster course identity.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	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
MLO2	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.
MLO3	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.

### Module Content

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.
Module Overview	The aim of this module is to introduce the work of clinical laboratories and recent developments of relevance to biomedical scientists.
Additional Information	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 Canvas 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 Canvas 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 <a href="http://www.ljmu.ac.uk/eaqs/121984.htm">http://www.ljmu.ac.uk/eaqs/121984.htm</a> 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: <ul style="list-style-type: none"> <li>• Annual monitoring Review;</li> <li>• Liaison and feedback from the students;</li> <li>• Reports from External Examiner;</li> <li>• Programme team ensuring the module reflects the values of the current teaching and learning strategy;</li> <li>• Module leader updating knowledge and skills to ensure these remain current and relevant.</li> </ul> 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.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Essay	Tutorial essay	40	0	MLO2
Report	Practical scenarios	60	0	MLO1, MLO3

## Module Contacts

### Module Leader

Contact Name	Applies to all offerings	Offerings
Emmanuel Babafemi	Yes	N/A

### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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