

Summary Information

Module Code	6112BMBMOL
Formal Module Title	Integrated Biomedical Science
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Pharmacy & Biomolecular Sciences

Learning Methods

Learning Method Type	Hours
Lecture	38
Workshop	14

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
			12 Weeks

Aims and Outcomes

Aims	The aim of this module is to introduce clinical case studies and show how laboratory investigation assists in the diagnosis of disease. The physiology, pathology and laboratory investigation of major diseases will be covered.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically discuss the physiological and pathological processes associated with liver, pancreas, gut, kidneys, respiration, cardiovascular and endocrine systems.
MLO2	2	Critically discuss the function and structure of the classical laboratory disciplines used in investigating the pathology of the above systems.
MLO3	3	Demonstrate the ability to apply and critical evaluate the clinical case study and relate it to appropriate diagnosis.

Module Content

Outline Syllabus	Physiology and function of liver gut and pancreas (integrated role in metabolism). Pathology of liver, role of laboratory in investigating liver, gut and pancreatic disease. Physiology and function of the kidney, pathology of kidney and the role of laboratory in investigating renal function. Physiology of respiration, pathology of the lung and the role of the laboratory in investigating respiration. Cardiovascular disease, pathologies associated with cardiovascular disease and the role of laboratory in investigating cardiovascular disorders. Physiology of the endocrine system, diseases associated with endocrine disorders and the role of laboratory in investigating endocrine function. Role of microbiology in the assessment of the above organs.
Module Overview	
Additional Information	The module will be delivered in semester 2 and consists of lectures and workshops. The learning outcomes meet those stipulated in the relevant qualification descriptors for a higher education qualification at level 6 as defined by QAA, October 2019. The module has also been informed by the benchmark statement for Biomedical Science October 2019. Intake is every September. The criteria for admission to the module requires that candidates meet the criteria for admission to the BSc Biomedical Science programme. The final award is Certificate of Professional Development in Integrated Biomedical Science, 20 credits at Level 6. 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.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Case Studies	100	0	MLO1, MLO2, MLO3

Module Contacts