

Liverpool John Moores University

Title: PRINCIPLES OF HUMAN BIOLOGY AND DISEASE
Status: Definitive
Code: **4003PHASCI** (122589)
Version Start Date: 01-08-2021

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

Team	Leader
Vicki Anderson	Y
Emmanuel Babafemi	
Darren Sexton	
Jo Foulkes	
James Downing	
Elsie Gaskell	
Shaqil Chaudary	

Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 61
Total Learning Hours: 200 **Private Study:** 139

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	26
Practical	15
Tutorial	2
Workshop	16

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	CW	Laboratory report	40	
Exam	Exam	Written examination	60	2

Aims

To explore principles of human physiology and pathology with respect to homeostatic mechanisms. To demonstrate an understanding of bacteria, viruses and fungus and their role in human health and disease.

Learning Outcomes

After completing the module the student should be able to:

- 1 Recall the principles of cellular communication.
- 2 Identify the importance of homeostatic control in the human body and pathophysiology of these regulatory systems.
- 3 Recognise the replicative cycle of bacteria, fungi and viruses and their role in human health and disease.
- 4 Demonstrate an understanding of bacteria and anti-bacterial agents through practical application.
- 5 Describe the structure and function of the human immune system and the implications of immune disease.

Learning Outcomes of Assessments

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

Laboratory report	3	4	5	
Examination	1	2	3	5

Outline Syllabus

Introduction to cell biology
Autonomic and central nervous systems
Concepts in homeostasis
Haematology
Introduction to Endocrinology
GI endocrinology
Classification of microorganisms
GI Microbiome - role in human health and disease
Microbiology in health and medicine
Bacteria and disease
Antibacterial agents
Viruses and viral disease and antivirals
Concepts in Immunology
Mycology and antifungals

Learning Activities

Lectures covering each topic within the module
Practical laboratory classes in microbiology techniques, including introductory

session on GLP and correct use of equipment.

Workshops - formative with oral feedback given during sessions and support for laboratory work

Lecture material is supported and self-assessed by formative, online quizzes

Notes

The module provides an introduction to human physiology and microbiology.