

Liverpool John Moores University

Title: Biology
Status: Definitive
Code: **3516IFYSP** (119754)
Version Start Date: 01-08-2017

Owning School/Faculty: Academic Portfolio
Teaching School/Faculty: Academic Portfolio

Team	Leader
Kamila Tomczak	Y

Academic Level: FHEQ3
Credit Value: 24
Total Delivered Hours: 121.5
Total Learning Hours: 240
Private Study: 118.5

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	60
Seminar	30
Tutorial	10
Workshop	20

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	1000 word report	50	
Exam	AS2	End of year exam	50	1.5

Aims

To provide foundation students with an introduction to physiological processes in animals and plants with an emphasis on mammalian physiology (especially human). Students will also acquire an understanding of biologically important molecules and cells and tissues in preparation for progression to degree programmes in biological and biomedical sciences.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate an understanding of key concepts outlined in the syllabus, most notably molecule, cells and tissues
- 2 Describe the structural and functional properties of the various human physiological systems covered in the syllabus
- 3 Explain the role of hormones in the regulation of physiological systems
- 4 Interpret experimental data and explain results using relevant scientific knowledge

Learning Outcomes of Assessments

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

Report	4		
Exam	1	2	3

Outline Syllabus

Biologically important molecules – proteins (including enzymes), carbohydrates, lipids, nucleic acids

Cells and tissues – the cell, metabolism, membrane transport, cell division and mitosis, reproduction, inheritance, epithelial tissue, connective tissue, excitable tissue

Systems – homeostasis, endocrine, nervous, cardiovascular (including blood), respiratory, digestive, reproduction, urinary, immune, musculoskeletal

Learning Activities

Lectures and seminars will be used to consolidate knowledge of biological concepts. Workshops will allow students to demonstrate application of knowledge. The presentation of facts and data will be a theme throughout the learning and teaching.

Notes

None