

## Liverpool John Moores University

Title: BIOLOGICAL BASIS OF HEALTH  
Status: Definitive  
Code: **4002PPPARA** (106946)  
Version Start Date: 01-08-2014

Owning School/Faculty: Nursing and Allied Health  
Teaching School/Faculty: Nursing and Allied Health

Team	Leader
John Ambrose	Y
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**Academic Level:** FHEQ4      **Credit Value:** 10.00      **Total Delivered Hours:** 25.00  
**Total Learning Hours:** 100      **Private Study:** 75

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	20.000
Seminar	4.000
Tutorial	1.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	Case study	Essay: 2500 word case study, on a chosen disease, injury or illness.	100.0	

### Aims

*To enhance the student's understanding of human biological systems. (BPA 9.2,9.3,9.5)*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Understand the principles and processes of homeostasis. (HPC 3a1)
- 2 Appreciate how the human body responds to infection, disease & injury. (HPC3a1,3a3)
- 3 Describe the bodily and behavioural changes associated with common conditions and injuries. (HPC 3a1)

## Learning Outcomes of Assessments

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

Case study 2,500 words                      1    2    3

## Outline Syllabus

*Microbiology*  
*Immunology*  
*Haemodynamics*  
*Endocrine system*  
*Homeostatic imbalance*  
*Positive and negative homeostatic feedback mechanisms*

## Learning Activities

Lectures, group discussion, e-learning materials, group work.

## References

<b>Course Material</b>	Book
<b>Author</b>	Chiras, D
<b>Publishing Year</b>	2002
<b>Title</b>	Human Biology
<b>Subtitle</b>	health, homeostasis and the environment
<b>Edition</b>	4th
<b>Publisher</b>	Jones & Bartlett
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Playfair et al
<b>Publishing Year</b>	1998
<b>Title</b>	Medical Microbiology
<b>Subtitle</b>	
<b>Edition</b>	2nd
<b>Publisher</b>	Mosby

<b>ISBN</b>	
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<b>Course Material</b>	Book
<b>Author</b>	Caroline, N
<b>Publishing Year</b>	2007
<b>Title</b>	Nancy Caroline's Emergency Care on the Streets
<b>Subtitle</b>	
<b>Edition</b>	6th
<b>Publisher</b>	Jones & Bartlett
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Clarke
<b>Publishing Year</b>	2008
<b>Title</b>	In Defence of Self
<b>Subtitle</b>	how the immune system really works
<b>Edition</b>	
<b>Publisher</b>	Oxford University Press
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Mattson Porth, C. Matfin, G.
<b>Publishing Year</b>	2009
<b>Title</b>	Pathophysiology
<b>Subtitle</b>	Concepts of Altered Health States
<b>Edition</b>	8th
<b>Publisher</b>	Lippincott-Raven
<b>ISBN</b>	

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## Notes

This module enhances the understanding of the human biological systems that students will have developed in introduction to anatomy & physiology. It will consider how systems at the cellular level relate to human health and functioning. Pathophysiology and immunology will also be examined.