

Liverpool John Moores University

Title: HUMAN BIOLOGY AND ECOLOGY
Status: Definitive
Code: **4005UGPUBH** (113060)
Version Start Date: 01-08-2014

Owning School/Faculty: Centre for Public Health
Teaching School/Faculty: Centre for Public Health

Team	Leader
Graeme Mitchell	Y
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Academic Level: FHEQ4 **Credit Value:** 15.00 **Total Delivered Hours:** 28.00
Total Learning Hours: 150 **Private Study:** 122

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	18.000
Off Site	4.000
Seminar	4.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Exam: short answers	50.0	2.00
Report	AS2	Report on a disease and its relationship to the environment (1500 words)	50.0	

Aims

- 1: To provide students with an introduction to and an understanding of the structure and function of the human body
- 2: To provide students with an understanding of biological processes in relation to

the environment, and the basic principles of ecology, including the biosphere and its processes

3: To provide students with an understanding of how disease can affect the major systems of the human body

Learning Outcomes

After completing the module the student should be able to:

- 1 Outline and describe the basic anatomical structures of the major systems of the human body
- 2 Explain the basic functioning of the major systems of the human body
- 3 Explain how disease processes can affect the body
- 4 Indicate how the environment impacts on human health
- 5 Describe basic processes of the biosphere and explain how these affect human health

Learning Outcomes of Assessments

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

EXAM	1	2	3
Report	3	4	5

Outline Syllabus

*The relationship between humans and their environment.
Basic scientific terminology and body systems and common related diseases.
The biosphere and its processes, including, climate change and concepts of recycling and renewal. Natural resources and how they are used in society.
Basic principles of ecology.*

Learning Activities

Interactive lectures and presentations, guided reading, student led discussions and Blackboard.

References

Course Material	Book
Author	Thibodeau, G.A. and Patton, K.T.
Publishing Year	2005
Title	The Human Body in Health and Disease.
Subtitle	
Edition	4th edition.
Publisher	Elsevier

ISBN	
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Course Material	Book
Author	Memmler, R.L. and Janson Cohen, B.
Publishing Year	2005
Title	The Human Body in Health and Disease.
Subtitle	
Edition	10th edition.
Publisher	Lippincott, Williams and Wilkins
ISBN	

Course Material	Book
Author	D'Alessandro, M.P.
Publishing Year	2006
Title	Anatomy Atlases: A digital Library of Anatomy Information
Subtitle	
Edition	
Publisher	http://www.anatomyatlases.org
ISBN	

Course Material	Book
Author	Intellimed
Publishing Year	2004
Title	Human Anatomy Online
Subtitle	
Edition	
Publisher	http://www.innerbody.com/htm/body.html
ISBN	

Course Material	Book
Author	Townsend, CR
Publishing Year	2003
Title	Essentials of Ecology
Subtitle	
Edition	2nd edition
Publisher	Oxford: Blackwell
ISBN	

Notes

This module allows students to gain an insight into the structure and function of the human body and how the environment impacts on health. It will explore the basic processes in the biosphere and introduce principles of ecology. It will introduce the concept of biological stressors and how they cause disease processes by an examination of a series of case studies that deal with common pathological conditions. There will also be a field trip to a sewage treatment plant, composting

facility, restored landfill site or similar venue to explore the ecological processes employed.