Liverpool John Moores University

Title:	BIOLOGY OF DISEASE 'B'
Status:	Definitive
Code:	**7001BMBMOL** (101501)
Version Start Date:	01-08-2011
Owning School/Faculty:	Pharmacy & Biomolecular Sciences
Teaching School/Faculty:	Pharmacy & Biomolecular Sciences

Team	Leader
Steven Crosby	Y
Gordon Lowe	
Khalid Rahman	
Janice Harland	
Lesley Walton	

Academic Level:	FHEQ7	**Credit Value:**	20.00	**Total Delivered Hours:**	40.00
Total Learning Hours:	200	**Private Study:**	160		

Delivery Options
Course typically offered: Semester 2

Component	Contact Hours
Lecture	24.000
Practical	11.000
Tutorial	2.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination: one 3-hour paper - students answer three essay/interpretative style questions from a choice of eight.	50.0	3.00
Practice	AS2	Practical class	20.0	
Report	AS3	Case study linked to tutorials	30.0	

Aims

To provide opportunities for:
1. Acquisition of an integrated knowledge of human pathological processes.
2. Familiarisation with various laboratory methods to diagnose and monitor disease.

Learning Outcomes

After completing the module the student should be able to:

1 Discuss the fundamental basis of specific pathological processes.
2 Critically discuss and demonstrate an ability to integrate some of the major pathologies associated with the cardiovascular, urinary and respiratory systems.
3 Justify the choice of investigative procedures used in studying selected human diseases and be able to interpret the results of such analyses.
4 Critically appraise the design of laboratory experiments, their implementation and the proper analysis/interpretation of data.

Learning Outcomes of Assessments

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

EXAM	1	2	3
PRAC	4		
PRAC	1	3	

Outline Syllabus

The major pathologies and microbiological infections associated with the urinary, respiratory, endocrine and cardiovascular systems. Examples may include: the Diabetes mellitus, cardiomyopathies, myocardial infarction, thrombosis and embolism; glomerulonephritis and tubular dysfunction; pneumonia, asthma and bronchitis.
The critical use of laboratory procedures in the diagnosis of pathologies of the cardiovascular, urinary and respiratory systems.
The integrative nature of the pathologies associated with systemic diseases such as diabetes and other endocrine disorders, atherosclerosis, AIDS, cystic fibrosis, etc.

Learning Activities

The module will run on a single teaching day in Semester 2. Most of the material will be delivered by lectures (either three or four 50-minute lectures per teaching day). Coursework will be in the form of practical classes or a case study supported by tutorials.

References

Course Material	Book
Author	Marshall, W. J and Bangert S K.
Publishing Year	2008
Title	Clinical Chemistry.
Subtitle	
Edition	6th ed
Publisher	Mosby
ISBN	9780723434559

Course Material	Book
Author	Underwood J C E.
Publishing Year	2009
Title	General and Systematic Pathology
Subtitle	
Edition	5th ed
Publisher	Churchill Livingstone
ISBN	0443068887

Course Material	Book
Author	Young B, O'Dowd G and Stewart W.
Publishing Year	2010
Title	Wheater' basic pathologys
Subtitle	
Edition	5th ed
Publisher	Churchill Linvingstone
ISBN	9780443067976

Course Material	Book
Author	Peakman M and Vergani D.
Publishing Year	2009
Title	Basic and Clinical Immunology
Subtitle	
Edition	2nd ed
Publisher	Churchill Livingstone
ISBN	9780443100826

Course Material	Book
Author	Engleberg N C.
Publishing Year	2006
Title	Schaecter's mechanisms of Microbial Disease
Subtitle	
Edition	4th ed
Publisher	Lippincott Williams and Wilkins
ISBN	0781753422

Course Material	Book

Author	Hoffbrand A V, Moss P A H, and Petit J E.
Publishing Year	2007
Title	Essential Haematology
Subtitle	
Edition	5th ed
Publisher	Blackwell Publishing
ISBN	9781405136495

Notes

This module will provide students with an understanding of the scientific basis of some clinically important diseases and the laboratory methods used to study them at the molecular, cellular, tissue and organ level.