

Liverpool John Moores University

Title: BIOMEDICAL SCIENCES FOR PARAMEDIC PRACTICE
Status: Definitive
Code: **5002PPPARA** (106953)
Version Start Date: 01-08-2014

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

Team	Leader
Colin Atherton	Y

Academic Level: FHEQ5
Credit Value: 10.00
Total Delivered Hours: 21.50
Total Learning Hours: 100
Private Study: 78

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	15.000
Seminar	4.000
Tutorial	1.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination 1.5 hours.	100.0	1.50

Aims

*To encourage students to consider the interaction between key biological systems and medical or pharmaceutical interventions.
(BPA 9.2; 9.3; 9.5)*

Learning Outcomes

After completing the module the student should be able to:

- 1 Examine the underpinning theoretical knowledge of pharmacology (3a.1; 2b.4)
- 2 Identify and explore the function of pharmacological and medical interventions (1a1;3a1)
- 3 Interpret the relationship between intervention and physiological changes in patient presentation. (HPC 3a1; 3a2)
- 4 Describe the anatomy and physiology of the Nervous System (HPC 3a1)

Learning Outcomes of Assessments

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

Written 1 2 3 4

Outline Syllabus

- *Pharmacology, pharmacokinetics, pharmacodynamics*
- *Key medical and drug interventions*
- *Patient presentation and assessment*
- *Medical technology*
- *Boundaries of practice.*
- *Patient safety*

Learning Activities

Lectures, group discussion, e-learning materials, data analysis

References

Course Material	Book
Author	Langley, C Belcher, D
Publishing Year	2009
Title	Applied Pharmaceutical Practice
Subtitle	
Edition	
Publisher	Pharmaceutical Press
ISBN	

Course Material	Book
Author	Whifen, P
Publishing Year	2007
Title	Oxford Handbook of Clinical Pharmacy
Subtitle	
Edition	
Publisher	Oxford Medical Publications

ISBN	
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Course Material	Book
Author	Adam, S
Publishing Year	2008
Title	Rapid Assessment of the Acutely Ill Patient
Subtitle	
Edition	
Publisher	Wiley Blackwell
ISBN	

Course Material	Book
Author	ASA
Publishing Year	2006
Title	UK Ambulance Service Clinical Practice Guidelines
Subtitle	
Edition	
Publisher	ASA
ISBN	

Course Material	Book
Author	Tortora G.J, Grabowski S.R.
Publishing Year	2002
Title	Principles of Anatomy and Physiology
Subtitle	
Edition	10th
Publisher	John Wiley & Sons
ISBN	

Notes

This module provides the theoretical base for students' development of skills and competencies required for paramedic practice. It focuses on physical and life sciences and explores how these relate to human health and illness. The module will cover the interaction between key systems and medical or pharmaceutical interventions.