

Liverpool John Moores University

Title: Applied Paramedic Sciences
Status: Definitive
Code: **5008PPARA** (119522)
Version Start Date: 01-08-2014

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

Team	Leader
Denise Dixon	Y

Academic Level: FHEQ5 **Credit Value:** 24.00 **Total Delivered Hours:** 61.00
Total Learning Hours: 240 **Private Study:** 179

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	46.000
Online	12.000
Tutorial	1.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Written	Exam will have 3 sections covering the learning outcomes.	100.0	2.00

Aims

To explore the aims of pharmacological interventions on the human body.

Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse the anatomy and physiology of the nervous, cardiovascular and respiratory systems. HCPC 3a1.
- 2 Identify and explore the effects of pharmacological and medical interventions. HCPC 1a1, 2b4, 3a1.
- 3 Interpret the relationship between intervention and physiological changes in patient presentation. HCPC 3a1.
- 4 Apply knowledge of anatomy, physiology and pathophysiology to a range of pre hospital situations. HCPC 2b4, 3a1.

Learning Outcomes of Assessments

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

Exam	1	2	3	4
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Outline Syllabus

Clinical sciences including:

Dynamic relationship between anatomical structure and function

Heat transfer and normal body temperature

Haemodynamics and viscosity in relation to blood flow

Anatomy, physiology & pathophysiology of key systems (cardiovascular, respiratory, nervous)

Analysis of the buffer systems

Pharmacology

Pharmacokinetics

Pharmacodynamics

Key medical and drug interventions

Fluid and electrolyte balance and imbalance

Risks associated with pharmaceutical therapy

Ethics & consent in relation to medicines management

Negligence

Learning Activities

Practical exercises

Group work

E learning activities

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 anatomy, physiology and pathophysiology including the interaction between key systems and medical or pharmaceutical interventions.

