

## Liverpool John Moores University

Title: APPLIED SCIENCES UNDERPINNING PRACTICE 1  
Status: Definitive  
Code: **4003DNCFP** (111936)  
Version Start Date: 01-08-2014

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

Team	Leader
Cheryl Grimes	Y

**Academic Level:** FHEQ4  
**Credit Value:** 10.00  
**Total Delivered Hours:** 42.00  
**Total Learning Hours:** 100  
**Private Study:** 58

### Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	20.000
Tutorial	20.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination: Short answers. 2 Hours	100.0	2.00

### Aims

*To provide an overview of the systems of the human body with an emphasis on those elements which inform skills for practice. To develop an overview of psychosocial concepts in relation to health and illness. A basic introduction to the principles of pathophysiology, pharmacology and microbiology will be included.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Describe the basic structure and functions of the human body in maintaining homeostasis.
- 2 Demonstrate knowledge of psychological concepts in relation to normal development and health.
- 3 Discuss the biological basis of behaviour including motivation and stress responses.
- 4 Describe the basic principles of microbiology and infection control.
- 5 Define some basic terms and concepts relating to pathophysiology.

## Learning Outcomes of Assessments

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

unseen exam                      1    2    3    4    5

## Outline Syllabus

*Terms and concepts relating to human structure and function. Organisation of the body. Basic chemistry. From molecules to cells to homeostasis. Nervous and endocrine systems (including senses) Cardio-vascular and Respiratory systems. Blood. Digestive system. Musculoskeletal and Urinary systems. Skin and Thermoregulation. Growth, development and ageing. Psychological models of behaviour. Growth and development of Self, Beliefs, Attitudes and Motivation. Stress and G.A.S. Psychological Perspectives on Health. Principles of Microbiology and Infection Control. Concepts and terms in pharmacology and pathophysiology. Inflammation and body defenses.*

## Learning Activities

Lectures; Tutorials; Group work; Presentations; Quiz. There will be a number of diagnostic and formative problem solving exercises using Blackboard to assess students learning in relation to outcomes 4 & 5. The other outcomes are assessed summatively. Private study.

## References

<b>Course Material</b>	Book
<b>Author</b>	Gould, D. Brooker, C.
<b>Publishing Year</b>	2000
<b>Title</b>	Applied Microbiology For Nurses.
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	MacMillan Press Ltd
<b>ISBN</b>	0-333-71425-3

<b>Course Material</b>	Book
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<b>Author</b>	Green, R. Harris, N.
<b>Publishing Year</b>	2000
<b>Title</b>	Pathology and Therapeutics for Pharmacist.
<b>Subtitle</b>	A basis for clinical pharmacy practice.
<b>Edition</b>	2nd
<b>Publisher</b>	Pharmaceutical Press
<b>ISBN</b>	0-85369-370-0

<b>Course Material</b>	Book
<b>Author</b>	Cardwell, M. Clarke, L. Meldrum, C
<b>Publishing Year</b>	2003
<b>Title</b>	Psychology for 'A' level.
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Harper Collins. London
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Hayes, N.
<b>Publishing Year</b>	2002
<b>Title</b>	Psychology in Perspective.
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Palgrave. London
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Hinchliff, S. Montague, S. Watson, R.
<b>Publishing Year</b>	1998
<b>Title</b>	Physiology For Nursing Practice.
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Bailliere Tindall
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Martini, F.
<b>Publishing Year</b>	2004
<b>Title</b>	Fundamentals of Anatomy and Physiology.
<b>Subtitle</b>	
<b>Edition</b>	6th
<b>Publisher</b>	Benjamin Cummings.
<b>ISBN</b>	0-13-120346-0

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**Notes**

This module will provide the students with an overview of the biopsychosocial sciences to underpin practice. Infection control elements reflect the Government's current drive to cut hospital infections.  
Module outcomes 4 and 5 are assessed formatively.