

## Liverpool John Moores University

Title: APPLIED SCIENCES UNDERPINNING PRACTICE 1  
Status: Definitive  
Code: **4503BNCNUR** (107592)  
Version Start Date: 01-08-2014

Owning School/Faculty: Nursing and Allied Health  
Teaching School/Faculty: KPJ International College of Nursing and Health Sc

Team	Leader
Sean Mackay	

**Academic Level:** FHEQ4  
**Credit Value:** 10.00  
**Total Delivered Hours:** 38.00  
**Total Learning Hours:** 100  
**Private Study:** 62

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	24.000
Tutorial	12.000

**Grading Basis:** 40 %

### Assessment Details

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

Competency	Practice

### Aims

*To provide an overview of the systems of the human body with an emphasis on those elements which inform skills for practice. 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 Discuss the biological basis of behaviour including motivation and stress responses.
- 3 Describe the basic principles of microbiology and infection control.
- 4 Define basic terms and concepts relating to pathophysiology.

### Learning Outcomes of Assessments

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

EXAM	1	2	3
Practice			4

### 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. Growth and development across the life-span. Principles of Microbiology, parasitology and Infection Control. Concepts and terms in pharmacology and pathophysiology. Inflammation and body defences.*

### Learning Activities

Lectures; Tutorials; Group work; Presentations; Formative Quiz. There will be a number of diagnostic and formative problem solving exercises using Blackboard to assess students learning in relation to outcomes 4. The other outcomes are assessed summatively. Private study. Development of English Language skills: listening, reading, writing and speaking

### 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
<b>ISBN</b>	

<b>Course Material</b>	Book
<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 Ed
<b>Publisher</b>	Pharmaceutical Press
<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 Ed
<b>Publisher</b>	Benjamin Cummings.
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Waugh, A and Grant, A (eds)
<b>Publishing Year</b>	2001
<b>Title</b>	Ross and Wilson Anatomy and Physiology in Health and Illness.
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Churchill Livingstone
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Whaley L and Wong D
<b>Publishing Year</b>	2003
<b>Title</b>	Nursing Care of Infants and Children
<b>Subtitle</b>	
<b>Edition</b>	7th Ed
<b>Publisher</b>	Mosby
<b>ISBN</b>	

## Notes

This module will provide the students with an overview of the biological sciences to underpin practice.

Learning Outcome 4 is assessed formatively.

The module leader in JB campus is SAEZAHNOR HANAFIAH