

Liverpool John Moores University

Title: Understanding Nursing Sciences
Status: Definitive
Code: **4003NBSC** (118222)
Version Start Date: 01-08-2019

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

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Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 42

Total Learning Hours: 200 **Private Study:** 158

Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	20
Online	15
Seminar	5

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	exam	Short answer examination	50	2
Essay	essay	Patient focused case study Case Study – 2500 words Patient focused Case Study – 2500 words Patient focused case study 2500 words	50	

Aims

To provide students with 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, well-being and illness.

Learning Outcomes

After completing the module the student should be able to:

- 1 Describe the basic structure of all major body systems and their functions in maintaining homeostasis
- 2 Outline the basic processes underlying the changes in structure and function of the body across the lifecycle
- 3 Demonstrate knowledge of biopsychosocial factors influencing development, health and illness
- 4 Describe the basic principles of microbiology and infection control
- 5 Describe the pathophysiological mechanisms underlying a range of common disorders
- 6 Discuss the basic principles of pharmacology in relation to the mechanism of action of drugs used to treat a range of common disorders

Learning Outcomes of Assessments

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

Short answer questions	1	2	4	5	6
Case study	3	5	6		

Outline Syllabus

Basic structure of all major body systems and their functions in maintaining homeostasis:

Cardio-vascular, Respiratory, Neurological, Urinary systems, Fluid and Electrolyte Balance, Acute Renal Failure, Digestive System, Endocrine System, Diabetes Mellitus (Type 1 and 2), Reproductive System, Introduction to Blood, Introduction to Skin and Temperature Regulation and Musculoskeletal System

Basic processes underlying the changes in structure and function of the body across the lifecycle:

Introduction to common illnesses from childhood to end of end of life.

Terms and concepts relating to human structure and function. Organisation of the Body

Basic chemistry - from molecules to cells to homeostasis

*Inflammation and body defences.
Introduction to Pain*

*Biopsychosocial factors influencing development, health and illness:
Introduction to common mental health conditions.
Psychological models of behaviour. Developmental psychology, abnormal psychology
Theories of Mental distress; Classification of Mental Disorder; Descriptive Psychopathology
Social models of health
Developmental Anatomy and Physiology
Pre-Natal influences on health
Growth, development and ageing
Sexual Health*

Basic principles of microbiology and infection control

*Pathophysiological mechanisms underlying a range of common Disorders:
Signs and symptoms
Investigating and diagnosing illness*

*Basic principles of pharmacology in relation to the mechanism of action of drugs used to treat a range of common disorders:
Concepts and terms in pharmacology and pathophysiology; Causes and effects of illness
Basic Pharmacology and psychopharmacology
Introduction to side effects of Medication, polypharmacy, Iatrogenesis
Introduction to substance abuse; Pharmacology of substance abuse and altered consciousness; effects of psychoactive substances*

Learning Activities

The module is primarily lecture-based but students will also engage in a range of other activities including small group tutorials and presentations. There will also be a number of diagnostic and formative problem solving exercises and quizzes using Blackboard.

Notes

This module provides an overview of the normal function of all body systems and their role in the maintenance of health. It also introduces the concepts of altered function and the biopsychosocial factors that can lead to ill health.