Module Name: Scientific Basis for Nursing
Module Code: NU1S04
ECTS: 5
No. of Hours: Lectures 16, Tutorials 10, Web 10
Term: Michaelmas and Hilary
Assessment Date: Weeks 16 and 36-38
Module Leader: Dr Aileen Lynch
Lecturers: Dr Paul Costello, Dr Aileen Lynch

Aims

This module is designed to introduce the basic principles of science underpinning the understanding of the human body, and introduce basic anatomy and physiology of the systems of the body so as to provide a basis for learning on nursing modules.

Learning Outcomes

Following completion of this module the student should be able to:

- Outline and explain the basic scientific knowledge underpinning the understanding of normal body function (Unit 1).
- To identify, list and outline the basic structures and functions of the major systems of the body (Unit 2).

Indicative Content

Unit 1: Scientific basis for nursing (16 lectures)
- Introduction to applied physics (2)
- Introduction to applied chemistry (2)
- Structure and function of the body at a cellular level (1)
- Structure and function of the body at a histological level (2)
- Movement and support of the body: anatomy (2)
- Introduction to genetics (2)
- Maintenance of the body in health: microbiology (3)
- Maintenance of the body in health: nutrition (2)

Unit 2: Introduction to the Main Systems of the Body (Directed learning on WebCT)
- Cardiovascular system
- Respiratory system
- Nervous system
- Gastrointestinal system
- Renal system
- Reproductive system
- Haematological system
- Endocrine system
• Immune system
• Integumentary system

**Teaching and Learning Activities**

• Lectures 16
• Tutorials 10
• Directed Learning 10

**Student Effort Hours**

• 100

**Assessment**

**Mode of Assessment**  Multiple choice questions (MCQ)

**Assessment Details**  Two 1 hour examinations – 30 MCQ per exam

- Week 16  Exam – 30 MCQ (Unit 1)  50% of Module
- Week 36-38  Exam – 30 MCQ (Unit 2)  50% of Module

Note: there is no negative marking on MCQ exams

**Reading List**

**Essential Reading**


**Recommended Reading**