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Title: APPLIED SCIENCES UNDERPINNING PRACTICE 2
 Status: Definitive
 Code: **4004DNCFP** (111937)
 Version Start Date: 01-08-2014

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

| Team | Leader |
|--------------------|--------|
| Harry Gopaul | Y |
| Elizabeth McCarthy | |

Academic Level: FHEQ4 **Credit Value:** 10.00 **Total Delivered Hours:** 50.00

Total Learning Hours: 100 **Private Study:** 50

Delivery Options

Course typically offered: Runs Twice - S1 & S2

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 30.000 |
| Online | 20.000 |

Grading Basis: 40 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|----------|-------------------|-----------------------------------|---------------|---------------|
| Essay | AS1 | 2,500 word, patient-focused study | 100.0 | |

Aims

To further develop knowledge of human structure and function and of a range of common diseases together with their management.

To develop knowledge of the relevance of selected psychosocial theories to individual health / illness behaviours.

Learning Outcomes

After completing the module the student should be able to:

- 1 Describe the patho-physiological mechanisms involved in the acute manifestations of a range of common disorders affecting the nervous, endocrine, cardio-vascular and respiratory systems.
- 2 Describe the relevant investigations and therapeutic interventions required for a range of common disorders affecting the nervous, endocrine, cardiovascular and respiratory systems
- 3 Discuss with reference to contemporary psychosocial theories a range of biopsychosocial factors and their impact on disease development and outcome.
- 4 Describe the basic principles of pharmacology in relation to the mechanism of action of a variety of drugs used to treat a range of common disorders affecting the nervous, endocrine, cardiovascular and respiratory systems.

Learning Outcomes of Assessments

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

| | | | | |
|-------|---|---|---|---|
| essay | 1 | 2 | 3 | 4 |
|-------|---|---|---|---|

Outline Syllabus

Causes and effects of illness. Signs and symptoms. Investigating and diagnosing illness. Review anatomy and physiology of the Cardiovascular and Respiratory systems. Acute disorders of Cardio-vascular and Respiratory systems: MI, LVF (pulmonary oedema). Acute respiratory infections. Asthma (acute episode) Pharmacological management of these disorders. Anatomy and physiology of the Neuro-endocrine systems, Type 1 and type 2 Diabetes Mellitus. Stroke. (Brain attack). Introduction to pain (Acute) Abnormal psychology, theories of causation and effect of mental illness, personality and stress, type A behaviour pattern, effects of illness and hospitalisation, self concept and body image, psychological responses in relation to selected disorders. Pharmacology (substance abuse) and altered consciousness - effects of psychoactive substances. Basic principles of pharmacology. Drug sources. Pharmacokinetics. Pharmacodynamics. Side effects.

Learning Activities

Lectures; Group work; Diagnostic and formative testing using Blackboard based learning activities., including assessment of knowledge of pharmacology outcome five is tested formatively in this way.

References

| | |
|-----------------|------|
| Course Material | Book |
|-----------------|------|

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|------------------------|---------------------------------------|
| Author | Barker, P |
| Publishing Year | 2003 |
| Title | Psychiatric and Mental Health Nursing |
| Subtitle | The Craft of Caring |
| Edition | |
| Publisher | Arnold |
| ISBN | |

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|------------------------|---------------------------------|
| Course Material | Book |
| Author | Gould, D Brooker, C |
| Publishing Year | 2000 |
| Title | Applied Microbiology for Nurses |
| Subtitle | |
| Edition | |
| Publisher | Macmillan Press |
| ISBN | |

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|------------------------|--|
| Course Material | Book |
| Author | Green, R Harris, N |
| Publishing Year | 2000 |
| Title | Pathology and Therapeutics for Pharmacists |
| Subtitle | |
| Edition | 2nd |
| Publisher | Pharmaceutical Press |
| ISBN | |

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|------------------------|-----------------------------------|
| Course Material | Book |
| Author | Gross, R |
| Publishing Year | 2001 |
| Title | Psychology |
| Subtitle | The Science of Mind and Behaviour |
| Edition | 4th |
| Publisher | Hodder and Stoughton |
| ISBN | |

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|------------------------|----------------------------|
| Course Material | Book |
| Author | Messer, D Jones, F (eds) |
| Publishing Year | 1999 |
| Title | Psychology and Social Care |
| Subtitle | |
| Edition | |
| Publisher | Jessica Kingsley |
| ISBN | |

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|------------------------|-----------|
| Course Material | Book |
| Author | Porth, CM |
| Publishing Year | 2002 |

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|------------------|-----------------------------------|
| Title | Pathophysiology |
| Subtitle | Concepts of Altered Health States |
| Edition | 6th |
| Publisher | Lippincott |
| ISBN | |

Notes

The module aims to give students the underpinning knowledge identified in the QAA Benchmark statements for nursing, to enable them to effectively care for a range of important conditions identified from:

National epidemiological data

National Service Frameworks

NICE guidelines

Outcome five is tested formatively