

MODULE SPECIFICATION PROFORMA

Module Title:	Life Sciences	Level:	4	Credit Value:	20
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Module code:	NUR407	Is this a new module?	No	Code of module being replaced:	
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Cost Centre:	GANG	JACS3 code:	B700
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Trimester(s) in which to be offered:	2	With effect from:	September 17
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School:	Social & Life Sciences	Module Leader:	Cathy Hewins
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Scheduled learning and teaching hours	70 hrs
Guided independent study	130 hrs
Placement	See Programme Specification hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered	Core	Option
Bachelor of Nursing (Honours) with Registered Nurse (Adult)	✓	<input type="checkbox"/>

Pre-requisites
None

Office use only

Initial approval December 16

APSC approval of modification *Enter date of approval*

Have any derogations received SQC approval?

Version 1

Yes ✓ No

Module Aims

To establish the students' understanding of normal physiological functioning of body systems in health and the principles of pharmacology.

Intended Learning Outcomes

Key skills for employability

- KS1 Written, oral and media communication skills
- KS2 Leadership, team working and networking skills
- KS3 Opportunity, creativity and problem solving skills
- KS4 Information technology skills and digital literacy
- KS5 Information management skills
- KS6 Research skills
- KS7 Intercultural and sustainability skills
- KS8 Career management skills
- KS9 Learning to learn (managing personal and professional development, self-management)
- KS10 Numeracy

At the end of this module, students will be able to

Key Skills

1	Describe normal anatomy and physiology in body systems. (NMC NPDM, 2, 6, A1.1, A7.2)	KS6	
		KS9	
2	Explain relevant theoretical concepts of body systems. (NMC NPDM 6, A1.1, A4.1)	KS3	
		KS9	
3	Explain how the body maintains homeostasis. (NMC NPDM, 4, 6, A1.1, A3.1)	KS3	
		KS9	
4	Describe pharmacology and pharmacokinetics and its use in nursing. (NMC NPDM A4.1, MH6.1)	KS3	
		KS9	

Transferable/key skills and other attributes

Theory-practice application
Development of self-directed learning
Development of IT literacy

Derogations

- Two attempts will be allowed at this module with a possible third attempt if this has not been used on another module in this academic year.
- There are no compensatory passes, and all elements have to be passed.
- A second attempt if needed, will be allowed within the academic year.
- Feedback on assessed work will be provided within four weeks of submission
- Any work submitted, however competent from an academic viewpoint, which omits or includes information which would indicate unsafe practice by the student or in any way breaches confidentiality will be deemed a 'refer'.

Assessment:

Examination – Short answer questions and multiple choice questions

Clinical Practice Outcomes in the '*Ongoing record of Achievement of practice competence*' are formatively assessed throughout the academic year, and summatively assessed in the Personal and Professional Development module at the end of each year as Pass / Fail.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	1,2,3 & 4	Examination	100%	2 hours	

Learning and Teaching Strategies:

A variety of learning and teaching strategies will be used including simulation. Interactive lectures will be used to provide core knowledge and directed study will be given to support learning. Wiley Plus interactive learning zone will be used to support students' directed learning.

Syllabus outline:

The content will include the following:

Basic Chemistry and the Cell / Genetics / Embryology / The Blood and Fluid Balance / The Integumentary System/ The Skeletal System / The Muscular System / The Nervous System / The Special Senses / The Endocrine System / Glucose monitoring / The Cardiovascular System / Vital signs / The Lymphatic System and Immunity / The Respiratory System / Oxygen therapy / The Digestive System / The Urinary System / The Reproductive Systems / Pharmacology / Bacteriology / Virology and Parasitology / Biochemistry / Pathology / Injection technique / Aseptic technique (including ANTT) *Fundamentals of care (Ensuring comfort, alleviating pain).*

The above syllabus takes account of the following:

E U Directive 2005/36/EC

Nursing principles of Child care and Paediatrics/ Nursing principles of Care of the old & geriatrics / Anatomy and Physiology/ Bacteriology, virology and parasitology/ Biophysics, biochemistry and radiology/ Dietetics/ Hygiene/ Pharmacology

NMC Standard

5.6.1 Life Sciences (including anatomy and physiology)/Pharmacology and medicines management/ Causes of common health conditions and the interaction between physical and mental health and illness/ Essential first aid and incident management.

5.6.2 Eating, drinking, nutrition and hydration/ Comfort and sleep/ Continence promotion and bowel and bladder care/ Skin health and wound management/ Infection prevention and control/ Clinical observation, assessment, critical thinking and decision making/ Symptom management, such as anxiety, anger, thirst, pain and breathlessness/ Medicines management

QAA Standards

A2, B3, C1, C2

1000 Lives +

Systems approach to anatomy and physiology

Bibliography:

Essential reading

Barber, P. & Robertson, D. (2015), *Essentials of Pharmacology*. (3rd ed.) Maidenhead: Open University Press, McGraw-Hill Education.

Bartholomew, M.N. (2014), *Fundamentals of anatomy & physiology*. (10th ed.) London: Pearson.

Dougherty, L. & Lister, S. (2015), *The Royal Marsden Manual of Clinical Nursing Procedures*. (9th ed.) Oxford: Wiley Blackwell.

Jenkins, G.W., Kemnitz, C.P., & Tortora, G.J. (2016), *Anatomy and Physiology: from science to life*. (4th ed.) Hoboken: John Wiley and Sons.

Rogers, K.M.A. & Scott, W. N. (2011), *Nurses! Test Yourself in Anatomy and Physiology*. Maidenhead: Open University Press, McGraw-Hill Education.

Other indicative reading

Bullock, S. & Manias, E. (2014), *Fundamentals of pharmacology*. (7th ed.) Cambridge: Pearson.