



The University of Southern Queensland

## Course specification

### Description: Medications: Concepts and Calculations

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
NUR	1090	44377	2, 2005	ONC	0.50	Toowoomba

<b>Academic group:</b>	FOSCI
<b>Academic org:</b>	FOS004
<b>Student contribution band:</b>	National Priority Nursing
<b>ASCED code:</b>	060399

### STAFFING

Examiner: Ron Atkinson  
Moderator: Andrew Hoey

### REQUISITES

Pre-requisite: Students must be enrolled in Program: BNUR

### RATIONALE

It is part of a nurse's responsibility to ensure that the correct dose of therapeutic agent is given to the correct patient/client at all times. This course will assist the nurse in this task.

### SYNOPSIS

This course is designed to ensure that nursing students understand the basis of how drugs are administered, absorbed, metabolized and excreted. This information is then used so that nursing students become familiar with, and can use, with a high level of accuracy, the mathematical processes involved in medication calculations. The study of these processes will be complemented by drug administration studies in other courses.

### OBJECTIVES

On completion of this course students will be able to:

1. describe the routes of drug administration and how the body deals with drugs; and apply mathematical processes to perform medication calculations with a high level of accuracy.

### TOPICS

	Description	Weighting (%)
1.	Nomenclature	5.00
2.	Structure action and dose response relationships	5.00

3.	Routes of drug administration, distribution, metabolism and excretion	10.00
4.	Half lives and dosing intervals	5.00
5.	Medication Calculations - interpreting medication requests; solids (including posdered drugs for reconstitution); liquids (including injections); IVT calculations (including rates, times, infusions)	75.00

### **TEXT and MATERIALS required to be PURCHASED or ACCESSED**

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

Bryant B, Knights K and Salerno E 2003, *Pharmacology for Health Professionals*, Mosby, Sydney.

Instructional Guide 2004, *NUR1090 - Medications: Concepts and Calculations*, USQ Publication, Toowoomba.

### **REFERENCE MATERIALS**

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

Galbraith, A, Bullock, S & Manias, E 2003, *Fundamentals of Pharmacology*, 4th edn, Pearson Education, Frenchs Forest.

Gatford, JD & Anderson, RE 1998, *Nursing Calculations*, 5th edn, Churchill Livingstone, Edinburgh.

### **STUDENT WORKLOAD REQUIREMENTS**

ACTIVITY	HOURS
Examinations	2.00
Laboratory or Practical Classes	12.00
Lectures	6.00
Private Study	68.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg(%)	Due date
0.5HR CLOSED TEST - CONCEPTS	25.00	25.00	END S2 (see note 1)
1HR RESTRICTED TEST - CALC	75.00	75.00	END S2 (see note 2)

### NOTES

1. The date stated above indicates the week in which this test will be held. Students will be advised of the exact date.
2. The date stated above indicates the week in which this test will be held. Students will be advised of the exact date.

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:  
It is the students' responsibility to attend and participate appropriately in all activities (such as lectures, tutorials, laboratories and practical work) scheduled for them, and to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
- 2 Requirements for students to complete each assessment item satisfactorily:  
To complete each of the assessment items satisfactorily students must obtain 100% for Calculations and at least 50% of the marks available for Concepts.
- 3 Penalties for late submission of required work:  
N/A
- 4 Requirements for student to be awarded a passing grade in the course:  
To be certain of obtaining a passing grade in this course, students must obtain 100% in the Calculations Test and obtain at least 50% of the marks available in the Concepts Test.
- 5 Method used to combine assessment results to attain final grade:  
As P is the only passing grade available for this course, all students who are qualified for a passing grade will be given a grade of P. Other students will be given either a Failing grade or an Incomplete grade.
- 6 Examination information:  
In a Restricted Examination, candidates are allowed access to specific materials during the examination. The only materials that candidates may use in the restricted examination for this course are: writing materials (non-electronic and free from material which could give the student an unfair advantage in the examination) and calculators which cannot hold textual information (students must indicate on their examination paper the make and model of any calculator(s) they use during the examination).
- 7 Examination period when Deferred/Supplementary examinations will be held:  
Any Deferred or Supplementary examinations for this course will be held during the next examination period.
- 8 University Regulations:  
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL

<http://www.usq.edu.au/corporateservices/calendar/part5.htm> or in the current USQ Handbook.