



1. General Course Information

1.1 Course Details

Course Code:	1807NRS
Course Name:	Safe Administration of Medications
Trimester:	Health Care Trimester 2, 2021
Program:	Diploma of Health Care
Credit Points:	10
Course Coordinator:	Cristine Purvis
Document modified:	22 April 2021

Course Description

Medication administration is an important nursing skill, completed in collaboration with the client, the medical practitioner and the pharmacist, to ensure positive client health outcomes. Medication administration appears to be a simple task but it is a complex, multi-faceted activity. If the administration of medications is incorrect, it may result in harm to the patient. This course aims to develop knowledge in pharmacology, including pharmacotherapeutics, pharmacokinetics and pharmacodynamics, to ensure the quality use of medicines. To safely administer medications, the student will develop numeracy skills to correctly perform medication calculations as well as applying a systems approach to recognise factors that are likely to produce errors in medication administration and strategies to minimise or avoid these errors.

Assumed Knowledge

There is no assumed knowledge for this course

1.2 Teaching Team

Your lecturer/tutor can be contacted via the email system on the portal.

Name	Email
Cristine Purvis (lecturer/tutor)	Cristine.purvis@staff.griffithcollege.edu.au

1.3 Staff Consultation

Your lecturer/tutor is available each week for consultation outside of normal class times. Times that your lecturer/tutor will be available for consultation will be found on the Moodle Course Site.

1.4 Timetable

Your timetable is available on the Griffith College Portal at Class Timetable in Student and Services.

1.5 Technical Specifications

All students must have access to a computer or suitable mobile device.

2. Aims, Outcomes & Generic Skills

2.1 Course Aims

This course aims to develop foundational pharmacology knowledge, with an emphasis on the indications of medications, pharmacokinetics and pharmacodynamics, and safe administration of medications using a systems approach. Students will develop numeracy skills to correctly perform medication calculations to safely administer medications. They will be able to apply pharmacology and medication administration knowledge and implement safe medication administration strategies, in future clinical practice.



2.2 Learning Outcomes

After successfully completing this course you should be able to:

1. Apply numeracy skills to demonstrate proficiency in medication calculations for safe administration of medications
2. Identify and describe contributing factors to medication errors (and near-miss incidents), associated with prescribing, dispensing, administering and monitoring medications and identify strategies which may prevent or reduce medication errors from occurring
3. Explain the principles of pharmacokinetics and pharmacodynamics
4. Discuss the indications, contraindications and adverse effects of medicines to ensure the quality use of medications for clients









2.3 Generic Skills and Capabilities

For further details on the Generic Skills please refer to the [Graduate Generic Skills and Capabilities policy](#).

Griffith College aims to develop graduates who have an open and critical approach to learning and a capacity for lifelong learning. Through engagement in their studies, students are provided with opportunities to begin the development of these and other generic skills.

Studies in this course will give you opportunities to begin to develop the following skills:

Generic Skills and Capabilities		Taught	Practised	Assessed
Acquisition of discipline knowledge and skills with critical judgement		✓	✓	✓
Communication and collaboration		✓	✓	✓
Self-directed and active learning		✓	✓	
Creative and future thinking		✓	✓	✓
Social responsibility and ethical awareness		✓	✓	✓
Cultural competence and awareness in a culturally diverse environment		✓	✓	✓



3. Learning Resources

3.1 Required Learning Resources

Bullock, S., & Manias, E. (2017). *Fundamentals of pharmacology* (8th ed.). Pearson Australian.

Brotto, V., & Rafferty, K. (2019). *Clinical dosage calculations for Australia and New Zealand*. Cengage.

3.2 Recommended Learning Resources

Tiziani, A. (2017). *Harvard's nursing guide to drugs*. (10th ed.). Elsevier.

Broyles, R., Reiss, B., Evans, M., McKenzie, G., Pleunik, S., & Page, R. (2020). *Pharmacology in nursing*. (3rd ed.). Cengage.

3.3 College Support Services and Learning Resources

The College provides many facilities and support services to assist students in their studies. Links to information about College support resources that are available to students are included below for easy reference.

[Digital Library](#) – Databases to which Griffith College students have access to through the Griffith Library Databases.

MyStudy – there is a dedicated website for this course via MyStudy on the Griffith College Portal.

Academic Integrity - Griffith College is committed to ensuring academic integrity is understood and maintained by all staff and students. All students learn about academic integrity through engagement with the weighted Epigeum modules within the suite of Academic and Professional Studies courses.

Services and Support provides a range of services to support students throughout their studies including academic advice and assignment help from Student Learning Advisors, and personal and welfare support from Student Counsellors.

[Jobs and Employment](#) in the Student Hub can assist students with career direction, resume and interview preparation, job search tips, and more.

[IT Support](#) provides details of accessing support, information on s numbers and internet access and computer lab rules.

3.4 Other Information about your Learning

Attendance

You are expected to actively engage in all learning experiences and learning activities which underpin the learning content in this course. You are expected to engage with the learning content and learning activities outside of timetabled class times. This requires you to be an active agent of your learning. You are expected to bring all necessary learning resources to class such as the required textbook and /or Workbook. In addition, you are encouraged to BYOD (bring your own device) to class such as a laptop or tablet. This is not a requirement as computer lab facilities are available on campus, however, the use of such devices in the classroom is encouraged with appropriate and considerate use principles being a priority.

Preparation and Participation in Learning

In order to enhance your learning, you need to prepare before participating in the learning experiences. Absorb the learning content and complete the learning activities that are provided online before you attend the scheduled learning experiences. Make sure you complete the learning activities set each week, they are designed to support your learning. Active participation in your learning will enhance your success. Ask questions when something is unclear or when you want to bring some issue to your lecturer or tutor's attention; respond to questions to test your knowledge and engage in discussion to help yourself and others learn.

Consultation Sessions

Teachers offer extra time each week to assist students outside the classroom. This is known as 'consultation time.' You may seek assistance from your teacher on email or in person according to how the teacher has explained this to the class. Attendance during consultation time is optional but you are encouraged to use this extra help to improve your learning outcomes.

Course Learning Materials

Learning materials are made available to you in MyStudy on the Griffith College Portal. The learning materials are arranged in Modules. In each Module you will find Learning Content, Learning Experiences and Learning Activities. **Learning Content** will be engaged with prior to the scheduled **Learning Experience (your weekly class)**. This will ensure you are prepared for the scheduled Learning Experience by being aware of the content to be covered and therefore will be able to actively participate in the session. **Learning Activities** are accessed after the scheduled session for purposes of review, consolidation of learning, and preparation for the Evidence of Learning tasks (assessment) in the course.

In addition, **Anytime Anywhere** learning material is provided in the course. This learning material provides support, interactive tools and directions for students who occasionally cannot attend the weekly scheduled Learning Experience (either in person or on Zoom) perhaps due to illness or other commitments. The Anytime Anywhere learning material should also be used in conjunction with Learning Content and Learning Activities resources.

Self-Directed Learning

You will be expected to learn independently. This means you must organise and engage with the course learning content even when you are not specifically asked to do so by your lecturer or tutor. The weekly guide will be helpful to organise your learning. This involves revising the weekly course learning material and completing the learning activities. It also means you will need to find additional information to evidence your learning (assessment) beyond that given to you, and to construct your own response to a question or topic. All of this requires careful planning of your time. Expect to spend, on average, at least 10 hours per week including class time for each of your courses.

Program Progression

You are reminded that satisfactory Program Progression requires that attendance in classes is maintained at equal to or greater than 80%, and that GPA is maintained at equal to or greater than 3.5 [please see Griffith College Policy Library - [Program Progression Policy](#) - for more information].






Teacher and Course Evaluation

Your feedback is respected and valued by your lecturers and tutors. You are encouraged to provide your thoughts on the course and teaching, both positive and critical, directly to your lecturer and tutor or by completing course and lecturer evaluations via Griffith College's evaluation tool whenever these are available.



4. Learning Content, Learning Activities and Learning Experiences

4.1 Modules for Learning and Weekly Learning Content, Learning Activities and Learning Experience

	Learning Content 	Learning experiences 	Learning activities 	Evidence of learning 	Learning outcome 
Module 1: Fundamentals of Safe Medication Administration					
1	Viewing of mini-lectures Introduction to course content and expectations Brief history of Pharmacology Regulation of Drugs in Australia Role & Responsibilities of medication administration Formulations & preparations of drugs Scheduling of medications	Lectorials Integrating group and individual activities. Introduction to medication calculation & mathematical concepts Revision of the metric system Medication drug calculations – Tablet & liquid form	Review learning content & any additional resources	Medication Calculation Examination - completed in Week 5	1, 2

		Common used abbreviations in Medication Administration			
2	<p>Viewing of mini-lectures</p> <p>Applying clinical decision making to medication administration</p> <p>Safety & Medication errors</p> <p>Medication Management</p> <p>Introduction to Pharmacology & terminology</p> <p>Pharmacology Concepts: Pharmacodynamics & Pharmacokinetics</p>	<p>Lectorials Integrating group and individual activities</p> <p>Medication drug calculation – Paediatrics</p> <p>Practice drug calculation – Tablet & Liquid form</p> <p>Analysis of safety issues in Medication Administration</p> <p>How do drug work?</p>	<p>Review learning content & any additional resources</p> <p>Rhetorical questions prior to lectorial as advised</p>	<p>Medication Calculation Examination - completed in Week 5</p> <p>Learning Activities Question Bank Week 7</p>	1, 2, 3

Module 2: Fundamentals of Pharmacology					
3	<p>Viewing of mini-lectures</p> <p>Overivew of the Nervous System</p> <p>Adrenergic Pharmacology</p> <p>Physiological effects of the Adrenergic Agonists & Antagonists</p> <p>Cholinergic Pharmacology</p>	<p>Lectorials Integrating group and individual activities</p> <p>Practrice drug calculation – Paediatrics</p> <p>NIMC – review of potential errors</p> <p>Review Neurotransmitter content – case studies</p>	<p>Review learning content & any additional resources</p> <p>Rhetorical questions prior to lectorial as advised</p>	<p>EOT Exam in examination week</p> <p>Medication Calculation Examination - completed in Week 5</p>	1, 2, 3
4	<p>Viewing of mini-lectures</p> <p>Chemical Mediators - Histamines</p> <p>Prostaglandins & Serotonins</p> <p>Steroidal Drugs</p> <p>Adult Learning Principles</p>	<p>Lectorials Integrating group and individual activities</p> <p>Introduction to Medication Monograph</p> <p>Patient Education & Adult Learning Principles</p> <p>Principles of Intravenous Fluids</p> <p>Topical Medication Applications</p> <p>Review Chemical Mediators – case studies</p> <p>Medication Calculation Practice Exam</p>	<p>Review learning content & any additional resources</p> <p>Rhetorical questions prior to lectorial as advised</p>	<p>EOT Exam in examination week</p> <p>Medication Calculation Examination - completed in Week 5</p>	1, 2, 3
5	<p>Viewing of mini-lectures</p> <p>Overview of Pain</p> <p>Analgesics and their uses</p> <p>Overview of the Gastrointestinal Tract (GIT)</p> <p>Common medications used for GIT disorders</p> <ul style="list-style-type: none"> • Lower GIT • Upper GIT 	<p>Lectorials Integrating group and individual activities</p> <p>Medication Monograph</p> <p>Case Study – Analgesics & GIT medications</p> <p>Medication Calculation Examination</p>	<p>Review learning content & any additional resources</p> <p>Rhetorical questions prior to lectorial as advised</p>	<p>EOT Exam in examination week</p>	3

6	Viewing of mini-lectures Overivew of the Cardiovascular System Medication management for the Cardiovascular System Over view of diuretics	Lectorials Integrating group and individual activities Medication Monograph Case study – Cardiovascular Medications	Review learning content & any additional resources Rhetorical questions prior to lectorial as advised	EOT Exam in examination week	3
7	Viewing of mini-lectures Overview of the Respiratory System Disorders of the Respiratory System & their management Overivew of the Neurological System Medication management of the Neuological System	Lectorials Integrating group and individual activities Medication Monograph Case study – Respiratory Medications	Review learning content & any addit ional resources Rhetorical questions prior to lectorial as advised	EOT Exam in examination week	3
8	Viewing of mini-lectures Overview of the Endocrine System Medication management of the Endocrine System	Lectorials Integrating group and individual activities Medication Monograph Case study – Endocrine Medications	Review learning content & any additional resources Rhetorical questions prior to lectorial as advised	EOT Exam in examination week	3
9	Viewing of mini-lectures Overview of the Immune System Review of Micro-organisms Antibiotics	Lectorials Integrating group and individual activities Medication Monograph Case study – Antibiotics Review of prescribing guidelines	Review learning content & any additional resources Rhetorical questions prior to lectorial as advised	EOT Exam in examination week	3
10	Revision of course content	Lectorials Integrating group and individual activities Practice Exam Exam Revision	Review learning content & any additional resources	EOT Exam in examination week	1, 2, 3



5. Evidence of Learning (Assessment Plan)

5.1 Evidence of Learning Summary

	 Evidence of learning	 Weighting	 Learning outcome	 Due Date
1	Medication Calculations Examination	10%	1	Week 5
2	Learning Activities Question Bank	40%	2 & 3	Week 7
3	End of Trimester Exam – selected & constructed responses	50%	2,3 & 4	Final examination period

5.2 Evidence of Learning Task Detail

1. Medication Calculation Examination:

This medication calculation examination is to enable students to demonstrate their mastery of drug calculations. You are required to achieve 100%.

Details: This 60 minute online Medication Calculation Examination comprises of multiple choice questions. Students may have multiple attempts until they achieve 100%. For the purposes of the overall weighting students will be awarded the mark that they achieve on their first attempt.

Marking criteria: The Quiz will be marked in accordance with pre-determined model answers that have been internally moderated.

2. Learning Activities Question Bank:

This assessment enables students to demonstrate their understanding of:

- How medications are regulated in Australia
- The principles of the 'Hepatic First Pass effect'
- The roles and responsibilities of healthcare professionals involved in the medication cycle
- The contributing factors to medication errors (and near-miss incidents), associated with prescribing, dispensing, administering, monitoring medications and preventative strategies to reduce errors.

Details: This assessment item requires students to complete short answer questions and submit an electronic file to Turnitin for text matching by the due date. Each answer must be correctly structured using the conventions of academic writing (sentences, paragraphs, grammar, spelling and referencing).

Other elements:

- Always refer to the Griffith College DHC Assignment Writing Guidelines
- Ensure that scholarly literature is used (digitised readings, research articles, relevant Government reports and text books)
- State the word count (excluding your reference list) on the Cover Sheet/Page
- Submit your assignment online via Turnitin as per the instructions on 1807NRS course site.

Marking criteria: for detailed marking criteria refer to 1807NRS course site at Griffith College Portal

3. End of Trimester Examination (EOT):

This individual assessment item is designed to assess the knowledge and understanding of the core concepts covered throughout the entire trimester. The exam will assess the students' learning stemming from core concepts covered in lectures, tutorials and workshops presented during the whole course.

Details: The exam will consist of multiple choice questions

Marking criteria: the exam will be marked following a strict marking guide and will undergo a full moderation process.

Requirements to pass the course:

In order to pass this course and in addition to meeting the tutorial and workshop attendance and participation requirements, students must:

- Attempt and submit ALL assessment items
- Achieve 100% in the online Medication Calculation Examination (multiple attempts permitted). However, grade achieved on first attempt will be recorded
- Achieve a minimum cumulative total of 50% from all graded assessments.

5.3 Late Submission

An evidence of learning (assessment) item submitted after the due date, without an approved extension from the Course Coordinator, will be penalised. The standard penalty is the reduction of the mark allocated to the assessment item by 5% of the maximum mark applicable for the assessment item, for each working day or part working day that the item is late. Evidence of learning items submitted more than five working days after the due date are awarded zero marks.

Please refer to the Griffith College website - Policy Library > [Assessment Policy](#) for guidelines and penalties for late submission.

5.4 Other Information about Evidence of Learning

Retention of Originals

You must be able to produce a copy of all work submitted if so requested. Copies should be retained until after the release of final results for the course.

Requests for extension

To apply for an extension of time for an evidence of learning item, you must submit an [Application for Extension of Assignment](#) form to your teacher at least 24 hours before the date the assignment is due. Grounds for extensions are usually: serious illness, accident, disability, bereavement or other compassionate circumstances and must be able to be substantiated with relevant documentation [e.g. [Griffith College Student Medical Certificate](#)]. Please refer to the Griffith College website - [Policy Library](#) - for guidelines regarding extensions and deferred assessment.

Return of Evidence of Learning Items

1. Marks awarded for in-trimester evidence of learning items, except those being moderated externally with Griffith University, will be available on the Student Portal within fourteen [14] days of the due date. This does not apply to the final evidence of learning item in this course (marks for this item will be provided with the final course result).
2. Students will be advised of their final grade through the Student Portal. Students can review their final exam papers after student grades have been published. Review of final exam papers will not be permitted after the final date to enrol.

3. Marks for **all** evidence of learning items including the final exam (if applicable) will be recorded in the Moodle Course Site and made available to students through the Moodle Course Site.

The sum of your marks of evidence of learning items in this course does not necessarily imply your final grade for the course. Standard grade cut off scores can be varied for particular courses, so you need to wait for the official release of grades to be sure of your grade for this course.

6. Policies & Guidelines

Griffith College assessment-related policies can be found in the [Griffith College Policy Library](#) which include the following policies:

[Assessment Policy](#), [Special Consideration](#), [Deferred Assessment](#), [Alternate Exam Sitings](#), [Medical Certificates](#), [Academic Integrity](#), [Finalisation of Results](#), [Review of Marks](#), [Moderation of Assessment](#), [Turn-it-in Software Use](#). These policies can be accessed within the [Policy Library](#)

Academic Integrity Griffith College is committed to maintaining high academic standards to protect the value of its qualifications. Academic integrity means acting with the values of honesty, trust, fairness, respect and responsibility in learning, teaching and research. It is important for students, teachers, researchers and all staff to act in an honest way, be responsible for their actions, and show fairness in every part of their work. Academic integrity is important for an individual's and the College's reputation.

All staff and students of the College are responsible for academic integrity. As a student, you are expected to conduct your studies honestly, ethically and in accordance with accepted standards of academic conduct. Any form of academic conduct that is contrary to these standards is considered a breach of academic integrity and is unacceptable.

Some students deliberately breach academic integrity standards with intent to deceive. This conscious, pre-meditated form of cheating is considered to be one of the most serious forms of fraudulent academic behaviour, for which the College has zero tolerance and for which penalties, including exclusion from the College, will be applied.

However, Griffith College also recognises many students breach academic integrity standards without intent to deceive. In these cases, students may be required to undertake additional educational activities to remediate their behaviour and may also be provided appropriate advice by academic staff.

As you undertake your studies at Griffith College, your lecturers, tutors and academic advisors will provide you with guidance to understand and maintain academic integrity; however, it is also your responsibility to seek out guidance if and when you are unsure about appropriate academic conduct.

In the case of an allegation of a breach of academic integrity being made against a student he or she may request the guidance and support of a Griffith College Student Learning Advisor or Student Counsellor.

Please ensure that you are familiar with the Griffith College Academic Integrity Policy; this policy provides an overview of some of the behaviours that are considered breaches of academic integrity, as well as the penalties and processes involved when a breach is identified.

For further information please refer to the Griffith College website - Policy Library > [Academic Integrity Policy](#)

Reasonable Adjustments for Assessment – The Disability Services policy

The [Disability Services policy](#) (accessed within the [Policy Library](#)) outlines the principles and processes that guide the College in making reasonable adjustments to assessment for students with disabilities while maintaining academic robustness of its programs.

Risk Assessment Statement

There are no out of the ordinary risks associated with this course.

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