



BMSC12014 Pharmacology for Health Professionals

Term 2 - 2024

Profile information current as at 29/07/2024 03:19 pm

All details in this unit profile for BMSC12014 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

In this unit, you will develop an understanding of the fundamental principles of pharmacology and pharmacotherapy relevant to your health profession. You will explore the mechanism of action of major drug classes used in pharmacological interventions or procedures in patient management relevant to your profession. You will be required to demonstrate critical analysis of this content and align this with current practice in your respective professions.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisites: Pre-requisite for all courses except CV69: BMSC11005 Foundations of Biochemistry Pre-requisite for CV69: ECHO11004 Biochemistry for Cardiac Pharmacology

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 2 - 2024

- Cairns
- Online
- Rockhampton
- Townsville

Attendance Requirements

All on-campus students are expected to attend scheduled classes - in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Online Quiz(zes)**

Weighting: 20%

2. **Written Assessment**

Weighting: 30%

3. **Online Test**

Weighting: 50%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Student emails; SUTE

Feedback

The oral feedback students received for the written assessment task was comprehensive and constructive.

Recommendation

Continue to provide oral feedback for the written assessment task.

Feedback from SUTE

Feedback

The unit provides useful information about 'on-the-job' pharmaceuticals and common prescription drugs in Australia.

Recommendation

Continue to provide course-specific material as well as content on common prescription medications.

Feedback from SUTE

Feedback

The 'real-world' drug examples provided in the tutorials made the unit more interesting.

Recommendation

Continue to integrate clinical ('real-world') examples into the unit material.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Discuss the basic principles of pharmacology, including pharmacodynamics, pharmacokinetics and drug design
2. Discuss the indications, pharmacological action, routes of administration, contraindications, side effects and precautions of the major medication groups used in your health profession
3. Discuss pharmacological applications associated with common procedures undertaken with your health profession
4. Critically analyse the scientific literature relating to drugs and medicines within your health profession.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Written Assessment - 30%		•	•	•
2 - Online Quiz(zes) - 20%	•			
3 - Online Test - 50%	•	•	•	

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Communication	•	•	•	•
2 - Problem Solving				•
3 - Critical Thinking	•	•	•	•
4 - Information Literacy				•
5 - Team Work				
6 - Information Technology Competence				
7 - Cross Cultural Competence				
8 - Ethical practice		•	•	•
9 - Social Innovation				
10 - Aboriginal and Torres Strait Islander Cultures				

Textbooks and Resources

Textbooks

There are no required textbooks.

Additional Textbook Information

All core readings for this unit are provided for free on the unit's Moodle site. If you would like additional readings, you may wish to purchase 'Pharmacology for Health Professionals' (complete details below). This textbook contains relevant information, but it is not used directly in BMSC12014, so purchasing it is completely optional.

Pharmacology for Health Professionals

Authors: Knights, Rowland, Darroch, Bushell, Hatje and Reinke

6th Edition (2022)

ISBN: 9780729544627

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

All submissions for this unit must use the referencing styles below:

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)
- [Vancouver](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Jordon Irwin Unit Coordinator

j.irwin@cqu.edu.au

Schedule

Week 1 - 08 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 1 Introduction to Pharmacology	Module 1 of the Pharmacology Handbook (available on Moodle)	Tutorial on Unit Overview

Week 2 - 15 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 2 Introduction to Pharmacodynamics	Module 2 of the Pharmacology Handbook (available on Moodle)	Tutorial on Module 1

Week 3 - 22 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 3 Introduction to Pharmacokinetics	Module 3 of the Pharmacology Handbook (available on Moodle)	Tutorial on Module 2

Week 4 - 29 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Module 4 | Introduction to Therapeutic Drug Monitoring and Drug Development

Module 4 of the Pharmacology Handbook (available on Moodle)

Tutorial on Module 3

Week 5 - 05 Aug 2024**Module/Topic****Chapter****Events and Submissions/Topic****Module 5 | Common Prescription Drugs I**

Drugs for cardiovascular diseases

Module 5 of the Pharmacology Handbook (available on Moodle)

Tutorial on Module 4

Introductory Pharmacology Quiz
Opens: Week 5 Monday (5 Aug 2024)
12:01 pm AEST**Introductory Pharmacology Quiz**
Due: Week 5 Friday (9 Aug 2024)
12:01 pm AEST**Vacation Week - 12 Aug 2024****Module/Topic****Chapter****Events and Submissions/Topic****Vacation Week | Catch-up, Assessment Preparation, Revision****Week 6 - 19 Aug 2024****Module/Topic****Chapter****Events and Submissions/Topic****Module 6 | Common Prescription Drugs II**

Drugs for diabetes mellitus

Module 6 of the Pharmacology Handbook (available on Moodle)

Tutorial on Module 5

Week 7 - 26 Aug 2024**Module/Topic****Chapter****Events and Submissions/Topic****Module 7 | Pharmacology in Practice I**CG95/CM40: Emergency cardiovascular drugs I
CV69: Drugs used in echocardiography procedures I

Module 7 of the Pharmacology Handbook (available on Moodle)

Tutorial on Module 6

Week 8 - 02 Sep 2024**Module/Topic****Chapter****Events and Submissions/Topic****Module 8 | Pharmacology in Practice II**CG95/CM40: Emergency cardiovascular drugs II
CV69: Drugs used in echocardiography procedures II

Module 8 of the Pharmacology Handbook (available on Moodle)

Tutorial on Module 7

Written Assignment Due: Week 8
Friday (6 Sept 2024) 12:01 pm AEST**Week 9 - 09 Sep 2024****Module/Topic****Chapter****Events and Submissions/Topic****Module 9 | Pharmacology in Practice III**CG95/CM40: Drugs for emergency respiratory conditions, allergic reactions and endocrine disorders
CV69: Drugs which affect echocardiographic findings

Module 9 of the Pharmacology Handbook (available on Moodle)

Tutorial on Module 8

Week 10 - 16 Sep 2024**Module/Topic****Chapter****Events and Submissions/Topic****Module 10 | Pharmacology in Practice IV**CG95/CM40: Emergency CNS drugs and antidotes
CV69: Drugs which cause cardiotoxicity

Module 10 of the Pharmacology Handbook (available on Moodle)

Tutorial on Module 9

Week 11 - 23 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Revision		Tutorial on Module 10

Week 12 - 30 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Revision		Online Test Opens: Week 12 Monday (30 Sept 2024) 12:01 pm AEST Online Test Due: Week 12 Friday (4 Oct 2024) 12:01 pm AEST

Term Specific Information

Contact Details for Teaching Staff

The unit coordinator for BMSC12014 is Jordon Irwin. Jordon can be reached via email at j.irwin@cqu.edu.au, by phone at (07) 4923 2550, and through the Q&A forum on Moodle.

Unit Modules

BMSC12014 comprises three main blocks of content: 'Introductory Pharmacology' (Modules 1 to 4), 'Common Prescription Drugs' (Modules 5 and 6) and 'Pharmacology in Practice' (Modules 7 to 10). Students from all courses complete the same 'Introductory Pharmacology' and 'Common Prescription Drugs' modules. The 'Pharmacology in Practice' modules are course-specific to ensure that you learn about drugs directly relevant to your healthcare profession.

Lectures and Tutorials

The lectures for this unit are pre-recorded and available on the unit's Moodle site. Live tutorials are delivered weekly on Zoom with ISL to three campuses: Cairns, Rockhampton, and Townsville. Please refer to the [CQU Handbook](#) for specific times and room locations. The tutorials are also recorded and made available for later viewing on the Moodle site.

Readings in this Unit

All core readings for this unit are available for free on the Moodle site, with each week's chapter noted in the Unit Schedule above. If you would like to do additional reading, you are welcome to purchase the following textbook: Pharmacology for Health Professionals by Knights, Rowland, Darroch, Bushell, Hatje and Reinke. Please note that this textbook is not directly used in the unit, so purchasing it is completely optional.

Unit Study Commitment

As per Australian education standards, this unit requires a total study commitment of 150 hours over the term. Here is a suggested weekly study schedule for BMSC12014:

- 3-4 hours watching lectures and tutorials
- 1-2 hours completing the weekly readings
- 2-3 hours completing the weekly revision activities
- 2-3 hours preparing for the Introductory Pharmacology Quiz, Written Assessment or Online Test

Assessment Tasks

1 Introductory Pharmacology Quiz

Assessment Type

Online Quiz(zes)

Task Description

A solid understanding of molecular drug targets, pharmacodynamics, pharmacokinetics and drug development is essential for understanding the use of drugs in healthcare. After covering these concepts in Modules 1 to 4, you will complete an online quiz.

Introductory Pharmacology Quiz details:

- Opens - 12:01 PM (AEST) on Monday 5th August 2024 (Week 5)
- Closes - 12:01 PM (AEST) on Friday 9th August 2024 (Week 5)
- Concepts assessed - Modules 1 to 4 (the 'Introductory Pharmacology' modules)
- Attempts allowed - one (1)

No collusion, use of ChatGPT/OpenAI or group work is permitted when completing the Introductory Pharmacology Quiz.

Number of Quizzes

1

Frequency of Quizzes

Other

Assessment Due Date

Week 5 Friday (9 Aug 2024) 12:01 pm AEST

The Introductory Pharmacology Quiz will end once you click submit, when the time limit is exhausted, or when the due date and time are reached.

Return Date to Students

Week 6 Friday (23 Aug 2024)

The Introductory Pharmacology Quiz will be graded manually, and the results will be returned via Moodle within two (2) weeks of the due date.

Weighting

20%

Minimum mark or grade

50%

Assessment Criteria

Marks will be awarded for correct responses.

Referencing Style

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)
- [Vancouver](#)

Submission

Online

Submission Instructions

The Introductory Pharmacology Quiz will be accessed and completed individually via Moodle.

Learning Outcomes Assessed

- Discuss the basic principles of pharmacology, including pharmacodynamics, pharmacokinetics and drug design

2 Written Assignment

Assessment Type

Written Assessment

Task Description

In this assessment task, you will use the scientific literature to complete a series of tasks. Some activities will have the required sources provided, whereas for others, you will need to conduct your own research.

To answer the questions, you must critically analyse the scientific literature and discuss the indications, mechanisms of action, pharmacokinetics, precautions and/or applications of drugs which are used in your health profession. The questions and resources necessary for completing this assignment are available on the BMSC12014 Moodle site. No collusion, use of ChatGPT/OpenAI or group work is permitted when preparing your assignment.

Assessment Due Date

Week 8 Friday (6 Sept 2024) 12:01 pm AEST

In the absence of an approved extension, a 5% late penalty will be applied for each day the assignment remains unsubmitted.

Return Date to Students

Week 10 Friday (20 Sept 2024)

Results and feedback will be returned via Moodle within two (2) weeks of the due date.

Weighting

30%

Minimum mark or grade

50%

Assessment Criteria

An overview of the assessment criteria is as follows:

- Knowledge and understanding: Provide accurate and comprehensive information regarding the mechanism of action, routes of administration, indications, side effects, drug interactions, precautions, contraindications and/or applications of drugs relevant to your health profession.

- Critical thinking: Demonstrate critical analysis of decision-making processes and scientific literature.
- Research: Distinguish between scholarly and non-scholarly sources of information, with only peer-reviewed journal articles used as references.
- Communication: Write response which are coherent, concise and demonstrate correct spelling and grammar.

The Written Assignment will be marked according to a detailed marking rubric which will be available on the Written Assignment information page on Moodle.

Referencing Style

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)
- [Vancouver](#)

Submission

Online

Submission Instructions

Your responses are to be submitted in a Word document (.doc) format via Moodle.

Learning Outcomes Assessed

- Discuss the indications, pharmacological action, routes of administration, contraindications, side effects and precautions of the major medication groups used in your health profession
- Discuss pharmacological applications associated with common procedures undertaken with your health profession
- Critically analyse the scientific literature relating to drugs and medicines within your health profession.

3 Online Test

Assessment Type

Online Test

Task Description

In Week 12 of the term, you will complete an Online Test.

Online Test details:

- Opens - 12:01 PM (AEST) on Monday 30th September 2024 (Week 12)
- Closes - 12:01 PM (AEST) on Friday 4th October 2024 (Week 12)
- Concepts assessed - Modules 5 to 10 (the 'Common Prescription Drugs' and 'Pharmacology in Practice' modules)
- Attempts allowed - one (1)

No collusion, use of ChatGPT/OpenAI or group work is permitted when completing the Online Test.

Assessment Due Date

Week 12 Friday (4 Oct 2024) 12:01 pm AEST

The Online Test will end once you click submit, when the time limit is exhausted, or when the due date and time are reached.

Return Date to Students

Exam Week Friday (18 Oct 2024)

The Online Test will be graded manually, and the results will be returned via Moodle within two (2) weeks of the due date.

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

Marks will be awarded for correct responses.

Referencing Style

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)
- [Vancouver](#)

Submission

Online

Submission Instructions

The Online Test will be accessed and completed individually via Moodle.

Learning Outcomes Assessed

- Discuss the basic principles of pharmacology, including pharmacodynamics, pharmacokinetics and drug design
- Discuss the indications, pharmacological action, routes of administration, contraindications, side effects and precautions of the major medication groups used in your health profession
- Discuss pharmacological applications associated with common procedures undertaken with your health profession

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem