



BMSC13010 Pharmacology

Term 3 - 2021

Profile information current as at 18/08/2022 01:57 am

All details in this unit profile for BMSC13010 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 advanced knowledge and understanding of the fundamental principles of pharmacology and pharmacotherapy. You will explore the mechanism of action of major drug classes used in the treatment of diseases relevant to your profession. Pharmacokinetics, receptor selectivity, efficacy and the optimum route of administration of pharmaceuticals will also be studied. You will be required to understand the practical responses of pharmaceuticals on various tissue types and relate this content to other aspects of Medical Science and your respective professions.

Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisites CG93 Medical Science, CL10 Medical Laboratory Science and CG95 Paramedic Science: BMSC12010 CB66 Health Science (Allied Health): MBIO12013 and BIOH12008 CB86 Bachelor of Podiatry Practice (Honours): ALLH11001, and BMSC11008 (or ALLH11004), and HLTH11027, and PSYC11010, and BMSC11007 (or ALLH11005), and ALLH11009 (or ALLH12007), and ALLH11006 and HLTH12028

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 3 - 2021

- Mixed Mode

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).

Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are:

Click here to see your [Residential School Timetable](#).

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. **Written Assessment**

Weighting: 25%

2. **Laboratory/Practical**

Weighting: Pass/Fail

3. **Practical Assessment**

Weighting: 25%

4. **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 feedback - formal evaluations

Feedback

The laboratory experience was engaging with a real-life research project incorporated

Recommendation

Continue to develop and deliver the updated laboratory experience myth busting drug effects

Feedback from External accreditation review student feedback

Feedback

The unit content provided a valuable capstone knowledge of human disease from pathophysiology to effective drug treatment

Recommendation

Continue to deliver contextualised and contemporary content and laboratory skills.

Feedback from Student feedback - formal evaluations

Feedback

The practical assessment item and residential school scheduled so late in the term caused time pressure and stress in completing the item and delayed feedback

Recommendation

The teaching and scheduling team have revised the structure and scaffolding of assessment items and timing of the residential school to earlier in the term of offering. This will provide more time for students to integrate their knowledge and practical experience in completing the assessment item.

Unit Learning Outcomes

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

1. Discuss the basic principles and the applications of pharmacology - pharmacodynamics, pharmacokinetics, drug design and clinical trials
2. Classify the major groups of medicines with respect to use in pathophysiologies, their actions and side effects
3. Perform data acquisition, analysis of results and discussions of findings of pharmacological experiments
4. Provide an evidence-based explanation of how pharmaceuticals mediate their effects.

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 - 25%	•	•		•
2 - Laboratory/Practical - 0%			•	

Assessment Tasks	Learning Outcomes			
	1	2	3	4
3 - Practical Assessment - 25%			•	
4 - 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				

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 25%	•	•	•	•						
2 - Laboratory/Practical - 0%	•	•	•	•		•				
3 - Practical Assessment - 25%	•	•	•	•						
4 - Online Test - 50%	•	•	•	•						

Textbooks and Resources

Textbooks

BMSC13010

Prescribed

Rang and Dale's Pharmacology

Edition: 9th edn (2019)

Authors: Ritter J, Flower R, Henderson G, Rang H

Elsevier / Churchill Livingstone

London, UK

ISBN: 9780702074486

Binding: Paperback

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Computer-aided learning modules (CALs)

Referencing Style

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

- [Vancouver](#)
- [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Andrew Fenning Unit Coordinator

a.fenning@cqu.edu.au

Schedule

Week 1 - 08 Nov 2021

Module/Topic	Chapter	Events and Submissions/Topic
Drug-receptor interactions/Drug targets/Signal transduction	Online course material and PowerPoint notes/lecture videos Chapters 2 and 3 from the textbook	Module lecture content (pre-recorded ECHO360)

Week 2 - 15 Nov 2021

Module/Topic	Chapter	Events and Submissions/Topic
Pharmacokinetics and Clinical Trials	Online course material and PowerPoint notes/lecture videos Chapters 8, 9 and 10 from the textbook	Module lecture content (pre-recorded ECHO360)

Week 3 - 22 Nov 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Autonomic Pharmacology and Cardiovascular 1	Online course material and PowerPoint notes/lecture videos Chapters 12, 13 and 14 from the textbook	Module lecture content (pre-recorded ECHO360)
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Week 4 - 29 Nov 2021

Module/Topic	Chapter	Events and Submissions/Topic
Cardiovascular 2-4 Residential school (30/11/2021-01/12/2021)	Online course material and PowerPoint notes/lecture videos Chapters 21, 22 and 23 from the textbook	Module lecture content (pre-recorded ECHO360) Simulated drug effects Due: Week 4 Monday (29 Nov 2021) 11:55 pm AEST

Vacation Week - 06 Dec 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Week 5 - 13 Dec 2021

Module/Topic	Chapter	Events and Submissions/Topic
CNS Pharmacology 1-3 (transmitters, depression, psychosis, ageing)	Online course material and PowerPoint notes/lecture videos Chapters 37, 38, 39, 40, 44, 45, 45, 46 and 47 from the textbook	Module lecture content (pre-recorded ECHO360)

Week 6 - 20 Dec 2021

Module/Topic	Chapter	Events and Submissions/Topic
CNS Pharmacology - drugs of abuse, analgesia and anaesthesia	Online course material and PowerPoint notes/lecture videos Chapters 41, 42, 43, 48 and 49 from the textbook	Module lecture content (pre-recorded ECHO360)

Vacation Week - 27 Dec 2021

Module/Topic	Chapter	Events and Submissions/Topic
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Week 7 - 03 Jan 2022

Module/Topic	Chapter	Events and Submissions/Topic
Antibiotics, antifungals and antiseptics	Online course material and PowerPoint notes/lecture videos Chapters 50, 51 and 53 from the textbook	Module lecture content (pre-recorded ECHO360)

Week 8 - 10 Jan 2022

Module/Topic	Chapter	Events and Submissions/Topic
Obesity, gastrointestinal, respiratory and endocrine pharmacology	Online course material and PowerPoint notes/lecture videos Chapters 28, 30, 32 and 35 from the textbook	Module lecture content (pre-recorded ECHO360) Complex reasoning - mythical drug review / data analysis report from practical tasks Due: Week 8 Friday (14 Jan 2022) 11:55 pm AEST

Week 9 - 17 Jan 2022

Module/Topic	Chapter	Events and Submissions/Topic
All content delivered - revision		

Week 10 - 24 Jan 2022

Module/Topic	Chapter	Events and Submissions/Topic
All content delivered - revision		

Week 11 - 31 Jan 2022

Module/Topic	Chapter	Events and Submissions/Topic
All content delivered - revision		

Week 12 - 07 Feb 2022

Module/Topic	Chapter	Events and Submissions/Topic
All content delivered - revision		

Exam Week - 14 Feb 2022

Module/Topic	Chapter	Events and Submissions/Topic
		End of term online test (Assessment item 3) To be scheduled during the Term 3 2021/2022 examination block (14th-18th February 2022)

Term Specific Information

Your teaching team for T3 2021

Your unit coordinator is Dr Andrew Fenning together with a team of laboratory and postgraduate support staff who will be managing the different components of the unit. You can contact me using the forum on the unit's Moodle site, via phone (0749232568) or email (a.fenning@cqu.edu.au).

The unit

BMSC13010 Pharmacology fits into your course as a direct follow-on to BMSC12010 (Clinical Biochemistry) incorporating important aspects of your learning journey to date such as physiology, anatomy, pathophysiology, cardiorespiratory physiology and neurophysiology as examples. Successfully completing BMSC13010 allows for important scaffolding to other third level (advanced) units such as Paramedic and Podiatry specific pharmacology units, clinical measurement units and BMSC13009 Immunology. BMSC13010 is a core unit in several courses, including:

- Bachelor of Medical Science (CG93)
- Bachelor of Medical Laboratory Science (CL10)
- Bachelor of Paramedic Sciences (CG95)
- Bachelor of Podiatry (CB86)

And as electives for:

- Bachelor of Science (CU18)
- Bachelor of Health Science (Allied Health) (CB66)

Expectations - boldly go.....(where others have gone before!)

Despite the rumoured tough nature of this unit (yes - the unit contains new content which will be the first major focus you've experienced on how drugs work) the class always raises the bar! This is illustrated by the excellent success rates (92% of students passed) and the percentage of students who achieved a HD (8%), D (21%), C (31%), P (25%) or F (8%) grades. In an analysis (interaction with the Unit) of why a student achieved a HD, D or C grade compared to a P or F grade the answer appears to be linked to your meaningful engagement. HD students interact with the material almost 2.5 times as much as a P student. That is a significant difference in the level of engagement and potential for learning!

Delivery and study commitment

This unit has all of the lecture content presented over the first 8 blocks of the unit schedule/unit Moodle page (these recordings are all pre-recorded). This is delivered on topic/module areas rather than a traditional weekly schedule. The 8 blocks/modules of content delivery will have an associated recorded ECHO360 lecture (and PowerPoint file) and be delivered in a 2.5-3 hour time format. The PowerPoint file and lecture content are the primary delivery medium for this unit and will be where the online test questions are drawn from. The final 4 weeks of the unit schedule have no content delivery - this has been intentionally left free to allow for consolidation and self managed/directed study and completion of any remaining assessment items. As the online test forms an integral component of your tasks during the term, you should use this time to prepare for this item. You still have the same amount of content/contact time as other units - it has just been designed and delivered in a topic format of 8 weeks x 3 hours rather than 12 weeks x 2 hours.

As with other Units - the design is such that students are expected to spend on average 10-12.5 hours per week (150 hours total) on associated study activities for this Unit. As a rough "time budget estimate" the approximate guide for your study per assessment is as follows:

- Assessment item 1 CALs (25%) - 20 hours
- Assessment item 2 Laboratory/Practical Residential school (CG93, CL10 and CU18 courses only) (0%)
- Assessment item 3 Mythical drug review / data analysis report from the practical tasks (25%) - 40 hours
- Assessment item 4 End of term online test (50%) 90 hours

If you consider the lecture content and other activities will total approximately 40 hours, your own study needs to account for the rest (110 hours). Assessment items 1 and 3 have elements which are "time on task" activities to also contribute to the weekly content and hence the generic content study for this Unit. Use these details as a guide because your study journey and requirements are unique (some students may require less or more hours than suggested to pass).

Practical/Residential School information - important details (Assessment item 2)

If you are enrolled in the Medical Science (CG93), Medical Laboratory Science (CL10) or Science (CU18) courses it is a course level learning and skill requirement for compulsory attendance of the laboratory residential school. If you are enrolled in Paramedic Science (CG95), Podiatry (CB86) or Allied Health (CB66) courses, it is not compulsory for your course level learning outcomes to attend the residential school (you can still attend if you wish, however consider your study load). For those students who attend the residential school there is a specific practical and data report to complete as an alternative to the mythical drug review.

For those students needing to complete the residential school it is scheduled for Tuesday 30/11/2021 - Wednesday 01/12/2021.

Brief assessment overview and tips

- Assessment item 1 Simulation - a simulated series of laboratory experiments which allow you to visualise drug-receptor interactions and responses
- Assessment item 2 Laboratory/Practical Residential school (CG93, CL10 and CU18 courses only)
- Assessment item 3 Mythical drug review / data analysis report from the practical tasks - a mini review of an imaginary drug which requires you to integrate knowledge from the previous assessment items and formulate a mechanism of action and how you would test the drug OR report and analysis of experiments conducted during the residential school
- Assessment item 4 End of term online test - content knowledge and problem solving

Make sure you cite correctly and gather sufficient reference materials for the written assessment item 3 - this was a common feature for a less than optimal grade.

Assessment Tasks

1 Simulated drug effects

Assessment Type

Written Assessment

Task Description

Gaining familiarity on where and how drugs act on tissues is an important experimental and clinical skill used in your future professional and personal lives. This task requires you to complete an online simulated set of activities and submit your responses / answers which are derived from this task in the electronic answer booklet provided in Moodle. The simulation is a virtual pharmacology experiment which will enable you to perform drug additions and view the responses. This will help to develop a basic understanding of the laboratory and analysis linked to drug design and testing and drug/organism interactions. As noted in lectures, drug dosing experiments enable pharmacologists to investigate the physiology and pharmacology of in vitro tissue preparations. The theory behind the simulated experiments is discussed further in the experimental instruction manual which is available on the unit Moodle site under the "essential information" tab, as are the step-by-step instructions for using this online module.

In order to complete this activity, you are required to follow the instructions outlined in the instruction manual and collect experimental data generated from the simulated tissues. Once you have collected your data, you are required to prepare responses, observations, calculations and answer a series of questions which relate to the online module you just completed. The completion of this activity will enable you to further understand concepts relating to agonists, antagonists, EC50s, cumulative concentration responses and will enable you to get an introductory understanding of how pharmacological experiments are conducted. This task will help those students prepare for the laboratory setting and may (in conceptual form) also assist in completion of Assessment item 3.

Assessment Due Date

Week 4 Monday (29 Nov 2021) 11:55 pm AEST

Return Date to Students

Week 6 Monday (20 Dec 2021)

Weighting

25%

Minimum mark or grade

50%

Assessment Criteria

This task requires the submission of observations, data, graphs and responses generated as a result of completing the simulated experiments. The data tables and graphs you submit will be assessed for your ability to interpret and present the generated data in a professional manner. The written responses you submit each contain weighted marks as outlined in the instruction manual and will be marked either correct or incorrect based upon your understanding of key concepts and the interpretation of the results you develop. Given the nature of the task referencing is unnecessary however the responses still need to be in your own words.

Referencing Style

- [Vancouver](#)
- [Harvard \(author-date\)](#)

Submission

Online

Learning Outcomes Assessed

- Discuss the basic principles and the applications of pharmacology - pharmacodynamics, pharmacokinetics, drug design and clinical trials
- Classify the major groups of medicines with respect to use in pathophysiologies, their actions and side effects
- Provide an evidence-based explanation of how pharmaceuticals mediate their effects.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

2 Pharmacology laboratory experiments

Assessment Type

Laboratory/Practical

Task Description

This task is for the **CG93, CL10 and CU18 course learning outcomes students only** - with a submission linked to the **Assessment item 3 task**. You will be provided with a laboratory workbook on the Moodle site. This workbook will contain all the tasks (experiments, skills and data analysis) that need to be completed during the residential school block. Group experimental activities during the residential school will foster team work and provide hands-on experience of the pharmacological techniques used in testing and research laboratories. Completion of the tasks will evidence student engagement and understanding of the principles behind the pharmacological tests. Laboratory staff or demonstrators will assess your individual experimental capability during residential school to ensure your understanding of the learning outcomes. There is a linked submission task for this residential school in lieu of the mythical drug review in Assessment item 3.

Assessment Due Date

This task will be completed during the residential school - submission of the report as Assessment item 3

Return Date to Students

This task will be completed during the residential school - submission of the report as Assessment item 3

Weighting

Pass/Fail

Assessment Criteria

Successful completion of the laboratory activities/workbook at the residential school and submission of the linked report in Assessment item 3.

Referencing Style

- [Vancouver](#)
- [Harvard \(author-date\)](#)

Submission

Offline

Submission Instructions

Successful completion of the laboratory activities/workbook at the residential school and submission of Assessment item 3

Learning Outcomes Assessed

- Perform data acquisition, analysis of results and discussions of findings of pharmacological experiments

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence

3 Complex reasoning - mythical drug review / data analysis report from practical tasks

Assessment Type

Practical Assessment

Task Description

This assessment item has two distinct options and is modularised depending on the courses/programs you are studying.

Option 1 - Mythical drug review is for the **CG95/CB68/CB66** students to complete. **Option 2** - Data analysis report from practical tasks is for the **CG93/CL10/CU18** students to complete and is linked to the residential school attendance component (pharmacological laboratory experiments) from Assessment item 2.

Option 1 - Mythical drug review (CG95/CB68/CB66)

This task requires you to establish the potential mechanism of action and outline a series of experiments you could use to verify the pharmacological actions of an imaginary drug. Communication, problem solving and applying knowledge to a variety of scenarios will be part of your everyday future in health care. This fictitious drug task will require you to apply your understanding of pharmacological principles to postulate a mythical drug's cellular target(s), mechanism of action and physiological effects. In a real world context, pharmacologists are required to test new chemical compounds and work to identify the physiological effects they have within the body (for example, does a new compound increase heart rate?). Once the physiological effects for new compounds have been identified, pharmacologists must then work to identify the mechanism through which the observed effects are mediated (for example, what receptors are activated or blocked, what proteins undergo phosphorylation, what genes are turned off and on). You should approach this from the perspective that the mythical drug will achieve better clinical outcomes or effects compared to a known existing drug or compound. This could be related to actual positive effects or decreased side effects or a combination of both. For the potential "drug of abuse" in the below option list - obviously the clinical component isn't the focus so please keep that in mind.

In this assessment item you are given the observations/effects for four imaginary drugs. **You are to choose one of the three options to report on.** Once you have made your choice you are to describe how the drug works and a series of experiments you could use to test the mechanism/s through which the imaginary drug is mediating its effects.

Imaginary drugs you can choose from -

- **Boostaheart** - a new medication which is used to treat heart failure but causes few side effects and improves survival
- **Bloodydyin** - a new medication used for the treatment of sepsis
- **Microbebusta** - revolutionary new broad spectrum compound which shows antifungal, antiviral and antibacterial effects

As a guide, you may like to consider how experimental techniques we have covered in simulation could be used, clinical trials and any other methods you have identified during your literature search to determine the mechanism of action for your imaginary drug. It would be advantageous to position your proposed experiments with a discussion on existing compounds that may have similar properties. The use of peer-review journal articles as information sources is expected (a minimum of 10 primary references are required for this assessment item), whilst the use of internet / pharmaceutical

company websites is discouraged. Word limit for this assessment item is 2500 words. By completing this task it is hoped you will gain a greater understanding of receptor targets and how drugs work, demonstrate basic knowledge of preclinical tissue bath testing and clinical trials, and demonstrate creative written expression and advanced literature review and integration.

Option 2 - Data analysis report from practical tasks (pharmacology laboratory experiments) (CG93/CL10/CU18)

This item is linked to **Assessment item 2 - residential school**. During the residential school you will have completed practical tasks which are used to test and compare various pharmaceutical agents demonstrating competency in the pharmacological testing laboratory. You will complete a report based on one of the experiments chosen by the Unit Coordinator. This will compliment the practical exercises completed during the residential school. This report will involve a review and analysis of the experimental technique, drugs tested and data analysis of the responses recorded. More details will be provided during residential school and on Moodle.

Assessment Due Date

Week 8 Friday (14 Jan 2022) 11:55 pm AEST

Return Date to Students

Week 11 Friday (4 Feb 2022)

Weighting

25%

Minimum mark or grade

50%

Assessment Criteria

A detailed marking excel criteria sheet can be found on the unit Moodle page, however assessment will be based on the knowledge of theory, rationalization and justification of your arguments/ideas/proposed experiments, quality and quantity of information sources used, presentation of references, presentation and formatting the content (including images, figures, or tables), spelling and grammar.

Marking criteria mythical drug review:

Fundamental content - 15 marks establishing a mechanism of action

Positioning of your arguments - 15 marks logical and critical evaluation of the literature and techniques

Writing style/overall presentation - 10 marks excellent grammar and proofing

Referencing - 10 marks correct citation and referencing used

Total = 50 marks

Marking criteria data analysis report from the practical tasks:

Introduction - 10 marks

Analysis of the data collected (results/discussion) - 30 marks

Writing style/overall presentation - 5 marks excellent grammar and proofing

Referencing - 5 marks correct citation and referencing used

Total = 50 marks

Referencing Style

- [Vancouver](#)
- [Harvard \(author-date\)](#)

Submission

Online

Learning Outcomes Assessed

- Perform data acquisition, analysis of results and discussions of findings of pharmacological experiments

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

4 End of Term online test

Assessment Type

Online Test

Task Description

There will be a two hour online test at the end of term, which is worth 50% of your final grade. Make sure you have a look at the "Examination revision" section in Moodle for a range of past exams and tutorial videos. Students should note that all the material presented in the unit is potentially examinable. You can access the online test in the Moodle block "Exam Revision" called "Online tests".

Weighting 50%

Minimum pass mark 50%

Instructions for the online test.

1. There are 14 questions on this test.
2. You are required to provide an answer for all 14 questions.
3. Your answers must be entered into the space provided in the question response box.
4. When writing your answers sometimes dot points or flow sequences might be more efficient than paragraphs.
5. Two hours (120minutes) has been allocated for this test - this a compromise due to the lack of invigilation and open book nature of this method.
6. You will have one attempt for this test and once started there will be two hours to complete the responses.
7. There have been multiple questions generated for each topic area. Your test will generate a random selection from these unique question pools for a specific test for you.
8. The topic areas are the same as previous (invigilated) examinations and will appear in the same sequenced order - pharmacological terms, receptors, pharmacokinetics, clinical trials, autonomic, cardiovascular, CNS, analgesia, recreational, antimicrobial, gastrointestinal, respiratory, reproductive, discipline specific choice
9. The total marks available for this test is 150.

Assessment Due Date

The date will be finalised during Term 3 - this item is to be completed during the formal end of term examination block (14-18th February 2022)

Return Date to Students

Grade returned once online marking completed

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

Online version of a traditional written examination - questions will be manually marked.

Referencing Style

- [Vancouver](#)
- [Harvard \(author-date\)](#)

Submission

Online

Learning Outcomes Assessed

- Discuss the basic principles and the applications of pharmacology - pharmacodynamics, pharmacokinetics, drug design and clinical trials
- Classify the major groups of medicines with respect to use in pathophysiologies, their actions and side effects
- Provide an evidence-based explanation of how pharmaceuticals mediate their effects.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

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