

Profile information current as at 19/05/2024 12:56 am

All details in this unit profile for BIOH12012 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 build on your introductory knowledge of the science of the musculoskeletal, renal, immune and lymphatic systems, gastrointestinal, integumentary and reproductive systems to explore fundamental pathophysiology (alteration in function as seen in disease) of these body systems and the pharmacology of drugs used in the treatment and management of diseases. Throughout this unit, you will develop your knowledge of body systems in both healthy and disease states, and how these disease states may be managed therapeutically. The unit concentrates on common major diseases of these body systems which facilitates a comprehensive study of the pathophysiology encountered in these disease states, as well as gaining an understanding of normal physiology. This is complemented by the study of the treatment and management of these diseases, whilst also focusing on the professional and legal responsibilities that underpin the use of medicines in the treatment of human disease.

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-requisite: BIOH12011 Pathophysiology and Pharmacology 1

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

- Online
- Rockhampton

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. **Case Study** Weighting: 30% 3. **Examination** 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 <u>University's Grades and Results Policy</u> 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 <u>CQUniversity Policy site</u>.

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 unit and teaching evaluation.

Feedback

Students like the short lectures and indicated that breaking them down prevents them being overwhelming.

Recommendation

The short lecture format will be retained for future terms.

Feedback from Student unit and teaching evaluation.

Feedback

Students indicated that they enjoy the Question & Answer tutorial being done by a nurse who helps to put the weekly content into a nursing perspective.

Recommendation

A nurse will continue to conduct the Q&A tutorial for future terms.

Feedback from Student unit and teaching evaluation and student emails.

Feedback

Students found that the case study written assessment for BIOH12012 was more complex than the one they did for BIOH12011.

Recommendation

This assessment task is scaffolded to increase the difficulty from BIOH12011. The rubric, task summary and other associated resources for the case study written assessment will be updated to aid in student understanding in future terms.

Unit Learning Outcomes

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

- 1. Apply knowledge of the musculoskeletal, renal, immune and lymphatic systems, gastrointestinal, integumentary and reproductive systems to discuss pathophysiological processes, signs and symptoms of various relevant diseases.
- 2. Evaluate appropriate pharmacological interventions in disease processes of the musculoskeletal, renal, immune and lymphatic systems, gastrointestinal, integumentary and reproductive systems.
- 3. Apply knowledge of pharmacokinetics, pharmacodynamics and pharmacotherapeutics to the evaluation of appropriateness of various pharmacological interventions.
- 4. Discuss the nurse's professional and legal responsibilities in the quality use of medicines.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

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

Assessment Tasks	sessment Tasks Learning Outcomes								
		1		2	2	3	3	4	ı
2 - Case Study - 30%		•		•)			•	•
3 - Examination - 50%		•		•			•		•
Alignment of Graduate Attributes to Learnir	na Outc	ome	es						
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 Assessment Tasks	Attribi Grad			ihuto	c				
ASSESSMENT TUSKS		2	3		5 6	5 7	8	9	10
1 - Online Quiz(zes) - 20%	•			-				<u> </u>	-•
2 - Case Study - 30%	•	•	•			•			
3 - Examination - 50%	•	•				•	 -		

Textbooks and Resources

Textbooks

BIOH12012

Prescribed

Pathophysiology and Pharmacology for Nurses (Volume 1 and 2 - Custom Value Pack)

Edition: 1st (2021)

Authors: Shane Bullock, Elizabeth Manias, Majella Hales, Elaine Marieb, Katja Hoehn, Suzanne Keller, Michael Adams,

Matthew Sorenson

Pearson Australia

ISBN: 9780655798767 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)

Referencing Style

All submissions for this unit must use the referencing style: <u>American Psychological Association 7th Edition (APA 7th edition)</u>

For further information, see the Assessment Tasks.

Teaching Contacts

Debra Carlson Unit Coordinator

d.carlson@cgu.edu.au

Claire Torres Unit Coordinator

c.torres@cqu.edu.au

Schedule

Week 1 - 08 Nov 2021

Module/Topic Chapter Events and Submissions/Topic

Modules 1 and 2: Neoplasia and Immune system pathophysiology and

Disorders associated pharmacology

Chapters 1 to 3.

Week 2 - 15 Nov 2021

Module/Topic Chapter Events and Submissions/Topic

Antimicrobial and Antibacterial Agents and Psychopharmacology	Modules 1 and 2: Neoplasia and immune system pathophysiology and associated pharmacology Chapters 4 to 6 Pathophysiology and Pharmacology for Nurses 1 Modules 11 and 12: Neurological pathophysiology and associated pharmacology Chapters 57 to 60	
Week 3 - 22 Nov 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Renal Anatomy and Physiology	Modules, 3, 4 and 5: Renal pathophysiology and associated pharmacology Chapters 7, 8, 10 and 11	Online Quiz 1: opens Friday, 5:00 pm AEST (QLD)
Week 4 - 29 Nov 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Renal Anatomy & Physiology and Pathophysiology	Modules 3, 4 and 5: Renal pathophysiology and associated pharmacology Chapters 8, 9 and 12	Case Study Topic Selection: closes Monday, 5:00pm AEST (QLD) Online Quiz 1: closes Friday, 5:00 pm AEST (QLD)
Vacation Week - 06 Dec 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Week 5 - 13 Dec 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Renal Pathophysiology and Pharmacology	Modules 3, 4 and 5: Renal pathophysiology and associated pharmacology Chapters 13 to 16	
Week 6 - 20 Dec 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Integumentary Pathophysiology and Pharmacology	Modules 11 and 12: Integumentary pathophysiology and associated pharmacology Chapters 46 to 51	
Vacation Week - 27 Dec 2021		
Module/Topic	Chapter	Events and Submissions/Topic
Week 7 - 03 Jan 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Musculoskeletal Pathophysiology and Pharmacology Part 1	Modules 9 and 10: Musculoskeletal pathophysiology and associated pharmacology Chapters 32 to 36, 38, 42 and 45	Case Study Online Component: closes Tuesday, 5:00pm AEST (QLD)
Week 8 - 10 Jan 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Musculoskeletal Pathophysiology and Pharmacology Part 2	Modules 9 and 10: Musculoskeletal pathophysiology and associated pharmacology Chapters 37 to 41, 43 and 44	
Week 9 - 17 Jan 2022		
Module/Topic	Chapter	Events and Submissions/Topic

Gastrointestinal Pathophysiology and Pharmacology Part 1	Modules 6 and 7: Gastrointestinal pathophysiology and associated pharmacology Chapters 17 to 19, 21 and 22	Written Assessment - Case Study Due: Week 9 Monday (17 Jan 2022) 5:00 pm AEST
Week 10 - 24 Jan 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Gastrointestinal Pathophysiology and Pharmacology Part 2	Modules 6 and 7: Gastrointestinal pathophysiology and associated pharmacology Chapters 19, 20, 22 and 23	
Week 11 - 31 Jan 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Reproductive Anatomy & Physiology and Pathophysiology Part 1	Module 8: Reproductive pathophysiology and associated pharmacology	Online Quiz 2: opens Friday, 5:00 pm AEST (QLD)
Week 12 - 07 Feb 2022		
Module/Topic	Chapter	Events and Submissions/Topic
Reproductive Anatomy & Physiology and Pathophysiology Part 2	Module 8: Reproductive pathophysiology and associated pharmacology	Online Quiz 2: closes Friday, 5:00 pm AEST (QLD)
Exam Week - 14 Feb 2022		
Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

The unit coordinator is Dr Claire Torres

The best way to contact the unit coordinator is by email.

Email: c.torres@cqu.edu.au

Dr Claire Torres has a Doctor of Medicine (Philippines) who practised in the field of dermatology and has a Bachelor of Science degree majoring in Biology (Philippines).

The lectures in BIOH12012 are pre-recorded and primarily delivered by Dr Debra Carlson and Roslyn Clapperton. These pre-recorded lectures will be released progressively throughout the term on Moodle. It is expected that students will review the weekly content, including the assigned readings and pre-recorded lectures prior to attending the tutorials.

Dr Debra Carlson is a remedial therapist with a Bachelor of Health Science, Bachelor of Science (honours) in physiology, conducted cardiovascular research for her PhD in exercise physiology and has a Graduate Certificate in Tertiary and Adult Education. Roslyn Clapperton has completed a Bachelor of Science (Sports and Exercise) and a Bachelor of Science (honours) in exercise physiology. Roslyn is currently in the final stages of a PhD on skeletal muscle capillarisation in patients with peripheral arterial disease.

As per Australian educational standards, you are expected to commit 150 hours of engagement to your study of this unit. A recommended breakdown of study hours is given below:

- 2-3 hours per week watching lectures and revising the content through study notes.
- 2-3 hours per week attending the weekly tutorials and reflecting on your answers to the weekly study questions.
- 2-3 hours per week revising content from the current week and previous weeks.
- 2-3 hours per week preparing for your assessments or studying for online quizzes and the final examination.

Assessment Tasks

1 Online Quizzes

Assessment Type

Online Quiz(zes)

Task Description

The purpose of the online quizzes is to challenge your knowledge and understanding of the content as you progress through the unit. The two quizzes will be available for a period of one (1) week and must be completed by the closing date listed in the table below.

- 1. There will be two separate online quizzes to assess your knowledge of the unit material.
- 2. You will be allowed two attempts at each quiz. The highest grade you achieve will serve as your final mark for that quiz.
- 3. Your mark from quiz one (1) will contribute 5% and quiz two (2) will contribute 15% to your final grade (2 quizzes 5% + 15% = 20%).
- 4. There is a minimum requirement for the assessment task: 50% of the combined marks for the two guizzes.
- 5. In the absence of an approved extension, there will be no opportunity to complete the task after the assigned

Quiz number	Topic Examined	Time / Date the Quiz Opens	Time / Date the Quiz Closes
1	Week 1, 2, 3	Week 3, Friday, 17:00 AEST	Week 4, Friday, 17:00 AEST
2	Week 4 to 11 inclusive	Week 11, Friday, 17:00 AEST	Week 12, Friday, 17:00 AEST

Number of Quizzes

2

Frequency of Quizzes

Other

Assessment Due Date

All of the quizzes will be available for a period of one (1) week and must be completed by the closing date listed in the table and on the Moodle site.

Return Date to Students

Marks will be available upon completing the assessment task.

Weighting

20%

Minimum mark or grade

50%

Assessment Criteria

Questions will be automatically marked as correct or incorrect. The maximum mark than can be accumulated from the two online guizzes equals 20% of the total unit marks.

Referencing Style

• American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Learning Outcomes Assessed

- Apply knowledge of the musculoskeletal, renal, immune and lymphatic systems, gastrointestinal, integumentary
 and reproductive systems to discuss pathophysiological processes, signs and symptoms of various relevant
 diseases
- Apply knowledge of pharmacokinetics, pharmacodynamics and pharmacotherapeutics to the evaluation of appropriateness of various pharmacological interventions.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

2 Written Assessment - Case Study

Assessment Type

Case Study

Task Description

You will be provided with an authentic clinical case study on the Moodle site in the form of a quiz. You are required to complete the quiz and gather information about the case study to use in the written component of this assessment.

The following information will be made available to you throughout the case study: clinical presentation, patient history, physical examination, pathophysiology, diagnosis and treatment. As you progress through the case study you will be required to answer questions relating to the information provided in the case study to demonstrate your understanding of the underlying pathophysiology and pharmacology of the case study.

This guiz component is worth 5% of the marks allocated for this assessment.

You are then required to complete a written response to four questions related to your case study, in which you will demonstrate your understanding of the links between pathophysiology, risk factors, clinical manifestations, diagnosis and treatment. This assessment requires you to develop the level of understanding required to give evidence based advice within your scope of practice, to manage / educate your patients and close the gaps in healthcare.

This written component is worth 25% of the marks allocated for this assessment.

Guidelines to complete the written response and the marking rubric will be available on the Moodle site.

Case Study Assessment Task	Time / Date the Assessment Task Opens	Time / Date the Assessment Task Closes
Online Quiz	Week 4, Monday, 17:00 AEST	Week 7, Tuesday, 17:00 AEST
Written Component	Week 4, Monday, 17:00 AEST	Week 9, Monday, 17:00 AEST

Assessment Due Date

Week 9 Monday (17 Jan 2022) 5:00 pm AEST

There are two separate due dates as per the table. The case study quiz closes on Tuesday of week 7 and the answers are automatically saved in Moodle. The written response is to be submitted online by Monday of week 9.

Return Date to Students

Week 12 Friday (11 Feb 2022)

The assessment marks and feedback will be available by close of business on Friday of week 12.

Weighting

30%

Minimum mark or grade

50%

Assessment Criteria

The case study assessment equals 30% of your total unit marks.

Your submission will be assessed according to a detailed marking rubric, which will be available on the BIOH12012 Moodle site.

Please note that all late submissions will be penalised 5% per calendar day unless an application for an extension has been approved.

All extension requests must be made through the extension request system on Moodle with the appropriate documentation. Assessments that have been submitted more than 20 calendar days late will not be marked unless an extension request has been approved.

Referencing Style

American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Learning Outcomes Assessed

· Apply knowledge of the musculoskeletal, renal, immune and lymphatic systems, gastrointestinal, integumentary

and reproductive systems to discuss pathophysiological processes, signs and symptoms of various relevant diseases.

- Evaluate appropriate pharmacological interventions in disease processes of the musculoskeletal, renal, immune and lymphatic systems, gastrointestinal, integumentary and reproductive systems.
- Discuss the nurse's professional and legal responsibilities in the quality use of medicines.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Cross Cultural Competence
- Ethical practice

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting

50%

Length

180 minutes

Minimum mark or grade

50%

Exam Conditions

Closed Book.

Materials

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

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 <u>Academic Learning Centre (ALC)</u> 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