MPAT12001 *Medical Pathophysiology*
Term 1 - 2021

Profile information current as at 20/04/2024 02:26 pm

All details in this unit profile for MPAT12001 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

This unit builds upon prerequisite units in human anatomy and physiology to develop a conceptual understanding of disease and dysfunction, with emphasis on the effects of disease upon normal physiological systems. The unit content is presented in a way that fosters (a) an understanding of the widespread effects that dysfunction of a particular organ or system of the human body has upon other systems and (b) the ability to critically evaluate symptoms of dysfunction and predict the outcome. Topics include altered cells and tissues, altered cellular proliferation and differentiation, inflammation and tissue repair, and alterations of human body systems.

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

Prerequisites: ALLH11005 Anatomy and Physiology for Health Professionals 1 OR BMSC11001 Human Body Systems 1 OR BMSC11007 Medical Anatomy and Physiology 1 AND ALLH11004 Anatomy and Physiology for Health Professionals 2 OR BMSC11002 Human Body Systems 2 OR BMSC11008 Medical Anatomy and Physiology 2 This unit is NOT available to students who have only completed BIOH11005 Introductory Anatomy and Physiology AND BIOH11006 Advanced Anatomy and Physiology
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 1 - 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. **Written Assessment**
Weighting: 50%
2. **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 have your say

Feedback
Students found weekly quizzes; tutorials, end of term practice quiz very useful to extend their understanding of unit content.

Recommendation
Continue to update weekly quizzes and the delivery of weekly tutorial sessions to engage with students.

Feedback from have your say

Feedback
Students felt they were well supported through clear and timely communication.

Recommendation
Continue to maintain clear and timely communications with students.

Feedback from reflection by teaching team and feedback from students

Feedback
The multiple pass/fail quizzes are better suited to be ungraded student learning supports rather than a pass/fail assessment task.

Recommendation
Review the assessment strategy.

Feedback from have your say

Feedback
Some students expressed their dissatisfaction on difficulties on how to navigate through the Moodle page.

Recommendation
Provide more help and information regarding how to navigate through the Moodle page and content.

Unit Learning Outcomes

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

1. Argue the physiological consequences, symptoms and effects on health of specific dysfunction of organs and systems
2. Explain how the interdependence of human physiological systems can result in disease of one organ having widespread effects
3. Explain the mechanisms that cause altered cells and tissues, altered cellular proliferation and differentiation, inflammation and the consequences of these changes upon health
4. Describe the major causes, symptoms and consequences of dysfunction of the human body systems.

Alignment of Learning Outcomes, Assessment and Graduate Attributes

— N/A Level ◦ Introductory Level • Intermediate Level • Graduate Level ◦ Professional Level ◦ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Written Assessment - 50%	•	•		
2 - 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 - 50%		•	•	•		•		•	•	
2 - Online Test - 50%	•	•	•							

Textbooks and Resources

Textbooks

MPAT12001

Prescribed

Applied Pathophysiology: A Conceptual Approach to the Mechanisms of Disease
Third edition (2016)
Authors: Braun, CA & Anderson, CM
Lippincott, Williams & Wilkins
Philadelphia , PA , USA
ISBN: 9781496335869
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)
- Cmap Tools to develop concept maps (freeware: http://cmap.ihmc.us/cmaptools/)

Referencing Style

All submissions for this unit must use the referencing style: American Psychological Association 7th Edition (APA 7th edition)
For further information, see the Assessment Tasks.

Teaching Contacts

Saroj Neupane Unit Coordinator
s.neupane@cqu.edu.au
Claire Torres Unit Coordinator
c.torres@cqu.edu.au

Schedule

Week 1 - 08 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Pathophysiology Altered Cells and Tissues	Chapter 1 Chapter 2	Concept Map online selection site opens on Week 1, Monday 9:00am AEST (closes on Week 4, Friday, 5:00 pm AEST)

Week 2 - 15 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Inflammation and Tissue Repair	Chapter 3	

Week 3 - 22 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Cellular Proliferation and Differentiation	Chapter 7	

Week 4 - 29 Mar 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Fluid, Electrolyte Balance Altered Acid-Base Balance	Chapter 8 Chapter 9	Concept Map online submission site opens on Week 4, Friday 5:00 pm AEST (closes on Week 8, Friday, 5:00 pm AEST)

Week 5 - 05 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Neuronal Transmission	Chapter 10	

Vacation Week - 12 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 19 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Somatic and Special Sensory Function	Chapter 12	

Week 7 - 26 Apr 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Hormonal and Metabolic Regulation	Chapter 13	

Week 8 - 03 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Reproductive Function	Chapter 14	**Concept Map** Due: Week 8 Friday (7 May 2021) 5:00 pm AEST

Week 9 - 10 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Ventilation and Diffusion	Chapter 15	

Week 10 - 17 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Perfusion	Chapter 16	

Week 11 - 24 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Nutrition	Chapter 17	Your Assignment will be marked by your lecturer/ Academic staff and grades will be released by Week 11, Friday, 5:00 pm AEST.

Week 12 - 31 May 2021

Module/Topic	Chapter	Events and Submissions/Topic
Altered Elimination	Chapter 18	

Review/Exam Week - 07 Jun 2021

Module/Topic	Chapter	Events and Submissions/Topic

Exam Week - 14 Jun 2021

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

There will be weekly tutorials for this unit, to allow the participation of students enrolled on-campus and via distance. Tutorials are delivered at the North Rockhampton campus and via zoom. These tutorials will also be recorded for the benefit of those students who are unable to attend the live tutorial. During these tutorials, we will work on the case studies and Q&A from different chapters from your prescribed textbook covered through weeks 1-12. You will get the most benefit from the tutorials if you watch the weekly recorded lectures beforehand and attempt the weekly study resources available on your moodle page. You are strongly encouraged to participate in tutorials.
More information regarding the tutorial schedule/location will be available on the Moodle site for students.

Assessment Tasks

1 Concept Map

Assessment Type
Written Assessment

Task Description
Rationale
In the clinical context, health professionals are expected to have in-depth knowledge and understanding of pathophysiology processes and their interrelationship. Population demographics demonstrate increased ageing and concomitant complex morbidities in healthcare. This assessment requires you to construct links between pathophysiology, clinical symptoms, diagnosis and treatment which reflect the level of understanding you will be required to articulate clinically. You must be able to give qualified evidence based advice, within your scope of practice, which serves to educate the patient and close gaps in health care.
Task:
You are required to complete a concept map and written explanation for the topic you have chosen. The details of the Clinical Model Assignment is described on the Moodle site.

The task has three phases as below:

Phase	Period	Task
1. Selection (Setup) Phase	Week 1 Monday 9:00 am AEST - Week 4 Friday 5:00 pm AEST	You must choose a clinical model on the unit Moodle site during the selection phase. Your selection is final, you will not be able to change it. The available clinical models are from your textbook .Once you select your clinical model, you can start working on it, you do not need to wait for the submission phase.
2. Submission Phase	Week 4 Friday 5:00 pm AEST - Week 8 Friday 5:00 pm AEST	You can submit your work anytime during this phase. You can also change and resubmit your work as many times as you want until the due date.
3. Evaluation and Grading Phase	Week 8 Friday 5:00 pm AEST - Week 11 Friday 5:00 pm AEST	Your Assignment will be marked by your lecturer/academic staff and grades will be released by Week 11, Friday, 5:00 pm AEST.

Assessment Due Date
Week 8 Friday (7 May 2021) 5:00 pm AEST

Return Date to Students
Week 11 Friday (28 May 2021)

Weighting
50%

Minimum mark or grade
To pass this unit, you are required to attain a minimum of 50% of the marks available for this assessment.

Assessment Criteria
The concept map assessment task equals 50% of your total unit marks.
Your submission will be assessed according to a detailed marking rubric which is available on the Moodle site.
Please note that all late assessments will be penalized 5% per calendar day unless an application for extension has been approved.
All extension applications must be made through the extension request system on Moodle. 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

Submission Instructions
The submitted final Concept Map must be pdf or MS word format.

Learning Outcomes Assessed

- Argue the physiological consequences, symptoms and effects on health of specific dysfunction of organs and systems
- Explain how the interdependence of human physiological systems can result in disease of one organ having widespread effects

Graduate Attributes

- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Ethical practice
- Social Innovation

2 Online Test

Assessment Type
Online Test

Task Description
An end of term online test will be conducted to assess your knowledge and understanding of the content covered in this unit throughout the term (Weeks 1-12). Details regarding the date, time and structure of the online test will be provided in the Moodle site during the term.

Assessment Due Date

The online test will be conducted during the exam period. The date and time will be made available to students on the Moodle site towards the end of term when the timetable has been created.

Return Date to Students

Marks will be available after certification of grades.

Weighting
50%

Minimum mark or grade
To pass this unit, you are required to attain a minimum of 50% of the marks available for this assessment.

Assessment Criteria
Each question will be allocated a specific number of marks.
Assessment criteria will be based on:
Knowledge of theory
Application of pathophysiological concepts and processes
Correct use of terminology

Referencing Style

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

Submission
Online

Learning Outcomes Assessed

- Argue the physiological consequences, symptoms and effects on health of specific dysfunction of organs and systems
- Explain how the interdependence of human physiological systems can result in disease of one organ having widespread effects

- Explain the mechanisms that cause altered cells and tissues, altered cellular proliferation and differentiation, inflammation and the consequences of these changes upon health
- Describe the major causes, symptoms and consequences of dysfunction of the human body systems.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking

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