

Profile information current as at 02/05/2024 10:58 am

All details in this unit profile for PMSC12004 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.

Corrections

Unit Profile Correction added on 28-04-20

The end of term examination has now been changed. Please refer to the Moodle page for further detail of the assessment.

The residential school for this unit has been postponed and you will need to complete it at a later date. Further details about the residential school will be made available on Moodle in due course.

General Information

Overview

This unit will enable you to complete detailed clinical assessments and examination of cardiac patients, focusing on the use of 12-lead electrocardiograms as a diagnostic tool in emergency care. You will study the pathophysiology, diagnosis, and treatment of a range of cardiac and cardiorespiratory conditions, including acute coronary syndromes, cardiac failure, and cardiac arrest. Practical coronary care skills such as defibrillation and 12 lead ECG acquisition will be taught in this unit. Problem-based case management and clinical interventions are practised in the high-fidelity simulation environment during the residential school, allowing you to contextualise your knowledge of coronary care in preparation for decision-supported thrombolysis in paramedic practice.

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 - PMSC11002 and BMSC11002 Co-requisite - PMSC12001

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 - 2020

- Cairns
- Mixed Mode
- 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).

Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are: Click here to see your <u>Residential School Timetable</u>.

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. Practical Assessment

Weighting: Pass/Fail 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 Unit Evaluation

Feedback

Timely, clear and actionable assessment feedback.

Recommendation

Students appreciated individual feedback on assessment items. Continue to provide individualised feedback on assessments to assist student engagement and learning.

Feedback from Unit Evaluation

Feedback

Clinical discussion sessions prior to scenario practice during residential school.

Recommendation

Feedback highlighted that students enjoyed the ability to review ECGS and the underlying pathophysiology of disease presentation before targeted scenario practice. Continue to use this method for residential schools.

Feedback from Unit Evaluation

Feedback

Study guides, handouts and notes assisted with learning.

Recommendation

ECG guides, weekly study guides and supplementary study notes were made available to assist with learning. Continue to develop and refine these resources.

Unit Learning Outcomes

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

- 1. Apply evidence-based knowledge of pathophysiology to differentiate between a broad range of cardiorespiratory conditions
- 2. Accurately interpret ECGs to diagnose coronary conditions including dysrhythmias and acute coronary syndromes
- 3. Integrate comprehensive knowledge of current evidence-based practice to articulate and/or undertake clinical assessment, skills and interventions in the management of cardiorespiratory conditions.

Justification for this unit is strongly influenced by industry feedback on first CQUniversity graduate paramedics. By increasing the paramedic-specific focus of this unit the graduates will be better prepared for independent on-road practice without additional educational support from the ambulance services.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3		

Assessment Tasks	Learning Outcomes									
			1			2			3	
2 - Practical Assessment - 0%						•			•	
3 - Examination - 50%			•			•			•	
Alignment of Graduate Attributes to Learning Outcomes										
Graduate Attributes				Learning Outcomes						
				:	L		2		3	
1 - Communication							٥		•	
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	Grad	Graduate Attributes								
	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 50%			•	•		•				
2 - Practical Assessment - 0%	•	•	•	•	•			•		
3 - Examination - 50%		•	•	•						

Textbooks and Resources

Textbooks

PMSC12004

Prescribed

Huszar's ECG and 12-Lead Interpretation

5th Edition (2017) Authors: Keith Wesley

Elsevier

St Louis , Missouri , USA ISBN: 978-0-323-35575-9 Binding: Paperback PMSC12004

Supplementary

The 12-Lead ECG in Acute Coronary Syndromes

4th Edition (2019)

Authors: Time Phelan, Barbara Aehlert

Elsevier

St Louis , Missouri , USA ISBN: 978-0-323-49789-3

Binding: Spiral

Additional Textbook Information

Copies are available for purchase at the CQUni Bookshop here: http://bookshop.cqu.edu.au (search on the Unit code)

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 6th Edition (APA 6th edition)</u>

For further information, see the Assessment Tasks.

Teaching Contacts

Andrew Hodgetts Unit Coordinator

a.hodgetts@cgu.edu.au

Schedule

Week 1 - 09 Mar 2020

Module/Topic C

Chapter

Events and Submissions/Topic

Cardiac Anatomy and Physiology

review.

 $\underset{\cdot}{\text{Resuscitation and Defibrillation}}$

review.

Huzar's ECG and 12-Lead Interpretation; Chapter 1, 2, 3, The 12-Lead ECG in Acute Coronary

Syndromes; Chapter 1

Week 2 - 16 Mar 2020		
Module/Topic	Chapter	Events and Submissions/Topic
ECG Basics 12 Lead ECG introduction and acquisition.	Huzar's ECG and 12-Lead Interpretation; Chapter 12 The 12-Lead ECG in Acute Coronary Syndromes; Chapter 2 & 3	Events and Submissions/Topic
Week 3 - 23 Mar 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Systematic Approach to ECG Interpretation Sinus and Atrial rhythms.	Huzar's ECG and 12-Lead Interpretation; Chapter 5, 6, 11	
Week 4 - 30 Mar 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Junctional Rhythms & Atrio-Ventricular Blocks	Huzar's ECG and 12-Lead Interpretation; Chapter 7, 9 & 11	Written Assessment Part A due 5:00pm Friday
Week 5 - 06 Apr 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Ventricular Rhythms & Bundle Branch Blocks	Huzar's ECG and 12-Lead Interpretation; Chapter 8, 11 & 13	
Vacation Week - 13 Apr 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Week 6 - 20 Apr 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Coronary Heart Disease and Acute Coronary Syndromes Part 1.	Huzar's ECG and 12-Lead Interpretation; Chapter 15, 16, 17 The 12-Lead ECG in Acute Coronary Syndromes; Chapter 4	
Week 7 - 27 Apr 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Coronary Heart Disease and Acute Coronary Syndromes Part 2. Heart Failure and CPAP	Huzar's ECG and 12-Lead Interpretation; Chapter 15, 16, 17 The 12-Lead ECG in Acute Coronary Syndromes;	Written Assessment Part B due 5:00pm Friday Written Assessment Due: Week 7
	Chapter 4	Friday (1 May 2020) 5:00 pm AEST
Week 8 - 04 May 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Coronary Heart Disease and Acute Coronary Syndromes Part 3.	Huzar's ECG and 12-Lead Interpretation; Chapter 15, 16, 17 The 12-Lead ECG in Acute Coronary Syndromes; Chapter 4	
Week 9 - 11 May 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Other ECG findings & CCP/ICP/MICA Backup	Huzar's ECG and 12-Lead Interpretation; Chapter 14	

Week 10 - 18 May 2020		
Module/Topic	Chapter	Events and Submissions/Topic
		Residential school assessment day/s
Residential School		Practical Assessment Due: Week 10 Monday (18 May 2020) 11:45 pm AEST
Week 11 - 25 May 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Self directed learning. Exam revision		
Week 12 - 01 Jun 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Exam revision. Self directed learning.		Internal assessment day/s
Exam Week - 15 Jun 2020		
Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

Students enrolled as On-campus will be required to attend compulsory tutorial sessions during the term. Students must nominate their preferred tutorial location and time through MyCQU, under My Timetable in the My Units tab. Tutorial numbers are capped per session, you are not guaranteed a place at your preferred session, but you are guaranteed one session per week.

Students enrolled as Distance will be required to attend a compulsory residential school. Students must nominate their preferred residential school location through MyCQU, under My Timetable in the My Units tab. Numbers at residential schools are capped and a position at your preferred residential school is not guaranteed. Geographical proximity to and/or previous attendance at a residential school location does not guarantee placement at your preferred residential school location.

Attendance at internal tutorials and residential schools is compulsory. If for any reason you cannot attend a tutorial or day at residential school you must provide appropriate evidence, as per Assessment Policy and Procedure, to justify your absence. You will be responsible for making arrangements, with the unit coordinator, to make up for the missed learning and teaching.

Assessment Tasks

1 Written Assessment

Assessment Type

Written Assessment

Task Description

For this assessment, you are required to choose one Clinical Practice Guideline (CPG), from a list available on the Moodle page, and write a critical clinical review, assessing the CPG against current best practice and make recommendations to change and/or improve the CPG.

There are two (2) components to this assessment, Part A: Assessment Proposal & Part B: Critical Clinical Review Part A: Assessment Proposal

You are required to choose one Clinical Practice Guideline, from a list on the Moodle page, and submit a proposal for your critical clinical review (Part B). The proposal should include a brief description of your chosen CPG and specific sections of the CPG you will be analysing. Finally, you must outline where you will source relevant academic literature pertinent to your topic, and you must provide a preliminary reference list of no less than 5 recent peer-reviewed scientific journal articles published after 2010. The word limit for your assessment proposal is 500 words (+/- 10%, not including headings or references).

Part B: Critical Clinical Review

You are required to expand upon your initial assessment proposal and write a critical clinical review on your chosen CPG. You will need to utilise current best practice and peer-reviewed scientific literature to discuss your CPG and make recommendations for changing and/or improving the CPG. You will utilise the current research to formulate your arguments for updating the CPG and how these changes will align with contemporary paramedic practice in Australia. You can make recommendations to change the CPG at an ACP2/ALS or CCP/ICP/MICA clinical level. The word count for this assessment is 1500 words (+/- 10%, not including headings or references).

Assessment Due Date

Week 7 Friday (1 May 2020) 5:00 pm AEST

Part A is due 5pm Friday of Week 4, Part B is due 5pm Friday of Week 7.

Return Date to Students

Week 9 Friday (15 May 2020)

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

Assessment Criteria

Please write your assessment using the following style and format and then upload it to the PMSC12004 Moodle page under Assessment 1: Written Assessment link in the Assessment tab.

Presentation:

Your assessment should be formatted on A4 International Standard paper with margins of 2.54cm. Arial font and size set to 12 point, and line spacing should be set to 1.5.

Only submissions in Microsoft Word format (.doc or .docx) will be accepted.

Format:

Cover page: a cover page must be included for each part of this assessment, in the following format:

- · Assessment name
- · Unit number and name (PMSC12004 Advanced Electrophysiology and Coronary Care)
- · Your Name
- · Student Number
- · Word count (not including cover page, headings and references)
- · Assessment due date (If you have an approved extension this needs to be noted here)

Part A: Assessment Proposal

Part A is worth 10 marks. The word limit is 500 words (+/- 10%, not including cover page, headings or references). The assessment will be marked against a rubric which will be available on the Moodle page. You must provide a reference list of no less than 5 peer-reviewed scientific journal articles published after 2010. You may also reference Australian and/or New Zealand ambulance service guidelines and expert textbooks and websites, as appropriate. The assessment must be referenced in the APA style.

In the absence of an approved extension, a penalty of 5% of the total marks for the assessment will be deducted for each full or part calendar day the assessment is overdue, in accordance with Assessment Policy and Procedure.

Part B: Critical Clinical Review

Part B is worth 40 marks. The word limit is 1500 words (+/- 10%, not including cover page, headings or references). The assessment will be marked against a rubric which will be available on the Moodle page. You must provide a reference list of no less than 10 peer-reviewed scientific journal articles published after 2010.

In the absence of an approved extension, a penalty of 5% of the total marks for the assessment will be deducted for each full or part calendar day the assessment is overdue, in accordance with Assessment Policy and Procedure.

The marks from Part A and Part B will be totalled, adjusted and recorded as a mark out of 100, as per Assessment Policy and Procedure.

The pass mark for this assessment is 50%

Referencing Style

• American Psychological Association 6th Edition (APA 6th edition)

Submission

Online

Learning Outcomes Assessed

 Apply evidence-based knowledge of pathophysiology to differentiate between a broad range of cardiorespiratory conditions

Graduate Attributes

- Critical Thinking
- Information Literacy
- Information Technology Competence

2 Practical Assessment

Assessment Type

Practical Assessment

Task Description

You will be required to attend an assessment day/s at: your nominated campus for Internal students, or at your nominated residential school for Distance students.

Your assessment tasks will consist of three (3) Objective Structured Clinical Examinations (OSCEs). The format of the OSCEs will include a Long Case Management Exercise, a Short Case Management Exercise and a Viva Voce. All assessment tasks align with the learning outcomes for this unit, as described in the Unit Profile.

The Case Management Exercises (CMEs) will take the format of clinical scenarios designed to assess your knowledge and understanding of the material covered throughout the unit by means of a structured, simulated patient interaction. Furthermore, the CMEs are designed to assess your ability to perform a thorough and accurate patient assessment and use this information to formulate a provisional diagnosis. In combination with your patient assessment and provisional diagnosis, you will be required to implement appropriate and timely clinical interventions, procedures and/or skills commensurate with your current scope of practice. Scene management and effective communication skill, including the ability to deliver a clinical handover to a senior clinician (i.e. CCP/ICP/MICA) or other health care professionals, will also be assessed.

The Viva Voce is a verbal or interview style assessment where you will be required to answer a series of questions to demonstrate your knowledge and understanding of the material covered throughout the unit.

Assessment Due Date

Week 10 Monday (18 May 2020) 11:45 pm AEST

Assessments will be carried out during the residential school or during internal assessment days

Return Date to Students

Week 12 Friday (5 June 2020)

Feedback will be provided to students within two weeks after the assessments take place

Weighting

Pass/Fail

Minimum mark or grade

50

Assessment Criteria

The practical assessment is a pass/fail assessment. You must achieve a cumulative mark of greater than 50% across all three (3) OSCEs to pass this assessment.

The Long CME will be worth 40% of the overall marks and the Short CME and Viva Voce are worth 30% each of the overall marks.

Multiple scoring tools/rubrics will be utilised, based on the format of the OSCE. The scoring tools/rubrics for each assessment are validated and reliable.

Assessments will be moderated by the Unit Coordinator and therefore feedback will not be made available at the completion of your assessment day/s or residential school.

Critical errors in this unit will be classed as anything, by act or omission that: causes immediate harm or has the potential to cause harm to yourself, partner, patient or bystanders and/or any procedure/skill or pharmacology administered, that is performed outside your scope of practice.

During any form of assessment, if any of the following critical errors are witnessed the assessment will continue and be moderated. Upon review and confirmation of a critical error, no marks will be awarded for that assessment item. Furthermore, any critical error discovered on review or moderation will result in no marks being awarded for that assessment item.

Critical errors are as follows:

- · Unsafe defibrillation
- · Incorrect joules delivered during defibrillation
- · Defibrillation of a non-shockable rhythm
- \cdot Failure to recognise a cardiac arrest within one (1) minute
- · Failure to defibrillate a shockable rhythm within two (2) minutes
- · Failure to perform a complete drug check, including determining indications and all contraindications
- · Incorrect sharps disposal or unsafe practice with a sharp
- · Performing a skill or procedure outside your scope of practice taught to you in PMSC11002, PMSC12001 or PMSC12004

- · Administering pharmacology outside your scope of practice, or administering an incorrect drug or drug dose
- \cdot Any grossly unsafe practice, as determined by the assessing academic

If you do not understand any of the above, please clarify with your unit coordinator.

Failure to attempt/undertake an assessment task will result in a fail for this assessment.

Referencing Style

• American Psychological Association 6th Edition (APA 6th edition)

Submission

Offline

Learning Outcomes Assessed

- · Accurately interpret ECGs to diagnose coronary conditions including dysrhythmias and acute coronary syndromes
- Integrate comprehensive knowledge of current evidence-based practice to articulate and/or undertake clinical assessment, skills and interventions in the management of cardiorespiratory conditions.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- 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