

Profile information current as at 10/04/2024 09:21 pm

All details in this unit profile for BMSC13006 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

On completion of this unit, students should be able to relate neurophysiology and pathophysiology to advanced clinical tests of neurological function including electroencephalography (EEG), nerve conduction studies (NCS) and evoked potential measurements. Therapeutic interventions for epilepsy and nerve entrapment will be discussed. Students will review all aspects of patient interaction including patient safety, legal and ethical issues and communication.

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-Requisite: BMSC12007 Neurological Physiology and Measurement

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 <u>Assessment Policy and Procedure (Higher Education Coursework)</u>.

Offerings For Term 1 - 2018

- Distance
- 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: 60% 2. **Examination** Weighting: 40%

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 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 Unit evaluation, peer review

Feedback

Assessments requirements to be clearly outlined

Recommendation

Assessment requirements will be reviewed and discussed in detail.

Feedback from Unit evaluation, peer review

Feedback

Scenarios, real life examples and videos to enhance lecture content and prepare students better before they proceed on clinical placement.

Recommendation

Review of lecture content to link theory with practical

Feedback from Unit evaluation, peer review

Feedback

Weekly study tools supported learning.

Recommendation

Continue use of weekly study tools.

Unit Learning Outcomes

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

- 1. Understand patient safety, legal and ethical issues in the clinical neurophysiology environment.
- 2. Explain electrophysiological recording and calibration processes.
- 3. Justify montage selection to maximise diagnostic capability.
- 4. Differentiate normal, artefactual and pathological EEG recordings.
- 5. Evaluate the neurosurgical treatment of epilepsy and utility of intraoperative monitoring in EEG and spinal cord realignment.
- 6. Justify somatosensory, visual and brainstem auditory evoked potential measurement including computer averaging techniques.
- 7. Understand normal and abnormal waveform characteristics in evoked potential measurement, nerve conduction studies and electromyography.

Per NPC990

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes							
Assessment Tasks	Learning Outcomes						
	1	2	3	4	5	6	7
1 - Written Assessment - 60%		•	•	•	•		

	Learning Outcomes								
	1		2	3	4	5		6	7
2 - Examination - 40%	•		•	•	•	•		•	•
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Alignment of Graduate Attributes to Learning C Graduate Attributes	Jutco	me		rnine	. O+	come			
Graduate Attributes	uate Attributes Learning Outcomes								
			1	2	3	4	5	6	7
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 At									
Assessment Tasks	Gradu								
	1 2	2 :	3 4	5	6	7	8	9	10
1 - Written Assessment - 60%	•	•	• •		•				
2 - Examination - 40%	•	•	• •						

Textbooks and Resources

Textbooks

BMSC13006

Prescribed

Handbook on EEG Interpretation

second edition (2014) Authors: Tatum, WO Demos Medical Publishing New York , New York , USA ISBN: 978-1620700167 Binding: Other

BMSC13006

Prescribed

Primer of EEG with a Mini-Atlas

(2003)

Authors: Rowan, J & Tolunsky, E Elsevier Health Sciences ISBN: 9780750674768 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>Harvard (author-date)</u> For further information, see the Assessment Tasks.

Teaching Contacts

Sonia Saluja Unit Coordinator

s.saluja@cqu.edu.au

Schedule

Week 1 - 05 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Fundamentals of Neurophysiology	2 (Course Resource Online)	
Week 2 - 12 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
EEG Technology	6 (Course Resource Online) Chapter 1 (Rowan)	
Week 3 - 19 Mar 2018		

Module/Topic	Chapter	Events and Submissions/Topic
EEG Phenomenology and Activation Procedures	7, 8 (Course Resource Online) Chapter 2 (Rowan)	
Week 4 - 26 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
EEG Phenomenology and Activation Procedures	7, 8 (Course Resource Online)	
Week 5 - 02 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Intraoperative Monitoring Ambulatory and Video Monitoring	10, 14 (Course Resource Online)	
Vacation Week - 09 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Week 6 - 16 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Evoked Potentials	2, 15 (Course Resource Online)	
Week 7 - 23 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Evoked Potentials	15 (Course Resource Online)	
Week 8 - 30 Apr 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Measurement of Nerve Conduction	4 (Course Resource Online)	Written assessment Due: Week 8 Monday (30 Apr 2018) 11:45 pm AEST
Week 9 - 07 May 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Electromyography	5 (Course Resource Online)	
Week 10 - 14 May 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Patient Safety, Legal and Ethical Issues	Moodle resource	
Week 11 - 21 May 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Clinical Neurophysiology	Moodle resource	
Week 12 - 28 May 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Revision		
Review/Exam Week - 04 Jun 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 11 Jun 2018		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Written assessment

Assessment Type

Written Assessment

Task Description

As a clinical measurement scientist you will be responsible for conducting various clinical neurophysiological investigations and interpreting the results. You will be presented with a clinical case scenario of a patient with a neurological condition and will be required to answer a series of questions related to the clinical case. This assessment is designed to assess your understanding of EEG, interpretation of data obtained from electrophysiological recordings and application of knowledge to a clinical environment.

Assessment Due Date

Week 8 Monday (30 Apr 2018) 11:45 pm AEST

Return Date to Students

Week 10 Friday (18 May 2018)

Weighting

60%

Minimum mark or grade

In order to pass this unit, you must achieve 50% of the available marks for this assessment item

Assessment Criteria

The assessment will be based on the criteria of knowledge of theory, rationalisation and justification of elements of knowledge, interpretation of data, presentation of information and referencing. A detailed marking rubric will be available on Moodle.

Referencing Style

• Harvard (author-date)

Submission

Online

Learning Outcomes Assessed

- Explain electrophysiological recording and calibration processes.
- Justify montage selection to maximise diagnostic capability.
- Differentiate normal, artefactual and pathological EEG recordings.
- Evaluate the neurosurgical treatment of epilepsy and utility of intraoperative monitoring in EEG and spinal cord realignment.

Graduate Attributes

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

Examination

Outline

Complete an invigilated examination.

Data

During the examination period at a CQUniversity examination centre.

Weighting

40%

Length

180 minutes

Minimum mark or grade

In order to pass this unit, you must achieve 50% of the available marks for the exam.

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