

In Progress

Please note that this Unit Profile is still in progress. The content below is subject to change.



BMSC13002 *Advanced Clinical Biochemistry*

Term 2 - 2024

Profile information current as at 16/05/2024 01:19 pm

All details in this unit profile for BMSC13002 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, you will be able to evaluate the evidence base for biochemical tests used in the diagnosis and management of diseases in the major organ systems of the body. Problem solving and decision making skills will be developed through use of authentic case studies. Skill development in instrument calibration, best practice measurement, interpretation of test results and test quality control monitoring will occur through practical exercises. You will be required to attend a residential school at the biochemistry laboratory on the Rockhampton campus.

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: BMSC12010 Clinical Biochemistry and (BUSN11016 Introduction to Study and Professional Practice or BMSC11003 Introduction to Medical Sciences).

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 2 - 2024

- Mixed Mode
- 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).

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. **Case Study**

Weighting: 20%

2. **Laboratory/Practical**

Weighting: Pass/Fail

3. **Practical Assessment**

Weighting: 30%

4. **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 [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

Feedback

Heavy Content

Recommendation

It's essential to note that the standardized content has remained consistent with previous years and adheres to established guidelines, ensuring alignment with accreditation standards, therefore, it can only be changed if required necessary. While I acknowledge the need for simplicity and increased clarity, there are limitations in significantly reducing the actual content due to accreditation requirements. Nevertheless, our teaching team is committed to making the content more plausible and approachable without compromising the necessary depth and standards. We will explore ways to enhance the clarity and presentation of the material to facilitate better understanding.

Feedback from Student Feedback

Feedback

Use of guest lecturers

Recommendation

There were concerns about the use of guest lecturers in the context of this being an unactioned item from students' previous feedback. Upon my recent arrival at the university, joining mid-year (when the term had already been started), due to staff movements and the departure of the previous lecturer, the college decided to utilize previously recorded guest lectures from the previous term set by my predecessor for continuity. In recognition of the workload associated with this transition, a new lecturer was specifically tasked to focus on delivering pre-designed tutorials in accordance with the study questions. It is understandable that this arrangement may not have been clearly communicated to all students, leading to concerns about the use of guest lecturers. This feedback highlights the importance of communication, and I am committed to improve transparency in conveying such arrangements in the future. I believe that open and regular communication is vital, especially during periods of staff movements or transitions.

Feedback from Student Feedback and self reflection

Feedback

Anxiety over invigilated exam

Recommendation

It's important to note that the university has historically employed invigilated exams as an exam format in line with accreditation standards. The online exams were implemented temporarily during the COVID situation. This year, the decision was made to return to invigilated exams as the primary assessment method. I understand that this change may induce anxiety, as students are transitioning back to this format. To address these concerns, I am committed to providing support by orientating students to the invigilated exam process. This will include detailed guidance, and information sessions to help them feel comfortable and prepared for the upcoming exams

Unit Learning Outcomes

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

1. Explain the various processes involved in biochemical method evaluation, interpretation and development
2. Explore the limitations of laboratory procedures, regulatory aspects including external quality assurance and accreditation bodies
3. Describe the rationale and clinical correlation of specialised biochemical tests used in the detection and monitoring of processes affecting the major organ systems
4. Demonstrate skills in the use of biochemical instrumentation, including specimen handling and test processing in automated systems and institution of appropriate corrective action as required in response to errors in automated instrumentation function
5. Evaluate biochemical clinical cases to derive a provisional diagnosis.

Alignment of Learning Outcomes, Assessment and Graduate Attributes

 N/A Level	 Introductory Level	 Intermediate Level	 Graduate Level	 Professional Level	 Advanced Level
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Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Case Study - 20%			•		•
2 - Laboratory/Practical - 0%				•	
3 - Practical Assessment - 30%		•			•
4 - Examination - 50%	•	•	•		•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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					

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 17 June 2024

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.