BMSC14003 *Integrated Pathology 2*
Term 2 - 2026

Profile information current as at 12/11/2026 10:42 am

All details in this unit profile for BMSC14003 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 integrated pathology unit builds on the knowledge, skill, technical and cognitive ability developed during Integrated Pathology 1. You will evaluate laboratory-based information to diagnose complex infectious diseases through application of knowledge of multiple clinical disciplines within medical laboratory science. You will apply your advanced-level knowledge of clinical biochemistry, haematology, histopathology, transfusion science, immunology, molecular pathology and quality management to 'real life' clinical scenarios and complex case studies focused on infectious diseases. Use of case studies will integrate advanced-level knowledge of the aetiology, pathophysiology, and investigation of infectious diseases that significantly affect the morbidity, mortality and economics of healthcare. At residential school you will perform laboratory tests using advanced methodology and instrumentation. This will further develop your analytical, evaluative and communication skills.

Details
Career Level: *Undergraduate*
Unit Level: *Level 4*
Credit Points: *12*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.25*

Pre-requisites or Co-requisites
Prerequisite: BMSC14001 Integrated Pathology 1 AND BMSC13009 Immunology OR BMSC13023 Applied Immunology AND BMSC13001 Advanced Haematology AND BMSC13002 Advanced Clinical Biochemistry AND BMSC13011 Advanced Transfusion Science OR BMSC13015 Molecular Targeted Therapies AND BMSC13010 Pharmacology OR BMSC13020 Drug Discovery and Clinical Trials AND BMSC13003 Medical Microbiology 2 AND BMSC13016 Advanced Histopathology and Cytopathology
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 - 2026
- 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).

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 12-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 25 hours of study per week, making a total of 300 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. Residential School Practical (Practical Assessment)
Weighting: 35%
2. Laboratory Diagnostic Review (Case Study)
Weighting: 25%
3. Examination (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 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
- Academic Progression Policy and Procedure
- Student Refund and Credit Balance Policy and Procedure
- 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 Personal reflection & student feedback

Feedback
Add more questions to section A of the exam to allow students choice in which ten questions to answer in a similar manner to sections B & C.

Recommendation
This will be implemented in T2 2026.

Feedback from Student feedback & personal reflection

Feedback
Some instructions in the laboratory manual used in the residential school should be reviewed for clarity.

Recommendation
The practical manual will be reviewed prior to commencement of T2 2026.

Unit Learning Outcomes

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

1. Differentiate the aetiology, pathophysiology and clinical investigation of complex medical conditions with a focus on infectious disease
2. Perform medical laboratory tests demonstrating advanced methodology and instrumentation
3. Evaluate pathological mechanisms and analytical techniques in the laboratory-based diagnosis of infectious disease
4. Evaluate data and present information concerning pathological issues in an ethical and scientific context.

The learning outcomes achieved are linked to the objectives of the accrediting body, Australian Institute of Medical Scientists (AIMS).

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 - Case Study - 25%	•		•	•
2 - Practical Assessment - 35%		•	•	
3 - Examination - 40%	•			•

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 - First Nations Knowledges				

Textbooks and Resources

Textbooks

There are no required textbooks.

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Zoom (both microphone and webcam capability)

Referencing Style

All submissions for this unit must use the referencing styles below:

- Harvard (author-date)
- Vancouver

For further information, see the Assessment Tasks.

Teaching Contacts

William Deasy Unit Coordinator
w.deasy@cqu.edu.au

Schedule

Week 1 - 13 Jul 2026

Module/Topic	Chapter	Events and Submissions/Topic
Cholera	A weekly reading list will be provided on the Moodle page.	Overview tutorial

Week 2 - 20 Jul 2026

Module/Topic	Chapter	Events and Submissions/Topic
Staphylococcal toxic shock syndrome	A weekly reading list will be provided on the Moodle page.	Tutorial covering Week 1

Week 3 - 27 Jul 2026

Module/Topic	Chapter	Events and Submissions/Topic
Post Streptococcal Glomerulonephritis (PSGN)	A weekly reading list will be provided on the Moodle page.	Tutorial covering Week 2

Week 4 - 03 Aug 2026

Module/Topic	Chapter	Events and Submissions/Topic
Systemic cryptococcosis	A weekly reading list will be provided on the Moodle page.	Tutorial covering Week 3

Week 5 - 10 Aug 2026

Module/Topic	Chapter	Events and Submissions/Topic
Malaria	A weekly reading list will be provided on the Moodle page.	Tutorial covering Week 4 Compulsory Residential School: 11/08/2026 to 14/08/26

Week 6 - 17 Aug 2026

Module/Topic	Chapter	Events and Submissions/Topic

Human Immunodeficiency Virus / Acquired Immunodeficiency Syndrome (HIV/AIDS)	A weekly reading list will be provided on the Moodle page.	Tutorial covering Week 5 Residential School Practical Due: Week 6 Friday (21 Aug 2026) 5:00 pm AEST

Vacation Week - 24 Aug 2026

Module/Topic	Chapter	Events and Submissions/Topic
No Lecture	N/A	Self-directed revision

Week 7 - 31 Aug 2026

Module/Topic	Chapter	Events and Submissions/Topic
Coronavirus disease 2019 (COVID-19)	A weekly reading list will be provided on the Moodle page.	Tutorial covering Week 6

Week 8 - 07 Sep 2026

Module/Topic	Chapter	Events and Submissions/Topic
Disseminated strongyloidiasis	A weekly reading list will be provided on the Moodle page.	Tutorial covering Week 7

Week 9 - 14 Sep 2026

Module/Topic	Chapter	Events and Submissions/Topic
Filariasis	A weekly reading list will be provided on the Moodle page.	Tutorial covering Week 8 Laboratory Diagnostic Review Due: Week 9 Thursday (17 Sept 2026) 5:00 pm AEST

Week 10 - 21 Sep 2026

Module/Topic	Chapter	Events and Submissions/Topic
Tuberculosis (TB)	A weekly reading list will be provided on the Moodle page.	Tutorial covering Week 9

Week 11 - 28 Sep 2026

Module/Topic	Chapter	Events and Submissions/Topic
Revision	N/A	Tutorial covering Week 10

Week 12 - 05 Oct 2026

Module/Topic	Chapter	Events and Submissions/Topic
Revision	N/A	N/A

Exam Week - 12 Oct 2026

Module/Topic	Chapter	Events and Submissions/Topic
		An invigilated examination will be scheduled during the allocated CQUniversity examination period. The exact date will be communicated once scheduled.

Vacation/Exam Week - 19 Oct 2026

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

Your unit coordinator for BMSC14003 is Dr William Deasy. You can contact him using the Unit's Moodle forums or alternatively you can contact him via email (w.deasy@cqu.edu.au) or via phone (07 4930 6365). The forums for this unit are continuously monitored and you can expect a response within 48 hours of posting your question.
This unit has a compulsory residential school.

Assessment Tasks

1 Practical Assessment

Assessment Title
Residential School Practical

Task Description
The Residential School is an opportunity to learn and perform a range of interdisciplinary clinical diagnostic procedures and compliment the theoretical knowledge of integrated pathology.
The residential school will provide valuable practical experience in techniques currently performed in medical laboratories.
The laboratory practical tasks will comprise of laboratory-based exercises which will be completed during the four (4) day Residential School.
The exercises will be described in the laboratory workbook and will involve completion of laboratory exercises, calculation and presentation of results.
A detailed rubric of assessment criteria for laboratory manual will be available on the unit Moodle page.

Level of GenAI use allowed:
Level 1: You must not use AI at any point during the assessment. You must demonstrate your core skills and knowledge.
The 72-hour grace period does not apply to this assessment.

Assessment Due Date
Week 6 Friday (21 Aug 2026) 5:00 pm AEST
Online submission via the Moodle

Return Date to Students
Week 8 Friday (11 Sept 2026)
Feedback will be provided via Moodle

Weighting
35%

Minimum mark or grade
50%

Assessment Criteria
Assessment of the laboratory manual will be based on presentation of results of laboratory exercises including calculations, and answers to questions related to the cases studied.
Answers provided in the laboratory manual must be clearly presented and legible.

Referencing Style
Harvard (author-date)
Vancouver

Submission
Online

Submission Instructions
Submission via Moodle

Learning Outcomes Assessed
- Perform medical laboratory tests demonstrating advanced methodology and instrumentation
- Evaluate pathological mechanisms and analytical techniques in the laboratory-based diagnosis of infectious disease

2 Case Study

Assessment Title
Laboratory Diagnostic Review

Task Description
Part A
You will choose a disease and describe provide an introduction for the disease including details of pathogenesis and treatment. You will then detail the various laboratory-based tests that are performed on a patient's sample when investigating the disease or monitoring treatment.
The disease may be one that we are studying in this unit or another disease if you wish.

Write a 2500-word essay, supported by up to ten (10) references outlining the advances in the understanding of the disease and the laboratory-based diagnosis.

Part B
Review and critique in detail two (2) scientific papers which have contributed to advanced knowledge associated with pathogenesis and diagnosis.

Your critical appraisal of a major scientific paper should include a summary of the outcomes of the described research, and how these findings were a significant advance in either pathogenesis/diagnosis.
What methodology was used and what further developments have occurred based on the original paper?
The paper critique is expected to be concise, between 750 and 1000 words.

Level of GenAI use allowed:
Level 3: You may use AI to assist with specific tasks such as drafting text, refining and evaluating your work. You must critically evaluate and modify any AI-generated content you use.

Assessment Due Date
Week 9 Thursday (17 Sept 2026) 5:00 pm AEST
Submissions via Moodle

Return Date to Students
Week 11 Thursday (1 Oct 2026)
Feedback will be via Moodle and Turnitin Feedback Studio

Weighting
25%

Minimum mark or grade
50%

Assessment Criteria
A total of 100 marks are available broken down as follows:

- 60 marks for Part A, the disease review.
- 40 marks for Part B, the scientific paper critiques (20 marks per paper).

A detailed marking rubric will be available on the Moodle site.

Referencing Style
Harvard (author-date)
Vancouver

Submission
Online

Submission Instructions
Submission via Moodle.

Learning Outcomes Assessed

- Differentiate the aetiology, pathophysiology and clinical investigation of complex medical conditions with a focus on infectious disease
- Evaluate pathological mechanisms and analytical techniques in the laboratory-based diagnosis of infectious disease
- Evaluate data and present information concerning pathological issues in an ethical and scientific context.

Examination

Outline
Complete an invigilated examination.

Date
During the examination period at a CQUniversity examination centre.

Weighting
40%

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 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