



BMSC13003 *Advanced Clinical Microbiology*

Term 2 - 2017

Profile information current as at 08/05/2024 07:13 pm

All details in this unit profile for BMSC13003 have been officially approved by CQU University 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 04-07-17

Enter your Correction details

in the section for assessment tasks, 2 written assessment, the text '**written assessment**' associated with the assessment title, should be changed to

Prepare a written review article on a chosen pathogens characteristics and specific pathology

General Information

Overview

On completion of this unit, you will be able to identify and discuss the clinical significance of viruses, prions, fungi and parasites causing human disease. You will investigate the morphological characteristics, epidemiology, laboratory identification of these microorganisms and will be able to debate causes of mycological, parasitic and viral infectious diseases. You will discuss the life cycle of important parasites and their relevance to disease control. You will be able to interpret basic serological tests for the detection of human pathogenic viruses.

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

Prerequisite: MBIO19012 Microbiology Prerequisite: BMSC12011 Clinical Microbiology Prerequisite: BIOL12106 Molecular Biology

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 - 2017

- 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).

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. **Practical Assessment**

Weighting: 30%

2. **Written Assessment**

Weighting: 25%

3. **Examination**

Weighting: 45%

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 report

Feedback

Positive student response to the two day residential school.

Recommendation

The residential school will be re-evaluated in response to student feedback, with regard to both content and workload, and how the learning experience may be improved in order to support student attainment of learning outcomes.

Unit Learning Outcomes

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

1. Describe the clinical significance and laboratory detection of the principal viral, prion, fungal, and parasitic diseases of humans.
2. Appraise the use of molecular techniques for identifying viruses, prions, fungi and parasites causing human disease
3. Evaluate and interpret different testing methods used in the detection and monitoring of infectious disease serology.
4. Evaluate microbiological quality control processes in relation to prions, viruses, fungi and parasites causing human disease and institute corrective action as required.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Practical Assessment - 30%	•		•	•
2 - Written Assessment - 25%		•		•
3 - Examination - 45%	•	•	•	

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Communication	•	•	•	•
2 - Problem Solving	•	•	•	•

Graduate Attributes	Learning Outcomes			
	1	2	3	4
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 - Practical Assessment - 30%		•	•	•	•					
2 - Written Assessment - 25%	•			•		•				
3 - Examination - 45%	•	•	•	•				•		

Textbooks and Resources

Textbooks

BMSC13003

Prescribed

Bailey & Scott's Diagnostic Microbiology

Edition: 13th (2013)

Authors: Patricia Tille

Elsevier Mosby

St Louis , Missouri , United States of America

ISBN: ISBN-13: 978-0323083300 ISBN-10: 0323083307

Binding: Hardcover

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Webcam and microphone

Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)
For further information, see the Assessment Tasks.

Teaching Contacts

Padraig Strappe Unit Coordinator
p.strappe@cqu.edu.au

Schedule

Week 1 - 10 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Antimicrobial resistance, "superbugs" and health care associated infections/Infection control	Chapters 11, 12, 14, 20 and 79	

Week 2 - 17 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Mycological methods and terminology/ Pathogenic yeasts and Pneumocystis	Chapters 59, 62, 63 and 64	

Week 3 - 24 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Hyaline moulds, including Dermatophytes, Zygomycetes and opportunistic mycoses	Chapter 60	

Week 4 - 31 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Dematiaceous moulds	Chapters 61	Practical Assessment Due: Week 4 Friday (4 Aug 2017) 11:45 pm AEST

Week 5 - 07 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Parasitological methods & Protozoa	Chapters 47, 48 and 50	

Vacation Week - 14 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Independent study week		

Week 6 - 21 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Nematodes and cestodes	Chapters 47, 51, 52, 54 and 55	

Week 7 - 28 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Trematodes & arthropods	Chapters 47, 55, 56, 57 and 58	

Week 8 - 04 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Hepatitis, EBV and other viral serology	Chapters 10 and 66	Written Assessment Due: Week 8 Friday (8 Sept 2017) 11:45 pm AEST

Week 9 - 11 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
herpes viruses, measles, mumps, rubella, adenovirus, rotavirus, norovirus and other viruses	Chapters 65 and 66	
Week 10 - 18 Sep 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Arboviruses, filoviruses, rabies and prion diseases		
Week 11 - 25 Sep 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Residential School: 1st-3rd October.	All chapters	
Week 12 - 02 Oct 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Review of ongoing cases	All chapters	
Review/Exam Week - 09 Oct 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 16 Oct 2017		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Practical Assessment

Assessment Type

Practical Assessment

Task Description

No Assessment Task Description

Assessment Due Date

Week 4 Friday (4 Aug 2017) 11:45 pm AEST

Return Date to Students

Monday (21 Aug 2017)

Weighting

30%

Assessment Criteria

No Assessment Criteria

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Learning Outcomes Assessed

- Describe the clinical significance and laboratory detection of the principal viral, prion, fungal, and parasitic diseases of humans.
- Evaluate and interpret different testing methods used in the detection and monitoring of infectious disease serology.
- Evaluate microbiological quality control processes in relation to prions, viruses, fungi and parasites causing human disease and institute corrective action as required.

Graduate Attributes

- Problem Solving

- Critical Thinking
- Information Literacy
- Team Work

2 Written Assessment

Assessment Type

Written Assessment

Task Description

No Assessment Task Description

Assessment Due Date

Week 8 Friday (8 Sept 2017) 11:45 pm AEST

Return Date to Students

Monday (18 Sept 2017)

Weighting

25%

Assessment Criteria

No Assessment Criteria

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Learning Outcomes Assessed

- Appraise the use of molecular techniques for identifying viruses, prions, fungi and parasites causing human disease
- Evaluate microbiological quality control processes in relation to prions, viruses, fungi and parasites causing human disease and institute corrective action as required.

Graduate Attributes

- Communication
- Information Literacy
- Information Technology Competence

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting

45%

Length

180 minutes

Minimum mark or grade

50% To pass this unit

Exam Conditions

Closed Book.

Materials

No calculators permitted

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