

Profile information current as at 11/04/2024 10:00 am

All details in this unit profile for MBIO12013 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 unit provides students with essential knowledge on the role of microorganisms and infection control within the context of health care. The unit will also cover host defences and the immune response, including the host-pathogen relationship and the mechanisms of microbial disease. Microbial epidemiology will be examined, with emphasis on worldwide discipline-specific examples.

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

Prereq: BMSC11002 Human Body Systems 2 or BIOH11005 Introductory Anatomy and Physiology or ALLH11004 Anatomy and Physiology for Health Professionals 2. Condition: Be enrolled in any of the following courses: CG95, CC30, CB77, CB29, CB66, CB70, CB86 or CQ23. This unit is incompatible with MBIO19012 Microbiology. 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 - 2018

Distance

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. Online Quiz(zes)

Weighting: 20%

2. Written Assessment

Weighting: 30% 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 Student feedback.

Feedback

Students were annoyed by the distractions caused by a couple of individuals in lectures.

Recommendation

There were a couple of students who were disruptive in lectures. I will be more stern with similar individuals in future.

Feedback from Student feedback & self-reflection.

Feedback

A few students felt that there was too much content that was not relevant to them.

Recommendation

It is difficult to keep things relevant when teaching students from diverse discipline areas. However, I will look into restructuring the unit to improve this area.

Feedback from Student feedback.

Feedback

Some students felt that the assessments could have been better timed to avoid their residential schools.

Recommendation

Again, with students from different disciplines and with practicals / residential schools at different times, this is difficult to do. However, I will look into modifying the assessment due dates to fit in with the majority of students' other assessment tasks.

Unit Learning Outcomes

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

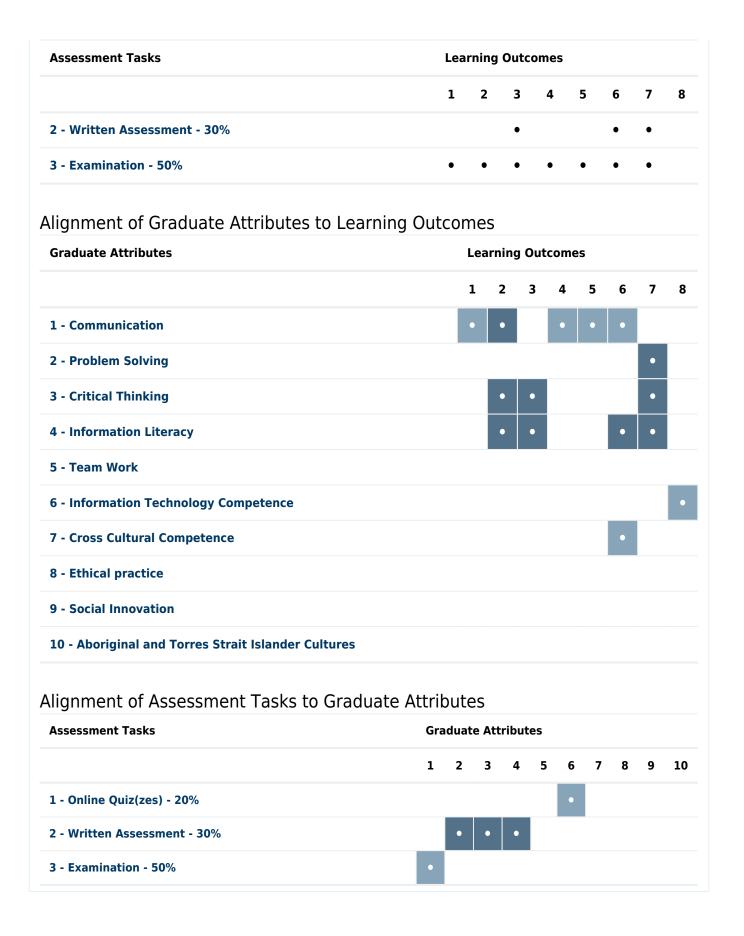
- 1. Describe the relationship between form and function in the major groups of microorganisms.
- 2. Discuss the role of microorganisms in relation to human health, with particular reference to the normal microbiota and exogenous microorganisms.
- 3. Describe the mechanisms of microbial diseases, including host-microbe interactions and disease transmission.
- 4. Explain the fundamental principles of innate and adaptive (specific) immunity
- 5. Describe the major cells and tissues of the immune system and state their function in the immune response.
- 6. Apply the fundamental principles of microbial epidemiology to current issues relating to human health.
- 7. Interpret the principles of sterilisation, disinfection, and infection control in relation to the student's discipline area.
- 8. Interpret the results of laboratory experiments in the context of the underlying microbiological principles.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

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Assessment Tasks	Learning Outcomes		
	1 2 3 4 5 6 7 8		
1 - Online Quiz(zes) - 20%	• • •		



Textbooks and Resources

Textbooks

MBIO12013

Prescribed

Microbiology and infection control for health professionals

Edition: 6th (2015) Authors: Lee & Bishop

Pearson

Frenchs Forest, NSW, Australia

ISBN: 9781442549128 Binding: Other

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 styles below:

- American Psychological Association 6th Edition (APA 6th edition)
- Harvard (author-date)

For further information, see the Assessment Tasks.

Teaching Contacts

Sandrine Makiela Unit Coordinator s.makiela@cqu.edu.au

Schedule

Week 1 - 05 Mar 2018		
	Chantor	Events and Submissions/Tenis
Module/Topic	Chapter	Events and Submissions/Topic
Introduction, bacteria.	Lee & Bishop, ch 1 & 3.	
Week 2 - 12 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Bacteria and viruses.	Lee & Bishop, ch 3 & 5.	
Week 3 - 19 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Fungi, protozoans and parasites.	Lee & Bishop, ch 6.	
Week 4 - 26 Mar 2018		
Module/Topic	Chapter	Events and Submissions/Topic
Microbial growth, replication and genetics.	Lee & Bishop, ch 2-6.	

Module/Topic Lee & Bishop, ch 9.	Week 5 - 02 Apr 2018		
Vacation Week - 09 Apr 2018 Module/Topic Chapter Events and Submissions/Topic Week 6 - 16 Apr 2018 Module/Topic Chapter Events and Submissions/Topic Principles of disease. Lee & Bishop, ch 7, 8 & 10. Principles of disease. Week 7 - 23 Apr 2018 Module/Topic Chapter Events and Submissions/Topic Principles of disease. Lee & Bishop, ch 7, 8 & 10. Quiz 1 opens Monday. Week 8 - 30 Apr 2018 Module/Topic Chapter Events and Submissions/Topic Principles of disease. Lee & Bishop, ch 7, 8 & 10. Quiz 1 opens Monday. Week 8 - 30 Apr 2018 Module/Topic Chapter Events and Submissions/Topic Control of growth, infection control. Lee & Bishop, ch 11, 12. Week 9 - 07 May 2018 Module/Topic Chapter Events and Submissions/Topic Practicals and virtual laboratory: Part 1 Quiz 1 due Tuesday 8th May, 5pm AEST. Week 10 - 14 May 2018 Module/Topic Chapter Events and Submissions/Topic Common diseases. Lee & Bishop, ch 15-21. Week 11 - 21 May 2018 Module/Topic Chapter Events and Submissions/Topic Issues in public health. Lee & Bishop, ch 13, 14. Case Study Analysis Due: Week 11 Monday (21 May 2018) 9:00 am AEST Week 12 - 28 May 2018 Module/Topic Chapter Events and Submissions/Topic Practicals and virtual laboratory: Part 2 Quizzes 2-4 due Monday 28th May, 5pm AEST. Review/Exam Week - 04 Jun 2018 Module/Topic Chapter Events and Submissions/Topic Practicals and virtual laboratory: Part 2 Quizzes 2-4 due Monday 28th May, 5pm AEST.	Module/Topic	Chapter	Events and Submissions/Topic
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Term Specific Information

This unit is being offered in this term as a once off special offering. As such, the lectures are the recorded lectures from 2017.

There will be live tutorials via Zoom. Please see the unit Moodle site for details.

For part 1 of your Practicals and Virtual Laboratory you will require a Microbiology Kit. These are available <u>free</u> from the CQUniversity Bookshop. If you are enrolled as an on-campus student you will need to pick one up from your campus (location details given on Moodle site). Distance students will have one sent to your address as recorded on MyCentre. If you need it sent to a different address, please contact the unit coordinator ASAP. Your kit should arrive by the end of week 2. If not, please contact the CQUniversity Bookshop via email (bookshop-customerservice@cqu.edu.au) to follow up on your kit.

Assessment Tasks

1 Practicals and Virtual Laboratory

Assessment Type

Online Quiz(zes)

Task Description

You will be required to complete practical exercises, both in person at home (Part 1) and virtually (Part 2), and complete four online quizzes.

For Part 1, you will need to obtain the Microbiology Kit (see Term Specific Information section) and perform a series of tasks (5 in total) followed by a quiz. Details of these tasks, including instructional videos, will be available on the Moodle site. For each task, you will be required to upload pictures of your work and upload your data into Moodle. The unit coordinator will collate the class data, and you will then do an online quiz based on the class data (Quiz 1). The quiz will open on the Monday of Week 7.

For Part 2, you will carry out a series of virtual laboratory exercises on the Moodle site. Assessment of this part will be via 3 online quizzes (Quizzes 2-4). The quizzes consist of multiple choice questions and will open on the Monday of Week 9.

Number of Quizzes

4

Frequency of Quizzes

Assessment Due Date

Part 1 - upload of pictures and data on the Monday of week 6 at 5pm AEST, Quiz 1 due Tuesday of week 9 at 5pm AEST.

Part 2 - Quizzes 2-4 due on the Monday of week 12 at 5pm AEST.

Return Date to Students

Part 1 (pictures and data) at the beginning of week 8, Part 1 & 2 quizzes: Moodle should return your results within half an hour.

Weighting

20%

Minimum mark or grade

50%

Assessment Criteria

This assessment piece is worth 20% of the total course marks, with 10% allocated to Part 1 and 10% to Part 2. Part 1 consists of 5 separate tasks and a quiz. For each task, you must upload one picture of your work and the required data. Marks will be awarded for the reporting of valid data and completion of the task (1% each for a total of 5%). The quiz on the class data is worth the other 5%.

Part 2 is assessed via online quiz questions (10%), and the final mark is the total of the three quiz marks.

Referencing Style

- American Psychological Association 6th Edition (APA 6th edition)
- Harvard (author-date)

Submission

Online

Learning Outcomes Assessed

- Discuss the role of microorganisms in relation to human health, with particular reference to the normal microbiota and exogenous microorganisms.
- Interpret the principles of sterilisation, disinfection, and infection control in relation to the student's discipline area.
- Interpret the results of laboratory experiments in the context of the underlying microbiological principles.

Graduate Attributes

• Information Technology Competence

2 Case Study Analysis

Assessment Type

Written Assessment

Task Description

You will be provided with video footage of a workplace situation relevant to your future workplace. There will be videos in several discipline areas for you to choose from (available from the unit Moodle site) and you will each need to choose one video only for this assessment. The videos will depict typical workplace occurrences but with flaws in infection control procedures. Using Moodle forums, chat rooms, or other means, you may discuss the footage with other students and identify the flaws in infection control procedures.

The case study analysis (report) will be done individually. You will be limited to a maximum of 5 incidents in your reports. Since there will be more than 5 incidents on the videos, you will be asked to report on those which you believe are the most important, and will be asked to justify your decision. The report will need to discuss how each incident may transmit and cause disease, including the potential host response, and reflect on the infection control measures needed to rectify the situation. This will need to be substantiated with evidence from the literature.

After the 5 incidents, you will need to critically evaluate information from the literature on the spread of infection in your future workplace. For example, you would include any reported disease outbreaks and your future workplace's current infection control policies and procedures. This information, as well as the infection control measures suggested from the 5 incidents, will then be used to formulate a final recommendation for the report.

As this assessment will commence at the beginning of term, you will be encouraged to revisit the video as more unit material is covered in lectures. Detailed guidelines for this task will be available from the unit Moodle site. Suggested length: 2000 - 2500 words.

Assessment Due Date

Week 11 Monday (21 May 2018) 9:00 am AEST

Return Date to Students

Review/Exam Week Monday (4 June 2018)

Weighting

30%

Minimum mark or grade

40%

Assessment Criteria

The complete assessment marking rubrics will be available on the Moodle site and will be based on the following criteria:

- Identification of problems (20%)
- Discussion of disease potential (10%)
- Recommended infection control solution and relevance to future workplace (30%)
- Application of critical analysis (10%)
- Presentation (10%)
- Clarity of expression (10%)
- Referencing (10%)

Referencing Style

- American Psychological Association 6th Edition (APA 6th edition)
- Harvard (author-date)

Submission

Online

Learning Outcomes Assessed

• Describe the mechanisms of microbial diseases, including host-microbe interactions and disease transmission.

- Apply the fundamental principles of microbial epidemiology to current issues relating to human health.
- Interpret the principles of sterilisation, disinfection, and infection control in relation to the student's discipline area.

Graduate Attributes

- Problem Solving
- Critical Thinking
- Information Literacy

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting

50%

Length

120 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). No calculators permitted

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