



LMED29010 Anatomical Pathology 2

Term 2 - 2024

Profile information current as at 05/11/2024 04:17 pm

All details in this unit profile for LMED29010 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.

General Information

Overview

In this unit you will build upon your knowledge of normal and abnormal histopathological features for a range of tissues along with normal and abnormal cytopathological features of a range of cells. The relationship between cellular injury, immune response, tumour formation, infection and pathological dysregulation of tissue organisation will be explored in relation to clinical cases you may encounter. You will develop the knowledge and skill to advise on the investigation of disease and recommend further investigations that will include the latest techniques in immunohistochemistry and fluorescence imaging and molecular pathology.

Details

Career Level: *Postgraduate*

Unit Level: *Level 9*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Prerequisites: LMED29002 Anatomical Pathology 1

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

- Melbourne
- Online
- Rockhampton
- Sydney

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 Postgraduate 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: 25%

2. **Written Assessment**

Weighting: 25%

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 [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](#).

Unit Learning Outcomes

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

1. Categorise complex histopathological and cytopathological specimens and discriminate artefactual morphology
2. Analyse the role of histopathology in the detection of tissue inflammation and malignancy during the onset and progression of human disease
3. Investigate the roles of supervision and management of the anatomical pathology laboratory
4. Diagnose normal and non complex conditions using the cytological process
5. Evaluate existing and emerging specialised fixation techniques and new molecular and hybridisation techniques in histology and cytology.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Online Quiz(zes) - 25%	•			•	
2 - Written Assessment - 25%		•			•
3 - Examination - 50%	•	•	•		•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Knowledge	○	○	○	○	○
2 - Communication	○	○	○	○	○
3 - Cognitive, technical and creative skills	○	○	○	○	○
4 - Research	○	○		○	○
5 - Self-management					
6 - Ethical and Professional Responsibility					
7 - Leadership					
8 - Aboriginal and Torres Strait Islander Cultures					

Textbooks and Resources

Textbooks

LMED29010

Supplementary

Cellular Pathology: An Introduction to Techniques and Applications

Edition: 3rd (2015)

Authors: D. J. Cook and P. J. Warren

Scion Publishing Ltd

ISBN: 1907904352

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Microsoft CoPilot, ChatGPT, or similar Generative Artificial Intelligence tool.

Referencing Style

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

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)
- [Vancouver](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Ingrid Christiansen Unit Coordinator

i.christiansen@cqu.edu.au

Schedule

Week 1 - 08 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 1 - Cytology/Cytopathology	Readings will be made available on the Moodle site.	Tutorial

Week 2 - 15 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 1 - Cytology/Cytopathology	Readings will be made available on the Moodle site.	Tutorial

Week 3 - 22 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 1 - Cytology/Cytopathology	Readings will be made available on the Moodle site.	Tutorial

Week 4 - 29 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Module 1 - Cytology/Cytopathology	Readings will be made available on the Moodle site.	Tutorial Assessment 1: Online Quiz 1 Opens: Week 4 Monday (29 July) 8:00am AEST Closes: Week 4 Friday (02 August) 8:00pm AEST
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Week 5 - 05 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 1 - Cytology/Cytopathology	Readings will be made available on the Moodle site.	Tutorial

Vacation Week - 12 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 19 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 2 - HistoGenetics	Readings will be made available on the Moodle site.	Tutorial Assessment 1: Online Quiz 2 Opens: Week 6 Monday (19 August) 8:00am AEST Closes: Week 6 Friday (23 August) 8:00pm AEST

Week 7 - 26 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 2 - HistoGenetics	Readings will be made available on the Moodle site.	Tutorial

Week 8 - 02 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 3 - Research Histopathology	Readings will be made available on the Moodle site.	Tutorial

Week 9 - 09 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 3 - Research Histopathology	Readings will be made available on the Moodle site.	Tutorial

Week 10 - 16 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 4 - Quality and Management in Anatomical Pathology	Readings will be made available on the Moodle site.	Tutorial Assessment 2: Critique Due: Week 10 Friday (20 Sept 2024) 5:00 pm AEST

Week 11 - 23 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 4 - Quality and Management in Anatomical Pathology	Readings will be made available on the Moodle site.	Tutorial

Week 12 - 30 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Module 4 - Quality and Management in Anatomical Pathology	Readings will be made available on the Moodle site.	Tutorial

Review/Exam Week - 07 Oct 2024

Module/Topic	Chapter	Events and Submissions/Topic
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Exam to be held during the examination period. Dates and times to be confirmed during term.

Exam Week - 14 Oct 2024

Module/Topic	Chapter	Events and Submissions/Topic
		Exam to be held during the examination period. Dates and times to be confirmed during term.

Term Specific Information

Your unit coordinators for LMED29002 Anatomical Pathology 1 are Ingrid Christiansen and Associate Professor Paul Neilsen. Your primary contact point is Ingrid and you can contact Ingrid using the following means:

- Via the forum on the unit's Moodle site. The forum for this unit is continuously monitored and you can expect a response within one (1) business day of posting your question;
- Through email (i.christiansen@cqu.edu.au) or
- Via telephone on 07 4930 6518.

As the name suggests, this unit will provide you with an extension of knowledge gained in foundational of anatomical pathology units. LMED29010 Anatomical Pathology 2 is a core unit in one course:

CM18 - Master of Laboratory Medicine

Tutorials will be delivered each week, primarily from the Rockhampton campus or online, and students who are enrolled in either mixed mode or at the Melbourne campus will be able to join these classes via Zoom. These tutorials will also be recorded for the benefit of those students who are unable to attend the live lectures and tutorials. During the tutorials, you will work through the discussion topics or weekly study questions that are provided to you on the Moodle site. These discussion topics and weekly study questions will help you apply knowledge learned during the weekly lecture and prepare you for the assessments. You will gain the most benefit from the tutorials if you watch the weekly lectures beforehand and attempt the weekly study questions. You are strongly encouraged to participate in tutorials, as studies have shown that students who attend the tutorials and participate in discussions have higher rates of success (Karnik et al., 2020). Weekly revision quizzes are also provided to reinforce the knowledge you have gained from the lectures and to support your learning experience in this unit.

As per Australian educational standards, you are expected to commit 150 hours of engagement to your study of this unit. This is broken down as:

2 - 3 hours per week watching recorded lectures and revising the content through study notes

3 - 4 hours per week completing the weekly study questions and weekly revision quizzes on the unit's Moodle site.

1 - 2 hours per week attending the weekly tutorial and reflecting on your answers to the weekly study questions

3 - 4 hours per week preparing your assessments or studying for your exams

Karnik, A., Kishore, P., & Meraj, M. (2020). Examining the linkage between class attendance at university and academic performance in an International Branch Campus setting. *Research in Comparative and International Education*, 15(4), 371-390. <https://doi.org/10.1177/1745499920958855>

Assessment Tasks

1 Assessment 1: Summative Quizzes

Assessment Type

Online Quiz(zes)

Task Description

This assessment task requires you to demonstrate your knowledge and understanding of histological and cytological techniques that you learn in this unit.

You are required to complete two (2) online quizzes.

Each quiz will be comprised of multiple choice, true-false and short answer questions.

Your time limit for each quiz is 30 minutes.

The quiz will automatically submit at the completion of the 30 minute duration.

You will be allowed one (1) attempt at each quiz.

Each quiz is worth 12.5%, and overall will contribute 25% to your final grade. You will only be able to access and complete Quiz 2 after you have attempted Quiz 1.

Quiz	Opens	Closes	Covers
1	29 July 2024	2 August 2024	Weeks 1-3
2	19 August 2024	23 August 2024	Weeks 4-5

Number of Quizzes

2

Frequency of Quizzes

Other

Assessment Due Date

Please see the timeline outlined above and in the schedule for specific information about quiz opening times and due dates.

Return Date to Students

Weighting

25%

Minimum mark or grade

50% Collectively

Assessment Criteria

The questions will be marked upon submission of your quiz. Marks will become available once all students have completed the online quiz and all manual marking has been completed.

Referencing Style

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)
- [Vancouver](#)

Submission

Online

Learning Outcomes Assessed

- Categorise complex histopathological and cytopathological specimens and discriminate artefactual morphology
- Diagnose normal and non complex conditions using the cytological process

Graduate Attributes

2 Assessment 2: Critique

Assessment Type

Written Assessment

Task Description

This assessment is made up of multiple parts:

1. Select a specific solid tumour malignancy from a list provided on Moodle. Using a Generative Artificial Intelligence application such as Copilot, generate a histological staining panel in 200-250 words that could be used to aid in the diagnosis of this specific cancer.
2. Using this information, generate a flowchart that outlines each of these key steps.
3. Critique the generated response in 500-750 words, with the use of no more than five (5) peer reviewed articles published in the last three (5) years.

Assessment Due Date

Week 10 Friday (20 Sept 2024) 5:00 pm AEST

Return Date to Students

Week 12 Friday (4 Oct 2024)

Weighting

25%

Minimum mark or grade

50%

Assessment Criteria

You will be assessed on the following:

1. Ability to generate a response to the requested criteria.
2. Demonstration of summarising the response and assumed knowledge to generate a flow chart.
3. Critique the generated response using no more than five (5) current primary research publications.

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

Referencing Style

- [American Psychological Association 7th Edition \(APA 7th edition\)](#)
- [Vancouver](#)

Submission

Online

Learning Outcomes Assessed

- Analyse the role of histopathology in the detection of tissue inflammation and malignancy during the onset and progression of human disease
- Evaluate existing and emerging specialised fixation techniques and new molecular and hybridisation techniques in histology and cytology.

Graduate Attributes

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting

50%

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).

Learning Outcomes Assessed

Graduate Attributes

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