CHIR20007 *Diagnostic Imaging 2*
Term 3 - 2023

Profile information current as at 24/04/2024 04:04 am

General Information

Overview
This unit is a continuation of Diagnostic Imaging 1. The unit further prepares you to identify, interpret, report and communicate skeletal changes of pathological process not previously covered, as they present on conventional radiographs and advanced imaging modalities. These differential diagnostic skills are fundamental competencies in Chiropractic practice.

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
Corequisite: CHIR20006 Clinical Practice 3 Pre-requisite CHIR20005 Diagnostic Imaging 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 3 - 2023

- Brisbane
- Mackay

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. **Written Assessment**
Weighting: 40%
2. **Practical Assessment**
Weighting: 30%
3. **Oral Examination**
Weighting: 30%
4. **Case Study**
Weighting: Pass/Fail

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 Self reflection and observation

Feedback

Some students may benefit from an educator in the classroom and on-campus activity to facilitate engagement.

Recommendation

It is recommended that to provide in classroom tutorials which provide an authentic experience, higher resolution monitors and .dicom viewing software be provided for all computers in the PC lab where CHIR20007 meets.

Unit Learning Outcomes

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

1. Identify the radiographic signs of disease.
2. Differentiate normal from abnormal radiographic structures of the body.
3. Develop and utilise a search strategy to locate and describe disease processes.
4. Create a differential diagnosis list and decide which entity is most likely based on radiographic and clinical information.
5. Select appropriate management for a variety of abnormalities.
6. Write complete and concise radiology reports.

The Learning Outcomes are in the context of the AQF and specifically address Units 6, 7, 8, 9, of the CCEA Competencies, in particular elements 6.1, 6.2, 6.5, 6.6, 7.2, 9.2, 9.3 with an emphasis on elements 6.4, 7.1, 8.3, and 9.10.

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	5	6
1 - Written Assessment - 40%		•	•		•	•
2 - Practical Assessment - 30%		•	•	•		
3 - Oral Examination - 30%	•			•	•	
4 - Case Study - 0%	•					•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
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

CHIR20007

Prescribed

Yochum and Rowe's Essentials of Skeletal Radiology
Edition: 3rd (2005)
Authors: Terry R Yochum and Lindsay J Rowe
Lippincott, Williams and Wilkins
ISBN: 9780781739467
Binding: Hardcover

Additional Textbook Information
Textbook can be accessed online through the library.

View textbooks at the CQUniversity Bookshop

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 style: American Psychological Association 7th Edition (APA 7th edition)
For further information, see the Assessment Tasks.

Teaching Contacts

Kristin Grace Unit Coordinator
k.grace@cqu.edu.au

Schedule

Week 1 - Introduction to Bone Lesions - 06 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Advanced Imaging Introduction to Bone lesions	All page numbers from Yochum & Rowe's Essentials of Skeletal Radiology, Third Edition Chap. 6, pp. 485-546; 597-615 Chap. 7, pp. 679-718	

Week 2 - Osseous and Cartilagenous Tumours - 13 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
Osseous and Cartilaginous Tumours	Osteoma pp. 1244-1248 Bone island/Enostoma pp. 1249-1254 Osteoid Osteoma/osteoblastoma pp. 1254-1267 Osteosarcoma pp. 1184-1194 Enchondroma pp. 1267-1279 Osteochondroma pp. 1226-1237 Chondrosarcoma pp. 1194-1200	

Week 3 - Fibrous and Miscellaneous Tumours - 20 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
Fibrous and Miscellaneous Tumours	Fibroxanthoma pp. 1285-1290 Fibrosarcoma pp. 1205-1208 Giant cell tumor pp. 1220-1226 Aneurysmal bone cyst pp. 1295-1299 Ewing's sarcoma pp. 1200-1205	

Week 4 - Metastasis and Miscellaneous Tumours - 27 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
Metastasis and Miscellaneous Tumours	Metastatic bone tumours pp. 1137-1168 Multiple myeloma pp. 1168-1183 Hemangioma pp. 1237-1244 Chordoma pp. 1208-1213 Paget's disease pp.1302-1331 Fibrous dysplasia pp. pp. 1332-1346	

Week 5 - Trauma Introduction - 04 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
Trauma Introduction	pp. 793-805 & 929-939	

Week 6 - Trauma Upper Extremity - 11 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
Trauma Upper Extremity	Shoulder girdle, elbow and forearm, wrist and hand pp. 889-921	Report Writing - Cases 1-3 Due Friday 15 December 2023 11:59pm

Vacation - 18 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic

Holiday - 25 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic

Week 7 - Trauma Lower Extremity - 01 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
Trauma Lower Extremity	Hip, knee, ankle, foot pp. 858-885	

Week 8 - Trauma Spine - 08 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
Trauma Spine	pp. 811-858	

Week 9 - Chest Part 1 - 15 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
Chest Part 1	Weekly teaching materials posted to Moodle	Oral Interpretation Assessments begin - Times will be allocated prior

Week 10 - Chest Part 2 - 22 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
Chest Part 2	Weekly teaching materials posted to Moodle	

Week 11 - Abdomen - 29 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
Abdomen	Weekly teaching materials posted to Moodle	

Week 12 - Review - 05 Feb 2024

Module/Topic	Chapter	Events and Submissions/Topic

Review		Report Writing Cases 4-6 Due Friday 09 February 2024 11:59pm

Exam Week - 12 Feb 2024

Module/Topic	Chapter	Events and Submissions/Topic
		Final OSCE assessment - Wednesday 14.02.2024 9-11am Final Theory assessment - Friday 16.02.2024 9-11am (**Please note: These dates and times are subject to any changes of the university timetable) **End of Term Written Theory Assessment** Due: Exam Week Friday (16 Feb 2024) 11:00 am AEST **End of Term Practical Assessment - Case Based OSCE** Due: Exam Week Wednesday (14 Feb 2024) 11:00 am AEST

Term Specific Information

The tutorial for Weeks 2 & 3 will be held only online. For all remaining tutorials, you will be expected to attend in-person as scheduled unless otherwise notified.

Assessment Tasks

1 End of Term Written Theory Assessment

Assessment Type
Written Assessment

Task Description
This assessment will be comprised of a range of question formats, including multi choice, matching, short and long answer explanations.
This is a closed-book assessment and no notes, texts or additional electronic devices are allowed during this assessment task. You will have a 10 minute perusal time prior to the allotted writing time. The test will last for two (2) hours. You will submit your test electronically.
This test must be written at the timetabled date and time at the location specified. If you arrive late, you may enter the test room up to 15 minutes after the start of the test, however, you will still be required to submit your test at the standard test end time. You will not be allowed entry more than 15 minutes after the test starts. In the absence of an approved extension, there will be no opportunity for you to complete this assessment at a later time, and you will receive a mark of zero for the assessment.

Assessment Due Date
Exam Week Friday (16 Feb 2024) 11:00 am AEST
Friday 16/02/2024 9-11AM; Subject to and Scheduled via Moodle

Return Date to Students

Friday 24/02/2024

Weighting
40%

Minimum mark or grade
50%

Assessment Criteria
In order to achieve a passing grade or higher, students will be required to demonstrate their competencies in the following areas:

1. Identify key principles and findings of pathology that may present on diagnostic imaging studies relevant to Chiropractic practice and their relationship to clinical information;
2. Effectively communicate an understanding of referral pathways related to key findings on diagnostic imaging studies and associated clinical information;
3. Demonstrate the ability to appropriately order and interpret imaging relevant to Chiropractic practice;
4. Demonstrate the application of ALARA principles or other guidelines for the use of diagnostic imaging modalities.

Referencing Style

- American Psychological Association 7th Edition (APA 7th edition)

Submission
Online

Learning Outcomes Assessed

- Differentiate normal from abnormal radiographic structures of the body.
- Develop and utilise a search strategy to locate and describe disease processes.
- Select appropriate management for a variety of abnormalities.
- Write complete and concise radiology reports.

2 End of Term Practical Assessment - Case Based OSCE

Assessment Type
Practical Assessment

Task Description
Students will review a series of image sets with or without an accompanying history from which they will be required to identify and abnormality, diagnose a condition or abnormality or answer a number of associated short answer questions. The clinical cases will align with content from the radiology lectures as well as relevant normal radiographic anatomy.

Assessment Due Date
Exam Week Wednesday (14 Feb 2024) 11:00 am AEST
Wednesday 14/02/2024 9-11AM; Subject to and Scheduled via Moodle

Return Date to Students

Friday 24/02/2024

Weighting
30%

Minimum mark or grade
50%

Assessment Criteria
In order to achieve a passing grade or higher, students will be required to demonstrate their competencies in the following areas:
1. Accurately identify pathologies covered in the course;
2. Apply appropriate terminology to describe the radiographic appearance and diagnosis of pathologies;
3. Demonstrate an understanding of appropriate referral pathways including GP, Specialist, Advanced Imaging, Pathology;
4. Effectively communicate key radiographic findings and their relationships to clinical information in a simulated clinical environment.

Referencing Style

- American Psychological Association 7th Edition (APA 7th edition)

Submission
Online

Learning Outcomes Assessed

- Differentiate normal from abnormal radiographic structures of the body.
- Develop and utilise a search strategy to locate and describe disease processes.
- Create a differential diagnosis list and decide which entity is most likely based on radiographic and clinical information.

3 Viva/ Oral Interpretation and Presentation

Assessment Type
Oral Examination

Task Description
The student will be provided with 1-2 diagnostic imaging cases reflecting that which may present to a chiropractor. These will be chosen randomly and will represent those conditions presented during the term.
The student will attend a 15 minute 'one-on-one, in person/online' assessment session and provide a verbal interpretation of the above cases to the lecturer. This assessment will be completed throughout Weeks 9-12. Times will be made available and posted for selection at Week 8.
Marking rubric for this component will be provided on Moodle and discussed in tutorial.
These assessments will be held online.

Assessment Due Date

** These will take place between Weeks 9-12. Times will be made available in Week 8

Return Date to Students

Within university policy timeline.

Weighting
30%

Minimum mark or grade
50%

Assessment Criteria
In order to achieve a passing grade or higher, students will be required to demonstrate their competencies in the following areas:
1. Identify normal radiographic anatomy;
2. Identify pathologies covered in the course;
3. Apply appropriate terminology to describe the radiographic appearance and diagnosis of pathologies;
4. Effectively communicate key radiographic findings and their relationships to clinical information in a simulated clinical environment
5. Demonstrate an understanding of the contraindications to manual therapies;
6. Demonstrate an understanding of referral pathways including GP, Specialist, Advanced Imaging, Pathology where appropriate.

Referencing Style

- American Psychological Association 7th Edition (APA 7th edition)

Submission
Online

Learning Outcomes Assessed

- Identify the radiographic signs of disease.
- Create a differential diagnosis list and decide which entity is most likely based on radiographic and clinical information.
- Select appropriate management for a variety of abnormalities.

4 Written Case Reports

Assessment Type
Case Study

Task Description
Radiological reports are an important component of clinical management. It is crucial that chiropractors are able to construct adequate reports on films obtained in their clinics and comprehend terminology contained in reports on images provided. The student will construct Six (6) detailed radiology reports on separate case images. Instructions for locating the case images will be provided on the Moodle page.
Please note the following details:

- The report itself should be in the format presented in the course.
- Adhere to the template posted on Moodle
- 3 reports will be due at the time specified in week 6 and the remaining 3 reports will be due at the time specified in Week 11

This is a pass/ fail component. ALL reports must be turned in to pass. Feedback will be provided during discussion of the case in tutorial and a Model report will be uploaded following week 6 and week 12.

Assessment Due Date

These will be submitted via Turnitin on Moodle Weeks 6 and 12

Return Date to Students

24/02/2024

Weighting
Pass/Fail

Assessment Criteria
In order to achieve a passing grade or higher, students will be required to demonstrate their competencies in the following areas:
1. Identification of pathologies covered in the course;
2. Apply appropriate terminology to describe the radiographic appearance and diagnosis of pathologies;
3. Demonstrate an understanding of the mechanics of radiographic report writing;
4. Effectively communicate key radiographic findings and their relationships to clinical information in a simulated clinical environment;
5. Demonstrate an understanding of appropriate referral pathways including GP, Specialist, Advanced Imaging, Pathology.

Referencing Style

- American Psychological Association 7th Edition (APA 7th edition)

Submission
Online

Learning Outcomes Assessed

- Identify the radiographic signs of disease.
- Write complete and concise radiology reports.

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