



MEDI13002 *Imaging Procedures 3*

Term 1 - 2023

Profile information current as at 09/05/2024 05:20 am

All details in this unit profile for MEDI13002 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

Imaging Procedures 3 builds upon the core knowledge and skills developed and consolidated during Imaging Procedures 1 and 2 and clinical practice. This unit will focus on practical Computed Tomography (CT) imaging and on safe administration of intravenous contrast media. On completion of this unit you will have developed the skills and knowledge to be able to perform simulated CT examinations of the brain, spine, thorax, abdomen, pelvis and extremities. You will customise imaging acquisition and processing parameters for various clinical presentations. You will propose and develop new and modified imaging protocols. You will learn the foundation knowledge and skills of intravenous (IV) cannulation. You will perform CT procedures and simulated IV cannulation in our clinical simulation laboratory.

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

Pre-requisites: MEDI12006 Imaging Procedures 2 and MEDI12005 Science & Instrumentation 2 and MEDI13004 Medical Imaging Clinical Course 2 Co-requisite: MEDI13001 Science & Instrumentation 3

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 - 2023

- 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 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: Pass/Fail

2. **In-class Test(s)**

Weighting: 40%

3. **Practical Assessment**

Weighting: Pass/Fail

4. **Practical Assessment**

Weighting: Pass/Fail

5. **In-class Test(s)**

Weighting: 60%

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

Feedback

Tutorials are extremely interactive and provide an opportunity for application of the week's concepts to clinical practice. Longer tutorials would allow for more in-depth discussions.

Recommendation

Investigate the feasibility of Increasing the weekly tutorial time from 60 to 90 minutes.

Feedback from Self Reflection and Student verbal feedback

Feedback

Additional online anatomy resources were sourced in 2022 which students found useful and utilised often.

Recommendation

Continue to source high quality online resources for CT related 3D relational anatomy.

Unit Learning Outcomes

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

1. Optimise the imaging protocols and presentation of data sets for CT examinations (both non-contrast and contrast), taking into account evidence based practice and individual clinical circumstances
2. Present a logical argument to support decision-making in preparing the patient and equipment for computed tomography examinations and in selecting, creating and modifying image acquisition, processing and display protocols
3. Safely and effectively perform non-contrast computed tomography examinations and intra-venous cannulation in the simulated clinical environment
4. Demonstrate patient care and professional behaviours in the simulated clinical environment
5. Analyse computed tomography data sets in order to identify normal anatomical structures and common pathologies and to evaluate image quality
6. Apply underlying knowledge to the safe and effective use of contrast agents in computed tomography.

This unit maps to the following components of the Medical Radiation Practice Board of Australia's Professional Capabilities for Medical Radiation Practice (2020 version):

- Domain 1 Medical radiation practitioner: capabilities 1 - 8
- Domain 1A Diagnostic radiographer: capability 3
- Domain 2 Professional and ethical practitioner: capabilities 1 - 3
- Domain 3 Communicator and collaborator: capability 1
- Domain 4 Evidence-informed practitioner: capability 1
- Domain 5 Radiation safety and risk manager: capabilities 1 - 2

The Australian Society of Medical Imaging and Radiation Therapy (ASMIRT) recommends that IV cannulation be taught at undergraduate level.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Practical Assessment - 0%			•	•		•
2 - Practical Assessment - 0%	•		•	•		
3 - Practical Assessment - 0%				•		
4 - In-class Test(s) - 40%					•	
5 - In-class Test(s) - 60%	•	•	•		•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes					
	1	2	3	4	5	6
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 - 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 - 0%	•	•		•				•		
2 - Practical Assessment - 0%	•			•		•	•	•		
3 - Practical Assessment - 0%					•		•			
4 - In-class Test(s) - 40%	•					•				

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
5 - In-class Test(s) - 60%	•	•				•		•		

Textbooks and Resources

Textbooks

MEDI13002

Supplementary

Computed Tomography for Technologists: A comprehensive text

Edition: 2nd (2018)

Authors: Romans, Lois E.

Wolters Kluwer Health

ISBN: 9781496375858

Binding: Paperback

MEDI13002

Supplementary

SECTIONAL ANATOMY FOR IMAGING PROFESSIONALS

Edition: 4th (2018)

Authors: Lorrie Kelley, Connie Petersen

Mosby

St Louis , Missouri , United States

Binding: eBook

Additional Textbook Information

Textbooks can be accessed online at the CQUniversity Library website. Access may be limited. If you prefer your own copy, you can purchase either paper or eBook versions at the CQUni Bookshop here:

<http://bookshop.cqu.edu.au> (search on the Unit code)

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

For further information, see the Assessment Tasks.

Teaching Contacts

Sarah Wooldridge Unit Coordinator

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Danielle Clifford Unit Coordinator

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Schedule

Week 1 - 06 Mar 2023

Module/Topic	Chapter	Events and Submissions/Topic
IV Cannulation and Vein Anatomy	Romans, Chapter 12 and Chapter 13 pp 148-154 IV cannulation workbook available on the unit Moodle site	Cannulation lab, on-campus tutorial

Week 2 - 13 Mar 2023

Module/Topic	Chapter	Events and Submissions/Topic
Contrast and Contrast Safety	Romans, Chapter 12 and Chapter 13 IV cannulation workbook available on the unit Moodle site	Cannulation lab, on-campus tutorial

Week 3 - 20 Mar 2023

Module/Topic	Chapter	Events and Submissions/Topic
Contrast Reactions and Patient Care	Romans, Chapter 10 and Chapter 11	Cannulation assessment, on-campus tutorial 1 IV Cannulation Practical Assessment Due: Week 3 Monday (20 Mar 2023) 5:00 pm AEST

Week 4 - 27 Mar 2023

Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Head and CT Brain Anatomy	Romans, Chapter 19 and Chapter 15 pg 191-205	CT procedures lab, on-campus tutorial

Week 5 - 03 Apr 2023

Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Spine and CT Spine Anatomy	Romans, Chapter 15 pg 206-211, Chapter 19 pg 269-271	CT procedures lab, on-campus tutorial

Vacation Week - 10 Apr 2023

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 17 Apr 2023

Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Thorax and CT Thorax Anatomy	Romans, Chapter 16 and Chapter 20 pg 294-295, 273-276	CT procedures lab, on-campus tutorial

Week 7 - 24 Apr 2023

Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Abdomen and CT Abdomen Anatomy	Romans, Chapters 17 & 21	No CT procedures lab or on-campus tutorial

Week 8 - 01 May 2023

Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Chest, Abdomen and Pelvis and Hips and CT Pelvis Anatomy	Romans, Chapters 17 & 21, Chapter 18 pg 235-237	CT procedures lab, on-campus tutorial

Week 9 - 08 May 2023

Module/Topic	Chapter	Events and Submissions/Topic
CT Imaging of the Extremities and CT Ankle, Knee and Shoulder Anatomy	Romans, Chapter 18 & 22	CT procedures lab, on-campus tutorial

Week 10 - 15 May 2023

Module/Topic	Chapter	Events and Submissions/Topic
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CT Special Procedures and Angiography	Romans, Chapter 23, 25 and pg 291-292 Romans, Chapter 19 pg 249-251 & 271 Romans, Chapter 20 pg 275-283 Romans, Chapter 13 pg 154-158	CT procedures lab, on-campus tutorial 2 In Class Test Due: Week 10 Monday (15 May 2023) 1:00 pm AEST
Week 11 - 22 May 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Consolidation		CT procedures lab, on-campus tutorial 3 Professional Behaviours Due: Week 11 Thursday (25 May 2023) 4:45 pm AEST
Week 12 - 29 May 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Assessment		CT Practical Assessment - Monday/Tuesday/Wednesday, on-campus tutorial 4 CT Practical Assessment Due: Week 12 Wednesday (31 May 2023) 5:00 pm AEST 5 Final Test Due: Week 12 Friday (2 June 2023) 11:00 am AEST
Review/Exam Week - 05 Jun 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 12 Jun 2023		
Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

This unit is at Mackay Ooralea Campus running from Weeks 1 to 12.

The lecture content will be pre-recorded and will run from Week 1 to 11. There will be a tutorial as well as practical and written assessments held throughout Week 12. Tutorials will not be recorded.

Note that 150 hours of student engagement is required for this unit. You should plan to view all lectures (1-2 hrs/week), independent labs (1hr/week), anatomy consolidation (1hr/week) and tutorials (1hr/week), as this will be integral to the development of knowledge and skills required for the assessments of the unit. You are expected to practice positioning and reformatting techniques during the independent practice sessions. Anatomy revision activities, learning goals and images will be provided on Moodle. You are expected to complete all these activities to ensure success in this unit and in future clinical placements. The pace of the class CT lab activities has been set with the expectation of practice and corresponding skill development.

Assessment Tasks

1 1 IV Cannulation Practical Assessment

Assessment Type

Practical Assessment

Task Description

Intravenous cannulation is a core skill for radiographers who perform CT imaging. In preparation for clinical practice, you will develop the knowledge, skills and behaviours needed to perform cannulation in the clinical simulation environment. You will perform intravenous cannulation on the arm or hand of a cannulation phantom for this practical assessment.

This is a holistic assessment and you must consider all aspects of the patient's journey during cannulation, including patient care and communication as well as the practical elements of the cannulation. For the first part of the assessment, you will communicate with the assessor who will take the part of the patient. For the second part, you will cannulate the arm phantom.

Please note -

- You will have 15 minutes to complete the assessment. If all the practical elements of the assessment are not completed within the allocated 15 minutes, the assessment will be stopped and you will be marked based on your performance up to that point.
- You must present for your individual practical assessment dressed as you would present to the clinical environment. Any student not adhering to the dress code may be excluded from the assessment.
- This assessment task will be recorded using a video camera to enable moderation.
- As this is a simulation of a clinical procedure, you must perform this assessment without referring to any guidance resources (eg. notes, texts, electronic devices) - this is a closed book assessment.
- If you do not achieve the minimum score on all tasks you will be given two additional opportunities to perform the assessment. The first re-test will be scheduled within one calendar week of receiving the score and feedback of the original attempt. The second and final re-test will be scheduled within one calendar week of receiving the score and feedback of the first re-test.
- This is a pass/fail assessment item that must be completed by the specified due date. If you have extenuating circumstances that cause you to be unable to attend your practical at your timetabled date and time, you must apply for an assessment extension. See Section 5 of the University's Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you will be assigned a new practical date/time which will be set according to the availability of the lab facilities and supervising staff. It is your responsibility to ensure that you can attend at that new assigned date/time. In the absence of an approved extension, you will not be able to complete this task at a later date and would thus receive a Fail grade for the assessment task, which would result in a Fail grade for the unit.

Assessment Due Date

Week 3 Monday (20 Mar 2023) 5:00 pm AEST

Assessment will be held during timetabled cannulation lab sessions in Week 3

Return Date to Students

Week 5 Monday (3 Apr 2023)

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Assessed on:

- Patient care
- Professional communication
- Legal requirements
- Infection control
- Sharps safety
- Effective and safe cannulation

Each criterion has one or more tasks. There is a minimum score required for a pass. Some tasks are of a more critical nature than others, therefore require a higher level of performance.

Please note:

- Detailed assessment criteria and a Standards of Performance form will be available on the unit Moodle site
- To attain a pass score in this assessment you must achieve the minimum specified target score in ALL of the assessment tasks

Referencing Style

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

Submission

Offline

Learning Outcomes Assessed

- Safely and effectively perform non-contrast computed tomography examinations and intra-venous cannulation in the simulated clinical environment
- Demonstrate patient care and professional behaviours in the simulated clinical environment
- Apply underlying knowledge to the safe and effective use of contrast agents in computed tomography.

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Ethical practice

2 2 In Class Test

Assessment Type

In-class Test(s)

Task Description

You will write an in-class Moodle test to demonstrate your ability to apply the concepts and use the terminology based on content provided from the first 8 weeks of this unit. Question tasks will be of the same types that you will practice in weekly tutorials. These tasks may include analysis of projected diagrams, photographs and CT images to identify normal anatomical structures, as well as discuss patient care, preparation, protocols, referrals and contrast.

This test is timetabled to take place on campus, on Monday 15th May, 2023. The test will run for 70 minutes. Prior to the test will be a 5 minute settling in period. The test itself will start at 9:40am and finish at 10:50am AEST or 11:10am and finish at 12:20pm depending upon your timetabled choice.

This is a closed book assessment and no notes, texts or additional electronic devices are allowed into class during this assessment task.

This test must be written at the timetabled date and time. As per the Assessment Procedures, this task is to be completed during a defined period. There is no opportunity to apply a late penalty. If you arrive late, you may enter the test room up to 30 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 30 minutes after the test starts. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero for the assessment if you have not completed it by the scheduled date and time.

Assessment Due Date

Week 10 Monday (15 May 2023) 1:00 pm AEST

Return Date to Students

Week 12 Monday (29 May 2023)

Weighting

40%

Assessment Criteria

Assessed on:

- Identification of normal cross-sectional anatomy
- Application of knowledge of imaging protocols
- Accurate consideration of contrast safety, cannulation technique and contrast use
- Critical thinking.

Question responses will be scored on the following criteria:

- Correct use of scientific terminology
- Correct selection and application of core concepts to the specific content of the question
- Clarity, correctness, relevance and completeness of the response in addressing the question that was asked.

The number of marks for each question are allocated based on the depth and breadth of the required response, and will be indicated in the Moodle Quiz.

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Analyse computed tomography data sets in order to identify normal anatomical structures and common pathologies and to evaluate image quality

Graduate Attributes

- Communication
- Information Technology Competence

3 3 Professional Behaviours

Assessment Type

Practical Assessment

Task Description

Professional behaviour is a vital component of competency as a health care professional. As such you will be expected to demonstrate this consistently whilst working in the simulated clinical environment of the imaging labs.

During each lab class, your lab instructor will monitor your performance based on the criteria listed below, provide brief verbal feedback at the end of class and will document it in the Professional Behaviours Form. Should any significant behavioural issue arise, the unit coordinator will follow up with you directly. After the final lab class in Week 11, the completed forms will be reviewed by the unit coordinator to determine the number of points you have earned towards the maximum available number. That number is based on the number of weekly labs and any approved absence.

Regular attendance is required of you as a core professional behaviour. If you are unwell and unable to attend, you must email the unit coordinator BEFORE your timetabled lab session to report your absence and provide your reasoning. You may be required to provide a medical certificate or other evidence of illness.

Assessment Due Date

Week 11 Thursday (25 May 2023) 4:45 pm AEST

Return Date to Students

Review/Exam Week Thursday (8 June 2023)

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

Assessed upon:

- Attendance
- Punctuality
- Professional Attire
- Preparedness
- Productivity
- Teamwork
- Professional decorum
- Feedback

Detailed assessment criteria and a marking rubric are available on the unit Moodle site.

You will receive 8 points per lab class if all assessment criteria are met. Points will be deducted for any criteria, including attendance, where you have not demonstrated the behaviour to the required standard.

To attain a 'Pass' for this assessment, you must:

- receive 85% of available points for the professional behaviours evaluation
- complete the professional behaviours evaluation form by the due date.

Referencing Style

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

Submission

Offline

Learning Outcomes Assessed

- Demonstrate patient care and professional behaviours in the simulated clinical environment

Graduate Attributes

- Team Work
- Cross Cultural Competence

4 4 CT Practical Assessment

Assessment Type

Practical Assessment

Task Description

The performance of computed tomography (CT) is a core skill for entry to practice in diagnostic radiography. You will need to demonstrate safe and effective CT practice in preparation for your subsequent clinical placements, during which you will undergo performance assessments in CT scanning.

You will perform an individual 15 minute practical assessment of a CT clinical simulation procedure in the CT suite.

You will be given a CT examination referral for one of the non-contrast CT protocols that have been covered during the CT practical lab sessions of this unit. You will be required to carry out that examination, tailoring to the patient based on relevant clinical indicators. This includes generating a scout image, planning and executing the required scan, generating the required reformatted image data set and manipulating it as required for presentation.

This is a holistic assessment and you must consider all aspects of the patient journey, including patient care and communication as well as the technical aspects of the examination. For the first part of the assessment, you will communicate with the assessor who will take the part of the patient. For the second part, you will use the CT anthropomorphic phantom and complete the required CT examination.

Please note -

- The examination is timed. You will have 15 minutes to complete the tasks for this examination. If the examination is not completed within the allocated 15 minutes, the examination will be stopped and you will be marked based on your performance up to that point.
- You must present for your individual practical assessment dressed as you would present to the clinical environment. Any student not adhering to the dress code may be excluded from the assessment.
- This assessment task will be recorded using a video camera to enable moderation.
- As this is a simulation of a clinical procedure, you must perform this assessment without referring to any guidance resources (eg. notes, texts, electronic devices) - this is a closed book assessment.
- If you do not achieve the minimum score on all tasks you will be given one additional opportunity to resit the assessment within 3 days of receiving your initial scores and feedback.
- This is a pass/fail assessment item that must be completed by the specified due date. If you have extenuating circumstances that cause you to be unable to attend your practical at your timetabled date and time, you must apply for an assessment extension. See Section 5 of the University's Assessment Policy and Procedure for details regarding assessment management, specifically around assessment extension. If your request for an extension is approved, you will be assigned a new practical date/time which will be set according to the availability of the imaging facilities and supervising staff. It is your responsibility to ensure that you can attend at that new assigned date/time. In the absence of an approved extension, you will not be able to complete this task at a later date and would thus receive a Fail grade for the assessment task, which would result in a Fail grade for the unit.

Assessment Due Date

Week 12 Wednesday (31 May 2023) 5:00 pm AEST

Assessment will be held during timetabled CT practical assessment lab sessions on Monday, Tuesday or Wednesday of Week 12

Return Date to Students

Written feedback within 7 days

Weighting

Pass/Fail

Minimum mark or grade

Pass

Assessment Criteria

You will be assessed on the following main categories of activities:

- Justification
- Patient communication
- Legal requirements
- Use of the control panel
- Use of the gantry and table
- Selection of protocols and imaging parameters
- Scan planning and manipulation of data set
- Accurate use of terminology

Each criterion has one or more tasks. There is a minimum score required for a pass. Some tasks are of a more critical nature than others, therefore require a higher level of performance.

Please note:

- Detailed assessment criteria and Standards of Performance form will be available on the unit Moodle site.
- To attain a pass score in this assessment you must achieve the minimum specified target score in ALL of the assessment tasks.

Referencing Style

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

Submission

Offline

Learning Outcomes Assessed

- Optimise the imaging protocols and presentation of data sets for CT examinations (both non-contrast and contrast), taking into account evidence based practice and individual clinical circumstances
- Safely and effectively perform non-contrast computed tomography examinations and intra-venous cannulation in the simulated clinical environment
- Demonstrate patient care and professional behaviours in the simulated clinical environment

Graduate Attributes

- Communication
- Information Literacy
- Information Technology Competence
- Cross Cultural Competence
- Ethical practice

5 5 Final Test

Assessment Type

In-class Test(s)

Task Description

You will write an online Moodle test of 100 minutes to demonstrate your ability to apply the concepts and use the terminology based on content provided from all weeks of this unit. Question tasks will be of the same types that you will practice in weekly tutorials. These tasks may include analysis of projected diagrams, photographs and CT images to identify normal anatomical structures, appearances of common pathologies and evaluation of image quality, explanations and discussions.

This test is scheduled to take place online, on Friday 2nd June, 2023. The test will run for 100 minutes. The test will open at 9:00am AEST and will close at 11:00am AEST on the Friday 2nd June 2023.

To complete the test, ensure that you have arranged to use a computer in good working order with adequate power/charged battery.

This online test is an open book assessment. Your test responses must be your own work. It means that during the test you may access your study notes, the unit Moodle site and/or any website. The standards of academic integrity still

apply. Just as for written assignments, you must acknowledge intellectual content in your answers that is not your own work. Basic statement of facts are considered 'common knowledge' in the context of this unit so they do not need to be cited. However, *if you copy any explanation word-for-word from ANY source, you must put that content in quotation marks and formally cite your source.*

This test must be written at the scheduled date and time. As per the Assessment Procedures, this task is to be completed during a defined period. There is no opportunity to apply a late penalty. If you start your test later than the stated start time, you will still be required to submit your test at the standard test end time. In the absence of an approved extension, you cannot complete this assessment at a later time, and you will receive a mark of zero for the assessment if you have not attempted and submitted it by the scheduled date and time.

Assessment Due Date

Week 12 Friday (2 June 2023) 11:00 am AEST

Return Date to Students

Exam Week Friday (16 June 2023)

Weighting

60%

Minimum mark or grade

50%

Assessment Criteria

Assessed on:

- Identification of normal cross-sectional anatomy
- Identification of abnormalities on cross-sectional imaging
- Application of knowledge of imaging protocols
- Accurate description of patient positioning
- Application and adaptation of CT data sets to suit individual clinical circumstances
- Analysis of CT data sets to evaluate scan quality
- Accurate consideration of contrast safety, cannulation technique and contrast use
- Critical thinking

Question responses will be scored on the following criteria:

- Correct use of scientific terminology
- Correct selection and application of core concepts to the specific content of the question
- Clarity, correctness, relevance, depth of knowledge and completeness of the response in addressing the question that was asked
- Evidence of critical thinking in application of concepts to specific circumstances

The number of marks for each question are allocated based on the depth and breadth of the required response, and will be indicated on the test.

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Optimise the imaging protocols and presentation of data sets for CT examinations (both non-contrast and contrast), taking into account evidence based practice and individual clinical circumstances
- Present a logical argument to support decision-making in preparing the patient and equipment for computed tomography examinations and in selecting, creating and modifying image acquisition, processing and display protocols
- Safely and effectively perform non-contrast computed tomography examinations and intra-venous cannulation in the simulated clinical environment
- Analyse computed tomography data sets in order to identify normal anatomical structures and common pathologies and to evaluate image quality
- Apply underlying knowledge to the safe and effective use of contrast agents in computed tomography.

Graduate Attributes

- Communication
- Problem Solving
- Information Technology Competence
- Ethical practice

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