

CHIR12008 *Neuromusculoskeletal Anatomy 2*

Term 2 - 2025

Profile information current as at 11/05/2026 09:46 pm

All details in this unit profile for CHIR12008 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 builds on the anatomy taught in Human Anatomy and physiology 1 and 2 (BMSC11010 and BMSC11011), as well as Neuromusculoskeletal Anatomy 1 (CHIR12004). You will further develop your knowledge of anatomy and physiology, which will include studies in gross anatomy, embryology and histology, clinical and living anatomy. You will integrate this, where appropriate, with other basic sciences. The focus for this unit is neuroanatomy and the anatomy of the head and neck region.

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

Prerequisites BMSC11010 Human Anatomy and Physiology 1 and BMSC11011 Human Anatomy and Physiology 2 OR BMSC11001 Human Body Systems 1 and BMSC11002 Human Body Systems 2

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 - 2025

- Brisbane

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: 15%

2. Practical Assessment

Weighting: 35%

3. Online Test

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](#).

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 SUTE

Feedback

Some students felt that introducing some smaller quizzes throughout the term would have benefited their learning experience.

Recommendation

It is recommended that the new unit coordinator explore possible improvements to the assessment strategy with the head of course.

Feedback from SUTE

Feedback

Students enjoyed the on-campus tutorials and the opportunity to ask questions directly to the lecturer.

Recommendation

It is recommended that the on-campus tutorials continue to be offered as part of this unit.

Unit Learning Outcomes

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

1. Explain the embryologic processes that underpin anatomy, neuroanatomy and physiology of the human body
2. Describe the osteology, arthrology, myology, arterial supply, venous and lymphatic drainage and innervation of the head and neck region
3. Describe the structure, function and integration of components within the central and peripheral nervous system
4. Identify, where appropriate, using bones, models, images and/or the living subject, the structures forming the nervous system and the head and neck region
5. Apply your knowledge of anatomy, neuroanatomy and physiology to clinical case studies.

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
1 - Online Quiz(zes) - 15%	●	●	●		●
2 - Practical Assessment - 35%				●	
3 - Online Test - 50%	●	●	●		●

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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 - First Nations Knowledges					
11 - Aboriginal and Torres Strait Islander Cultures					

Textbooks and Resources

Textbooks

There are no required textbooks.

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

Chiara Ieradi Unit Coordinator
c.tomassoni@cqu.edu.au

Schedule

Week 1 - 14 Jul 2025

Module/Topic	Chapter	Events and Submissions/Topic
Introduction and overview of the unit Embryology of the NMSK system		
	Relevant reading and content will be available on Moodle.	

Week 2 - 21 Jul 2025

Module/Topic	Chapter	Events and Submissions/Topic
Concepts of neurosciences: neurons, glial cells, action potential, synapses, and neurotransmitters. Neuroanatomy: Central and peripheral nervous system and its key structures: Somatotopic organization: Brain and spinal cord: Peripheral nerves, receptors and neuromuscular junction		
	Relevant reading and content will be available on Moodle.	

Week 3 - 28 Jul 2025

Module/Topic	Chapter	Events and Submissions/Topic
Spinal cord anatomy and main sensory ascending, motor descending pathways and involuntary movements (spinal reflexes)		
	Relevant reading and content will be available on Moodle.	

Week 4 - 04 Aug 2025

Module/Topic	Chapter	Events and Submissions/Topic
Cranium cavity, venous sinuses, meninges, ventricles and arterial supply and brain	Relevant reading and content will be available on Moodle.	

Week 5 - 11 Aug 2025

Module/Topic	Chapter	Events and Submissions/Topic
Brainstem nuclei and cranial nerves	Relevant reading and content will be available on Moodle.	<u>Assessment 1: Quiz 1</u> Monday from 8am to 5pm Content: weeks 1 - 4

Vacation Week - 18 Aug 2025

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 25 Aug 2025

Module/Topic	Chapter	Events and Submissions/Topic
Neuroanatomy of the cerebellum and basal ganglia and their inputs on voluntary motor control	Relevant reading and content will be available on Moodle.	

Week 7 - 01 Sep 2025

Module/Topic	Chapter	Events and Submissions/Topic
Anatomy of the upper and lower cervical spine. Nerve supply of head and neck: (cervical plexus)	Relevant reading and content will be available on Moodle.	<u>Assessment 2: OSPE Part A (Online)</u> Wednesday from 8am to 5pm Content: weeks 1 - 6

Week 8 - 08 Sep 2025

Module/Topic	Chapter	Events and Submissions/Topic
Anatomy of the posterior neck, boundaries, muscles, innervation and vascular Anatomy of the anterior neck and upper thorax Muscles of the head and neck, innervation, boundaries and vascular	Relevant reading and content will be available on Moodle.	<u>Assessment 1: Quiz 2</u> Monday from 8am to 5pm Content: weeks 5 - 7

Week 9 - 15 Sep 2025

Module/Topic	Chapter	Events and Submissions/Topic
Anatomy of the face, eye, nasal cavity and paranasal sinuses.	Relevant reading and content will be available on Moodle.	

Week 10 - 22 Sep 2025

Module/Topic	Chapter	Events and Submissions/Topic
Anatomy of oral cavity, pharynx, larynx and thyroid gland and ear	Relevant reading and content will be available on Moodle.	

Week 11 - 29 Sep 2025

Module/Topic	Chapter	Events and Submissions/Topic
Neurophysiology of pain, neuro-mechanisms of spinal manipulation and safety	Relevant reading and content will be available on Moodle.	

Week 12 - 06 Oct 2025

Module/Topic	Chapter	Events and Submissions/Topic

Revision Week: Study guide

Assessment 1: Quiz 3
Monday from 8am to 5pm
Content: weeks 8 - 11

Assessment 2: OSPE Part A (F2F)
Friday from 12pm to 2pm
Content: weeks 7 - 11

Closed-book Objective Structured
Practical Exam (OSPE) - Part A (Online)
& Part B (Face-to-Face) Due: Week 12
Friday (10 Oct 2025) 5:00 pm AEST

Review/Exam Week - 13 Oct 2025

Module/Topic

Chapter

Events and Submissions/Topic

Assessment 3: End of term test
Thursday 16th October from 9am to
11am
Content: All weeks & materials

Invigilated on campus test Due:
Review/Exam Week Thursday (16 Oct
2025) 11:00 am AEST

Exam Week - 20 Oct 2025

Module/Topic

Chapter

Events and Submissions/Topic

Assessment Tasks

1 Online Quizzes

Assessment Type

Online Quiz(zes)

Task Description

The purpose of the online quizzes is to challenge your knowledge and understanding of the content as you progress through the unit.

1. Three separate online quizzes will assess your knowledge of the unit material.
2. Each quiz will have 15 questions.
3. You will be allowed ONE attempt at each quiz.
4. This is a closed-book assessment.
5. Your score from each quiz will contribute 5% to your final grade (3 quizzes x 5% = 15%).
6. In the absence of an approved extension, the task cannot be completed after the assigned date.
7. A grace period does not apply for this task.
8. AI Descriptor 1: No AI - The assessment is completed entirely without AI assistance in a controlled environment, ensuring that students rely solely on their existing knowledge, understanding, and skills.

Quiz Number	Topic Examined	Time/Quiz Opens	Time/Quiz Closes
Online Quiz 1	Week 1-4	Week 5, Monday, 8:00 AEST	Week 5, Friday, 17:00 AEST
Online Quiz 2	Week 5-7	Week 8, Monday, 8:00 AEST	Week 8, Friday, 17:00 AEST
Online Quiz 3	Week 8-11	Week 12, Monday, 8:00 AEST	Week 12, Friday, 17:00 AEST

Number of Quizzes

3

Frequency of Quizzes

Other

Assessment Due Date

All of the quizzes will be available from 8am to 5pm, on Mondays in their respective weeks (w5, w8, w12) and must be completed, in a closed-book manner. The final quiz (quiz 3) is due in week 12, the others are due during their allocated timeslots on weeks 5 and 8.

Return Date to Students

Results will be provided not more than 2 weeks after each quiz closes.

Weighting

15%

Minimum mark or grade

50%

Assessment Criteria

Assessment 1 (3 online quizzes) will be divided into three parts to assess the progress of the student's knowledge of the material taught in weeks 1-4, 5-7, and 8-11. Each quiz will have 15-20 questions in mixed question styles (i.e., multiple-choice, true-or-false, and short answer). The maximum score from each quiz (5%) will be summed to form the 15% that is set for assessment 1—online Quizzes. After completing the three assessments, you must obtain 50% of the total score to pass assessment 1.

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Explain the embryologic processes that underpin anatomy, neuroanatomy and physiology of the human body
- Describe the osteology, arthrology, myology, arterial supply, venous and lymphatic drainage and innervation of the head and neck region
- Describe the structure, function and integration of components within the central and peripheral nervous system
- Apply your knowledge of anatomy, neuroanatomy and physiology to clinical case studies.

2 Closed-book Objective Structured Practical Exam (OSPE) - Part A (Online) & Part B (Face-to-Face)

Assessment Type

Practical Assessment

Task Description

This assessment will be based on the material covered in lectures, practical classes, and quizzes from all term week's content as follows:

- **Part A:** *Online* Objective Structured Practical Exam (OSPE) held in Week 7 covering material taught in Week 1-6. This assessment is entirely online, and closed-book.
- **Part B:** *Face-to-Face* Objective Structured Practical Exam (OSPE) held in Week 12 covering material taught in Week 7-11. This assessment will be completed in-person, and is entirely closed-book.

Students will be required to identify anatomical structures on labelled images/models and answer brief theoretical questions regarding the identified anatomical structures. This assessment is entirely online and entirely closed-book.

NOTE: AI Descriptor 1: No AI - The assessment is completed entirely without AI assistance, ensuring that students rely solely on their existing knowledge, understanding, and skills.

There will be no grace period associated with this assessment.

More details will be available on this unit's Moodle site.

Assessment Due Date

Week 12 Friday (10 Oct 2025) 5:00 pm AEST

Part A OSPE (online) is due in Week 7. Part B OSPE (Face-to-Face) will be completed in Week 12.

Return Date to Students

Exam Week Friday (24 Oct 2025)

Results will be returned to students within 2 weeks.

Weighting

35%

Minimum mark or grade

50%

Assessment Criteria

Students will be assessed on their ability to correctly identify anatomical structures and demonstrate correct theoretical knowledge of the structures provided.

Referencing Style

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

Submission
Offline Online

Learning Outcomes Assessed

- Identify, where appropriate, using bones, models, images and/or the living subject, the structures forming the nervous system and the head and neck region

3 Invigilated on campus test

Assessment Type
Online Test

Task Description

Assessment 3 - (End of term test) will be based on the material covered during the term, which includes lectures and recordings, practical/tutorial classes, quizzes, and any assigned complementary reading that was included over the term weeks. Students will be given a variety of question types, including short and long answers, multiple choice, true or false, diagram labelling, and filling in the missing descriptions. This final assessment will be invigilated on campus. This means you will complete the test in an assigned computer lab on campus. Ensure you use correct spelling.

NOTE: *AI Descriptor 1: No AI* - The assessment is completed entirely without AI assistance in a controlled environment, ensuring that students rely solely on their existing knowledge, understanding, and skills.

There will be no grace period associated with this assessment.

More details will be available on this unit's Moodle site.

Assessment Due Date

Review/Exam Week Thursday (16 Oct 2025) 11:00 am AEST

This assessment will occur between 9am - 11am.

Return Date to Students

Exam Week Friday (24 Oct 2025)

Within 1-2 weeks after the test is completed according to the uni policy.

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

Students will be assessed on their ability to provide the correct answers to the questions posed in this assessment. On-campus, invigilated, closed-book assessment.

Referencing Style

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

Submission

Online

Learning Outcomes Assessed

- Explain the embryologic processes that underpin anatomy, neuroanatomy and physiology of the human body
- Describe the osteology, arthrology, myology, arterial supply, venous and lymphatic drainage and innervation of the head and neck region
- Describe the structure, function and integration of components within the central and peripheral nervous system
- Apply your knowledge of anatomy, neuroanatomy and physiology to clinical case studies.

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