



CHIR12008 Neuromusculoskeletal Anatomy 2

Term 2 - 2024

Profile information current as at 29/07/2024 05:46 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 - 2024

- 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

Students felt that the presentation and assessment content would benefit from review prior to publication.

Recommendation

It is recommended that all assessments and teaching content are reviewed for quality prior to publication.

Feedback from SUTE

Feedback

Some students felt that the quality of the lecture recordings could be improved upon.

Recommendation

It is recommended that the Unit Coordinator update lecture recordings to ensure a high quality standard.

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



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 - Aboriginal and Torres Strait Islander Cultures					

Textbooks and Resources

Textbooks

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Prescribed

Head, Neck, and Neuroanatomy (THIEME Atlas of Anatomy)

3rd edition (2020)

Authors: Schuenke , Schulte , Schumacher et al

Thieme Medical Publishers (through Booktopia)

New York , NY , USA

ISBN: 9781626237223

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Prescribed

Rhoton's Atlas of Head, Neck, and Brain : 2D and 3D Images

(2017)

Authors: Peris-Celda, Martinez-Soriano, F, Rhoton, AL

Thieme Medical Publishers

ISBN: 9781604069006

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Supplementary

Brunnstrom's Clinical Kinesiology,

6th edition (2011)

Authors: Houghlum , Peggy A

FA Davis (through Eurospan)

Philadelphia , PA , USA

ISBN: 9780803623521

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Supplementary

Clinical Neurology,

10th edition (2018)

Authors: Simon, Greenberg and Aminoff

McGraw Hill Education

Columbus , OH , USA

ISBN: 9781259861727

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

Felipe Coutinho Kullmann Duarte Unit Coordinator

f.duarte@cqu.edu.au

Schedule

Week 1 - 08 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Introduction and overview of the unit Embryology of the NMSK system		

Week 2 - 15 Jul 2024

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		

Week 3 - 22 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Spinal cord anatomy and main sensory ascending, motor descending pathways and involuntary movements (spinal reflexes)		

Week 4 - 29 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
Cranium cavity, venous sinuses, meninges, ventricles and arterial supply and brain		

Week 5 - 05 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Brainstem nuclei and cranial nerves		Assessment 1: Quiz 1 Monday from 8am to 5pm Content: weeks 1 - 4

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
Neuroanatomy of the cerebellum and basal ganglia and their inputs on voluntary motor control		

Week 7 - 26 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Anatomy of the upper and lower cervical spine. Nerve supply of head and neck: (cervical plexus)		

Week 8 - 02 Sep 2024

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		Assessment 1: Quiz 2 Monday from 8am to 5pm Content: weeks 5 - 7

Week 9 - 09 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Anatomy of the face, eye, nasal cavity and paranasal sinuses.		

Week 10 - 16 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Anatomy of oral cavity, pharynx, larynx and thyroid gland and ear		

Week 11 - 23 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Neurophysiology of pain, neuro-mechanisms of spinal manipulation and safety		

Week 12 - 30 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Revision Week: Study guide		Online Quizzes Due: Week 12 Monday (30 Sept 2024) 5:00 pm AEST Online - closed book - Objective Structured Practical Exam (OSPE) Due: Week 12 Friday (4 Oct 2024) 5:00 pm AEST

Review/Exam Week - 07 Oct 2024

Module/Topic	Chapter	Events and Submissions/Topic
		Invigilated on campus test Due: Review/Exam Week Friday (11 Oct 2024) 1:00 pm AEST

Exam Week - 14 Oct 2024

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.

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

Number of Quizzes

3

Frequency of Quizzes

Other

Assessment Due Date

Week 12 Monday (30 Sept 2024) 5:00 pm AEST

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

Review/Exam Week Monday (7 Oct 2024)

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 Online - closed book - Objective Structured Practical Exam (OSPE)

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. 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.

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

Assessment Due Date

Week 12 Friday (4 Oct 2024) 5:00 pm AEST

The OSPE will open at 8am on Tuesday of week 12 and close at 5pm on Friday on the same week

Return Date to Students

Review/Exam Week Monday (7 Oct 2024)

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

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

Assessment Due Date

Review/Exam Week Friday (11 Oct 2024) 1:00 pm AEST

Friday, October 10th, starting at 11am - Assessment 3. The computer labs set for the assessment 3 are 1.06 and 1.07.

Return Date to Students

Exam Week Friday (18 Oct 2024)

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