



# CHIR12004 *Neuromusculoskeletal Anatomy 1*

## Term 1 - 2017

Profile information current as at 02/05/2024 03:51 am

All details in this unit profile for CHIR12004 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 basic anatomy taught in Human Body Systems 1 and 2. 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. An emphasis will be placed on clinical anatomy of the limbs and trunk.

### 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

Pre-requisites: BMSC11001 Human Body Systems 1 & 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 1 - 2017

- Brisbane
- Mackay
- Sydney

### Attendance Requirements

All on-campus students are expected to attend scheduled classes - in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

### Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

## Class and Assessment Overview

### Recommended Student Time Commitment

Each 6-credit 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. **Examination**

Weighting: 50%

### Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

## CQUniversity Policies

**All University policies are available on the [CQUniversity Policy site](#).**

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

## 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, student feedback, 2015 recommendation

**Feedback**

Review assessment

**Recommendation**

Discussion within the chiropractic discipline regarding possible assessment choices.

#### Feedback from self-reflection, student feedback

**Feedback**

Buy more anatomical models and bones, especially for Brisbane campus due to large student numbers.

**Recommendation**

Submit a request to the School Technical Services Manager for additional resources on the Brisbane campus as the anticipated increase in enrolment necessitates the need for more resources.

#### Feedback from self-reflection, student feedback

**Feedback**

Attain institutional access to an online anatomy learning resource eg visible body, Kenhub

**Recommendation**

Submit a request to library regarding availability or access to online anatomy learning resources for staff and students.

#### Feedback from self-reflection, student feedback

**Feedback**

Provide exposure to either prosected specimens or plastinates.

**Recommendation**

Consider introduction of student access to one or more of the following resources: a. Organise visits to anatomy museums b. Organise wet lab tutorials at an appropriate institution c. Organise access to plastinates, currently located at Rockhampton and Bundaberg campuses.

## 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 limbs and trunk.
3. Identify on bones, models, images and the living subject, the structures forming the limbs and trunk.
4. Describe the actions of the muscles, individually and collectively, of the limbs and trunk.
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 - Examination - 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					

## Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Online Quiz(zes) - 15%	•	•		•		•				
2 - Practical Assessment - 35%	•	•		•						
3 - Examination - 50%	•	•		•						

## Textbooks and Resources

## Textbooks

CHIR12004

### Prescribed

#### **Anatomy: A Photographic Atlas**

Edition: 8th (2015)

Authors: Rohen, Yokochi & Lütjen-Drecoll

Lippincott, Williams & Wilkins

Germany

ISBN: 978-1451193183

Binding: Paperback

CHIR12004

### Prescribed

#### **Clinically Oriented Anatomy**

Edition: 7th (2013)

Authors: Moore, Agur & Dalley

Lippincott, Williams & Wilkins

USA

ISBN: 978-1451119459

Binding: Paperback

CHIR12004

### Supplementary

#### **Gray's Anatomy for Students**

Edition: 3rd (2014)

Authors: Drake, Vogl & Mitchell

Elsevier

USA

ISBN: 978-0702051319

Binding: Paperback

CHIR12004

### Supplementary

#### **McMinn and Abrahams's Clinical Atlas of Human Anatomy**

Edition: 7th (2013)

Authors: Abrahams PH, Spratt JD, Loukas

Mosby

China

ISBN: 978-0723436973

Binding: Paperback

### Additional Textbook Information

- The prescribed textbook and atlas will also be used in CHIR12008 - Neuromusculoskeletal Anatomy 2 in Term 2.
- Older editions may be adequate in terms of content, although chapter/page numbers may vary.
- The supplementary textbook and atlas are considered to be adequate alternatives to the prescribed textbook and atlas.

[View textbooks at the CQUniversity Bookshop](#)

## IT Resources

**You will need access to the following IT resources:**

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Draw it to know it (available through library website)

## Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)  
For further information, see the Assessment Tasks.

## Teaching Contacts

**Dean Innis** Unit Coordinator  
[d.innis@cqu.edu.au](mailto:d.innis@cqu.edu.au)

## Schedule

### Week 1 - 06 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Overview	<ul style="list-style-type: none"><li>• Moore: Introduction plus p510 plus 672 or</li><li>• Cael: Chapters 1-3</li></ul> PLUS <ul style="list-style-type: none"><li>• McMinn: Systemic review (online) or</li><li>• Rohen: Chapter 1</li></ul>	

### Week 2 - 13 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Shoulder	<ul style="list-style-type: none"><li>• Moore Chapter 6 or</li><li>• Cael: Chapter 4</li></ul> PLUS: <ul style="list-style-type: none"><li>• McMinn Chapter 3 or</li><li>• Rohen: Chapter 7</li></ul>	

### Week 3 - 20 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Elbow	<ul style="list-style-type: none"><li>• Moore: Chapter 6 or</li><li>• Cael: Chapter 5</li></ul> PLUS: <ul style="list-style-type: none"><li>• McMinn: Chapter 3 or</li><li>• Rohen: Chapter 7</li></ul>	

### Week 4 - 27 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Wrist and hand	<ul style="list-style-type: none"><li>• Moore: Chapter 6 or</li><li>• Cael: Chapter 5</li></ul> PLUS: <ul style="list-style-type: none"><li>• McMinn: Chapter 3 or</li><li>• Rohen: Chapter 7</li></ul>	

### Week 5 - 03 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Neurovascular structures of the upper limb	<ul style="list-style-type: none"><li>• Moore: Chapter 6 or</li><li>• Cael: Chapter 4 &amp; 5</li></ul> PLUS: <ul style="list-style-type: none"><li>• McMinn: Chapter 3 or</li><li>• Rohen: Chapter 7</li></ul>	

### Vacation Week - 10 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
		Online Quiz 1 due 18:00 Sunday

### Week 6 - 17 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Hip	<ul style="list-style-type: none"> <li>• Moore: Chapter 5 or</li> <li>• Cael: Chapter 8</li> </ul> PLUS: <ul style="list-style-type: none"> <li>• McMinn: Chapter 6 or</li> <li>• Rohen: Chapter 8</li> </ul>	
<b>Week 7 - 24 Apr 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Knee	<ul style="list-style-type: none"> <li>• Moore: Chapter 5 or</li> <li>• Cael: Chapter 8</li> </ul> PLUS: <ul style="list-style-type: none"> <li>• McMinn: Chapter 6 or</li> <li>• Rohen: Chapter 8</li> </ul>	
<b>Week 8 - 01 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Ankle and foot	<ul style="list-style-type: none"> <li>• Moore: Chapter 5 or</li> <li>• Cael: Chapter 9</li> </ul> PLUS: <ul style="list-style-type: none"> <li>• McMinn: Chapter 6 or</li> <li>• Rohen: Chapter 8</li> </ul>	
<b>Week 9 - 08 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Neurovascular structures of the lower limb	<ul style="list-style-type: none"> <li>• Moore: Chapter 5 or</li> <li>• Cael: Chapters 8 &amp; 9</li> </ul> PLUS: <ul style="list-style-type: none"> <li>• McMinn: Chapter 6 or</li> <li>• Rohen: Chapter 8</li> </ul>	Online Quiz 2 due 18:00 Sunday
<b>Week 10 - 15 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Trunk wall	<ul style="list-style-type: none"> <li>• Moore: Chapter 1 &amp; 2 or</li> <li>• Cael: Chapter 7</li> </ul> PLUS: <ul style="list-style-type: none"> <li>• McMinn: Chapter 4 &amp; 5 or</li> <li>• Rohen: Chapter 3</li> </ul>	
<b>Week 11 - 22 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Trunk wall	<ul style="list-style-type: none"> <li>• Moore: Chapter 1 &amp; 2 or</li> <li>• Cael: Chapter 7</li> </ul> PLUS: <ul style="list-style-type: none"> <li>• McMinn: Chapter 4 &amp; 5 or</li> <li>• Rohen: Chapter 3</li> </ul>	
<b>Week 12 - 29 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Revision	Revision	Online Quiz 3 due 18:00 Friday
<b>Review/Exam Week - 05 Jun 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
<b>Exam Week - 12 Jun 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic

## Assessment Tasks

# 1 Online Quizzes

## Assessment Type

Online Quiz(zes)

## Task Description

There will be three online quizzes administered via Moodle. Each will be available for approximately 1 week. There will be no extension due to unforeseen technical problems or Internet connectivity, so please do not leave it to the end of the week to do it. Each online quiz will be based on the material covered in lectures, tutorials and practical classes in the weeks as outlined below. Students will be allowed one attempt only for each online quiz, which must be completed within the allotted time.

- **Online Quiz 1** covers anatomy of the upper limb (i.e. material from Weeks 1-5) and is worth 7.5%
- **Online Quiz 2** covers anatomy of the lower limb (i.e. material from Weeks 6-9) and is worth 7.5%
- **Online Quiz 3** covers anatomy of the trunk wall (i.e. material from Weeks 10-11) and is worth 5%

## Number of Quizzes

3

## Frequency of Quizzes

Other

## Assessment Due Date

Online quiz 1 is due by April 15, 18.00; Quiz 2 by May 15, 18.00 and Quiz 3 by June 3rd, 18.00.

## Return Date to Students

Results with feedback for each online quiz will be released immediately after their respective due dates.

## Weighting

15%

## Assessment Criteria

As each question in the quizzes are objective in style (e.g. multiple choice), answers will be automatically marked as either correct or incorrect. Some questions will require you to demonstrate a knowledge of facts, while others will require the use of interpretive or analytical skills.

## Referencing Style

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

## 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 limbs and trunk.
- Describe the actions of the muscles, individually and collectively, of the limbs and trunk.
- Apply your knowledge of anatomy, neuroanatomy and physiology to clinical case studies.

## Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- Information Technology Competence

# 2 Practical Assessment

## Assessment Type

Practical Assessment

## Task Description

This will be based on the material covered in lectures, practical classes and assigned homework from Weeks 1-11. Students will be required to identify anatomical structures on models and images, and answer brief theoretical questions regarding the identified anatomical structures. All answers will be written down on a purpose-made answer-sheet. The assessment will take approximately one hour.

Students will rotate through a number of stations, each of which will focus on a specific body region.



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

### **Assessment Due Date**

The test will be conducted during your designated practical class in week 12.

### **Return Date to Students**

Marks will be available within 1 week of the exam.

### **Weighting**

35%

### **Minimum mark or grade**

50

### **Assessment Criteria**

Marks will be allocated based on:

1. Accuracy of the answer
2. Specificity of the answer (eg *head of radius*, NOT *radius* nor *head*)
3. Spelling accuracy: Either Australian, UK or USA spelling will be acceptable. If spelling is not completely correct, but is phonetically correct, you will receive 75% of the allocated mark for that question.

For example, consider a question worth 1 mark, for which the answer is *scaphoid*. However, you spell it *scaphoyd* or *scafoid*. You will be given 0.75 marks, rather than 1.0 mark.

### **Referencing Style**

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

### **Submission**

Offline

### **Submission Instructions**

The test will be conducted in class time.

### **Learning Outcomes Assessed**

- Identify on bones, models, images and the living subject, the structures forming the limbs and trunk.
- Describe the actions of the muscles, individually and collectively, of the limbs and trunk.

### **Graduate Attributes**

- Communication
- Problem Solving
- Information Literacy

## **Examination**

### **Outline**

Complete an invigilated examination.

### **Date**

During the examination period at a CQUniversity examination centre.

### **Weighting**

50%

### **Length**

120 minutes

### **Exam Conditions**

Closed Book.

### **Materials**

No calculators permitted

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

## 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