



BMSC11008 Medical Anatomy and Physiology 2

Term 2 - 2019

Profile information current as at 05/05/2024 02:18 am

All details in this unit profile for BMSC11008 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

In this unit, you will learn to apply anatomical terminology and the concept of levels of organisation when describing the human body and its systems. You will describe the anatomical features, function and physiological regulation of the musculoskeletal, cardiovascular, nervous and integumentary human body systems. In addition, you will study the anatomical and physiological relations involved in human movement including the effects of use, disuse and ageing on the head and neck, thorax, abdomen, back and upper limbs.

Details

Career Level: *Undergraduate*

Unit Level: *Level 1*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

This unit is for students from these courses only: CB66 - Bachelor of Health Science (Allied Health), CB84 - Bachelor of Occupational Therapy (Honours), CB85 - Bachelor of Physiotherapy (Honours), CB86 - Bachelor of Podiatry (Honours), CB87 - Bachelor of Speech Pathology (Honours).

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 - 2019

- Bundaberg
- Mixed Mode
- Rockhampton
- 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).

Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are: Click here to see your [Residential School Timetable](#).

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: 50%

2. **Practical Assessment**

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](#).

Unit Learning Outcomes

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

1. Describe the anatomical features, function and physiological regulation of the cells, tissues, and organs of the musculoskeletal, cardiovascular, nervous and integumentary human body systems
2. Identify and describe anatomical structures of the normal human body focusing on musculoskeletal and neurovascular structures of the head and neck, thorax, abdomen, back and upper limbs
3. Explain the anatomical and physiological relations involved in human movement
4. Describe the human body's response to use, disuse and ageing across the lifespan
5. Apply anatomical terminology and the concept of levels of organisation when describing the human body and its systems.

This unit was created to meet the accreditation requirements of the allied health courses.

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) - 50%	•	•	•	•	•
2 - Practical Assessment - 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					

Graduate Attributes

Learning Outcomes

1 2 3 4 5

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) - 50%

•	•	•	•		•					
•	•		•					•		

2 - Practical Assessment - 50%

Textbooks and Resources

Textbooks

BMSC11008

Prescribed

Gray's Anatomy for Students

Edition: 3 (2014)

Authors: Richard Drake, A. Wayne Vogl, Adam W. M. Mitchel

Elsevier Health Sciences

United Kingdom

ISBN: 9780702051319

Binding: Paperback

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Supplementary

McMinn and Abrahams' Clinical Atlas of Human Anatomy

Edition: 7 (2013)

Authors: Peter H. Abrahams, Jonathan D. Spratt, Marios Loukas, Albert-Neels van Schoor

Elsevier Health Sciences

United Kingdom

ISBN: 9780723436973

Binding: Paperback

Additional Textbook Information

Both books are available to purchase from 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)
- Anatomedia

Referencing Style

All submissions for this unit must use the referencing style: [American Psychological Association 6th Edition \(APA 6th edition\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Charmaine Ramlogan-Steel Unit Coordinator

c.ramlogan-steel@cqu.edu.au

Schedule

Week 1 - 15 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
Introduction and Terminology Discussion: The Role of the Cardiovascular System in Body Maintenance and Physiological Regulation Regional Anatomy: The Shoulder	Gray: Ch 1 - The Body (pp 1-50). Gray: Ch 7 - Upper Limb (pp 685-749). <i>Read until regional anatomy of arm.</i> Martini: Ch 21 - Blood Vessels and Circulation (pp 774-821).	

Week 2 - 22 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: The Arm and Elbow	Gray: Ch 7 - Upper Limb (pp 750-770). <i>Read regional anatomy of arm until forearm.</i>	

Week 3 - 29 Jul 2019

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: The Forearm and Wrist	Gray: Ch 7 - Upper Limb (pp 770-791). <i>Read regional anatomy of forearm until hand.</i>	

Week 4 - 05 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: The Hand Discussion: Upper Limb Function and the effects of use and disuse across the Lifespan	Gray: Ch 7 - Upper Limb (pp 792-818). <i>Read regional anatomy of hand.</i>	Progress Quiz 1 opens on Friday Week 4, 9:00 AM (AEST) and closes on Friday Week 5, 17:00 PM (AEST).

Week 5 - 12 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: The Trunk - Bones and Joints	Gray: Ch 2 - Back (pp 53-83). <i>Read until regional anatomy of back musculature.</i> Gray: Ch 3 - Thorax (pp 143-150). <i>Read skeletal framework section.</i>	

Vacation Week - 19 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 26 Aug 2019

Module/Topic	Chapter	Events and Submissions/Topic
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Regional Anatomy: The Trunk - Muscles

Gray: Ch 2 - Back (pp 84 - 98). *Read regional anatomy of back musculature.*
 Gray: Ch 3 - Thorax (pp 150-162). *Read intercostal spaces until pleural cavities.*
 Gray: Ch 4 - Abdomen (pp 282-287, 367-371). *Read sections on anterolateral muscles and posterior abdominal wall.*

Week 7 - 02 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: The Trunk - Neurovascular Supply	Gray: Ch 3 - Thorax (pp 162-240). <i>Read sections on pleural cavities and mediastinum.</i> Gray: Ch 4 - Abdomen (pp 303-309, 343-409). <i>Read sections on abdominal viscera and posterior abdominal region and surface anatomy.</i> Martini: Ch 23 - The Respiratory System (pp 881-925). Martini: Ch 24 - The Digestive System (pp 931-978).	Progress Quiz 2 opens on Friday Week 7, 9:00 AM (AEST) and closes on Friday Week 8, 17:00 PM (AEST).

Week 8 - 09 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: The Head and Neck - Bones and Joints	Gray: Ch 8 - Head and Neck (pp 835-872, 927-931, 934-935, 966, 972-976, 993, 1041, 1069-1079, 1087-1090, 1114-1119). <i>Read conceptual overview AND regional anatomy sections on skull, cranial cavity, bony orbit, temporomandibular joint, skeletal framework sections and teeth.</i>	

Week 9 - 16 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: The Head and Neck - Muscles Discussion: Head and Neck Function and effects of use and disuse across the lifespan	Gray: Ch 8 - Head and Neck (pp 904-910, 936-940, 977, 1007-1009, 1024, 1042-1044, 1061-1063, 1092-1099). <i>Read regional anatomy sections on muscles of face, orbit, mastication, neck, pharynx, larynx and tongue.</i>	Progress Quiz 3 opens on Friday Week 9, 9:00 AM (AEST) and closes on Friday Week 10, 17:00 PM (AEST).

Week 10 - 23 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: The Head and Neck - Vascular Supply	Gray: Ch 8 - Head and Neck (pp 873-893, 925-926, 1003-1005, 1049-1050, 1066-1067, 1082-1084). <i>Read regional anatomy sections on meninges and blood supply of brain, face, scalp, orbit, neck, pharynx, larynx and nasal cavities.</i>	

Week 11 - 30 Sep 2019

Module/Topic	Chapter	Events and Submissions/Topic

Regional Anatomy: The Head and Neck - Nerve Supply

Gray: Ch 8 - Head and Neck (pp 894-903, 914-916, 942-946, 1051, 1068, 1085-1086). *Read regional anatomy sections on cranial nerves and innervation of face, scalp, orbit, pharynx, larynx, nasal cavities, oral cavity and muscles.*

Progress Quiz 4 opens on Friday Week 11, 9:00 AM (AEST) and closes on Friday Week 12, 17:00 PM (AEST).

Week 12 - 07 Oct 2019

Module/Topic	Chapter	Events and Submissions/Topic
Residential School and Practical Assessment	Residential School: Compulsory for Mixed Mode Students Practical Assessment: ALL Students	Mixed Mode Students: Residential School in ROK All Students: Practical Assessment (BDG, ROK or SYD)

Term Specific Information

The Unit Coordinator is Dr. Charmaine Ramlogan-Steel (c.ramlogan-steel@cqu.edu.au; tel: (07) 4930 6393). Dr. Ramlogan-Steel is a medial doctor who has completed 2 post-doctoral fellowships in medical research in areas of cancer, hematology and ophthalmology.

- The lectures are delivered live each week in ROK (ISL to BDG and SYD) by Dr. Charmaine Ramlogan-Steel.
- The tutorials and practical sessions are delivered live each week in ROK, BDG and SYD.
- Weekly lectures and tutorials are recorded and uploaded to Moodle for all students to access.
- The forums on the Moodle site are checked by Dr. Charmaine Ramlogan-Steel.

Weekly Practical sessions are COMPULSORY for all internal students. In order to undertake the final practical assessment, you have to attend these sessions at your local campus. Residential School in ROK in Week 12 is COMPULSORY for MIX students. In order to undertake the final practical assessment, you have to attend this offering in ROK.

Assessment Tasks

1 ONLINE QUIZZES

Assessment Type

Online Quiz(zes)

Task Description

An understanding of human anatomy and physiology is essential to many health professions. The fundamentals of this knowledge must be learnt and understood. The various health professions you have chosen to study have selected the knowledge and concepts taught in this unit as relevant to your future scope of practice.

1. There will be four separate online quizzes to assess your knowledge of the unit material.
2. The weighting for each quiz is outlined below.
3. You are allowed three attempts on each quiz. It is not compulsory to attempt the quiz three times. The attempt where you achieved the highest grade will serve as your final score for that quiz.
4. There is a minimum mark requirement in the assessment task: 50% on the cumulative score of all four quizzes (1-4).
5. In the absence of an approved extension, there will be no opportunity to complete the task after the assigned date.
6. Dates that each quiz open and close are outlined below. Each quiz must be completed on or before the due date listed.

QUIZ NUMBER	TOPIC EXAMINED	WEIGHTING	TIME/DATE QUIZ OPENS	TIME/DATE QUIZ CLOSES
1	Weeks 1,2,3,4	15%	9:00 AM (AEST) Friday Week 4	17:00 PM (AEST) Friday Week 5
2	Weeks 5,6,7	15%	9:00 AM (AEST) Friday Week 7	17:00 PM (AEST) Friday Week 8
3	Weeks 8,9	10%	9:00 AM (AEST) Friday Week 9	17:00 PM (AEST) Friday Week 10

4	Weeks 10,11	10%	9:00 AM (AEST) Friday Week 11	17:00 PM (AEST) Friday Week 12
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Number of Quizzes

4

Frequency of Quizzes

Other

Assessment Due Date

Return Date to Students

Weighting

50%

Minimum mark or grade

50% cumulative

Assessment Criteria

Questions will be automatically marked correct or incorrect at the completion of the quiz. The maximum score that can be accumulated from the four online quizzes equals 50% of the total unit marks. The 50% minimum mark requirement is on the cumulative score of all four quizzes.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Online

Learning Outcomes Assessed

- Describe the anatomical features, function and physiological regulation of the cells, tissues, and organs of the musculoskeletal, cardiovascular, nervous and integumentary human body systems
- Identify and describe anatomical structures of the normal human body focusing on musculoskeletal and neurovascular structures of the head and neck, thorax, abdomen, back and upper limbs
- Explain the anatomical and physiological relations involved in human movement
- Describe the human body's response to use, disuse and ageing across the lifespan
- Apply anatomical terminology and the concept of levels of organisation when describing the human body and its systems.

Graduate Attributes

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

2 PRACTICAL ASSESSMENT

Assessment Type

Practical Assessment

Task Description

In the clinical context health professionals are expected to have an in-depth knowledge and understanding of anatomical structures, physiological systems and their interrelation. In a university simulation setting, you will take part in practical learning activities with anatomical models, bones and real plastinated human bodies for the purpose of familiarization with these structures.

In this practical assessment, you will:

1. Identify anatomical structures of the skeletal, muscular and neurovascular systems of the upper limb, head and neck, thorax, back and abdomen on anatomical models, bones and real plastinated human bodies.
2. Explain the role of the respiratory, cardiovascular and digestive system in body maintenance and physiological regulation.
3. Explain how anatomy and function are interrelated.
4. Explain the normal function of human movement.
5. Analyze how the human body responds to use and disuse across the lifespan.

The practical assessment is worth 50% of your overall mark for the unit. It consists of approximately 20 stations set up around the laboratory, each with specimens including models, bones and plastinates where structures will be clearly

labelled. At each station, there will be a station identifier and a list of questions. Questions in the practical assessment will consist of brief identification or function of labelled structures and associated structures including innervation and blood supply. Questions will cover bones, muscles, joints, nerves, blood vessels, viscera and supporting structures in the head and neck, back, thorax, abdomen and upper limb. Students are responsible for all content covered in class for the entire term, that is visible on the specimens that we have, with particular emphasis placed on the practical activities. The practical assessment is approximately 1 hour in duration. After a set period of time, you will rotate to the next station and repeat this until you have been to all stations. There will be 1 student at each station at a time. You will be given an answer sheet on which to write your answers. The practical assessment is closed book so the only things you will be allowed to have on you are pens (blue or black ink please), your answer sheet and ID (e.g., Student ID or driver's licence).

Assessment Due Date

All students take the practical assessment in person in Week 12 in either ROK, BDG or SYD. The exact time will be posted on Moodle.

Return Date to Students

Weighting

50%

Minimum mark or grade

50%

Assessment Criteria

For the practical assessment, your responses are scored according to the following criteria:

- correctness, relevance and completeness of the response to the question asked
- correct spelling and use of anatomical and physiological terminology

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Offline

Learning Outcomes Assessed

- Describe the anatomical features, function and physiological regulation of the cells, tissues, and organs of the musculoskeletal, cardiovascular, nervous and integumentary human body systems
- Identify and describe anatomical structures of the normal human body focusing on musculoskeletal and neurovascular structures of the head and neck, thorax, abdomen, back and upper limbs
- Explain the anatomical and physiological relations involved in human movement
- Describe the human body's response to use, disuse and ageing across the lifespan
- Apply anatomical terminology and the concept of levels of organisation when describing the human body and its systems.

Graduate Attributes

- Communication
- Problem Solving
- Information Literacy
- 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