



BMSC11007 Medical Anatomy and Physiology 1

Term 3 - 2023

Profile information current as at 27/04/2024 08:18 am

All details in this unit profile for BMSC11007 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 study the gross anatomy and physiology of the musculoskeletal, cardiovascular, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive human body systems. You will apply this knowledge in laboratory sessions using anatomical models and plastinates through a series of practical exercises. You will study homeostatic mechanisms and physiological responses in the human body. In addition, you will gain an appreciation of the integrative nature of anatomy and physiology of the human body with special emphasis on the study of the pelvic region and the lower 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), CM17 Bachelor of Medical Science (Pathway to Medicine), CG93 Bachelor of Medical Sciences (Clinical Physiology)

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 3 - 2023

- Mixed Mode

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](#).

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 they needed more time to review the content of the live lecture prior to attending the internal lab class

Recommendation

Consider allowing more time between lecture and labs for students to review the content

Feedback from SUTE

Feedback

Students appreciated the different resources made available for their study

Recommendation

Continue to update and provide learning resources to cater for different learning styles

Feedback from Self reflection and staff feedback

Feedback

Engagement in the practical activities is important for student learning

Recommendation

Encourage attendance to the lab activities, in addition to self directed study in the labs, to consolidate student learning

Unit Learning Outcomes

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

1. Identify the gross anatomical structures of the musculoskeletal, cardiovascular, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive systems of the human body
2. Describe the physiological mechanisms of the musculoskeletal, cardiovascular, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive systems of the human body
3. Explain homeostatic mechanisms and their essential role in physiological responses in the human body
4. Describe the anatomical features of the human body focusing on musculoskeletal and neurovascular structures of the pelvis, perineum, and lower limbs
5. Explain the anatomical and physiological relationships of the human body focusing on the pelvis, perineum, and lower limbs.

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					
10 - Aboriginal and Torres Strait Islander Cultures					

Textbooks and Resources

Textbooks

BMSC11007

Prescribed

GRAY'S ANATOMY FOR STUDENTS

Edition: 4 (2019)

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

Elsevier Health Sciences

Great Britain

ISBN: 9780323393041

Binding: Paperback

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Supplementary

MCMINN AND ABRAHAMS' CLINICAL ATLAS OF HUMAN ANATOMY

Edition: 8 (2019)

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

Elsevier Health Sciences

Great Britain

ISBN: 9780702073328

Binding: Paperback

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Complete Anatomy

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

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Schedule

Week 1 - 06 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
Introduction, Cells and Tissues	Gray: Ch 1 - The Body (pp 2-4)	
Systemic Anatomy and Physiology:	Martini: Ch 4 - The Tissue Level of Organization (pp 161-188)	
Musculoskeletal System 1 - Bones	Martini: Ch 6 - Bones and Bone Structure (pp 226-250)	

Week 2 - 13 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
Systemic Anatomy and Physiology: Musculoskeletal System 2 - Joints Systemic Anatomy and Physiology: Musculoskeletal System 3 - Muscles	Martini: Ch 4 - The Tissue Level of Organization (pp 188-190) Martini: Ch 10 - Muscle Tissue (pp 338-357, 361-365, 373-376) Martini: Ch 11 - The Muscular System (pp 383-387)	

Week 3 - 20 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
Systemic Anatomy and Physiology: Cardiovascular and Lymphatic Systems	Gray: Ch 1 - The Body (Cardiovascular and Lymphatic Systems pp 25-28) Gray: Ch 3 - Thorax (Middle Mediastinum pp 185-215) Martini: Ch 22 - The Lymphatic System and Immunity (pp 832-842)	Progress Quiz 1 Opens: Wednesday, Week 3 at 9:00 AM (AEST)

Week 4 - 27 Nov 2023

Module/Topic	Chapter	Events and Submissions/Topic
Systemic Anatomy and Physiology: Respiratory and Gastrointestinal Systems	Gray: Ch 3 - Thorax (Pleural Cavities pp 166-181) Gray: Ch 4 - Abdomen (Abdominal viscera - organs pp 307-338)	Progress Quiz 1 Closes: Monday, Week 4 at 9:00 PM (AEST)

Vacation Week - 04 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
No formal teaching		

Week 5 - 11 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
Systemic Anatomy and Physiology: Nervous and Endocrine Systems	Gray: Ch 1 - The Body (Nervous System pp 29-47) Gray: Ch 2 - Back (Spinal cord pp 101-113) Gray: Ch 8 - Head and Neck (Meninges & Brain and its blood supply pp 861-877) Martini: Ch 4 - The Tissue Level of Organization (pp 190-193) Martini: Ch 12 - Nervous Tissue (pp 436-462)	

Week 6 - 18 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
Systemic Anatomy and Physiology: Urinary and Reproductive Systems	Gray: Ch 4 - Abdomen (Posterior abdominal wall viscera pp 374-387) Gray: Ch 5 - Pelvis and Perineum (Pelvis viscera pp 452-475)	Progress Quiz 2 Opens: Wednesday, Week 6 at 9:00 AM (AEST)

Vacation Week - 25 Dec 2023

Module/Topic	Chapter	Events and Submissions/Topic
No formal teaching		

Week 7 - 01 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: Pelvis and Perineum	Gray: Ch 5 - Pelvis and Perineum (pp 415-452, 475-524)	Progress Quiz 2 Closes: Tuesday, Week 7 at 9:00 PM (AEST)

Week 8 - 08 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic

Regional Anatomy: Hip and Gluteal Region

Gray: Ch 6 - Lower Limb (Introduction until regional anatomy of the thigh pp 527-575)

Week 9 - 15 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: Thigh	Gray: Ch 6 - Lower Limb (Regional anatomy of the thigh pp 575-598)	<u>Progress Quiz 3</u> Opens: Wednesday, Week 9 at 9:00 AM (AEST)

Week 10 - 22 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: Knee and Leg	Gray: Ch 6 - Lower Limb (Regional anatomy of the knee and leg pp 598-627)	<u>Progress Quiz 3</u> Closes: Monday, Week 10 at 9:00 PM (AEST)

Week 11 - 29 Jan 2024

Module/Topic	Chapter	Events and Submissions/Topic
Regional Anatomy: Ankle and Foot	Gray: Ch 6 - Lower Limb (Regional anatomy of the foot pp 627-670)	<u>Progress Quiz 4</u> : Opens Monday, Week 11 at 9:00 AM (AEST) <u>Residential School</u> : Rockhampton Only. Wednesday to Friday, Week 11. Details on Moodle. <u>Practical Assessment</u> : Saturday, Week 11. Times: TBA via Moodle.

Week 12 - 05 Feb 2024

Module/Topic	Chapter	Events and Submissions/Topic
		<u>Progress Quiz 4</u> Closes: Wednesday, Week 12 at 9:00 PM (AEST)

Term Specific Information

All lectures, tutorial and practical videos have been previously recorded.

A face to face residential school is scheduled for Wednesday to Friday of Week 11 (January 31 to February 2, 2024) which will be followed by a final practical assessment on the Saturday (February 3, 2024) immediately following residential school.

Supplementary Practical Assessments (if given at certification of grades) will be held in Rockhampton only, unless advised otherwise.

Assessment Tasks

1 PROGRESS 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 topic examined, weighting and the dates that each quiz open and close are outlined below. Each quiz **must be** completed during the specified times. In the absence of an approved extension, there will be no opportunity to complete the task after the assigned date.
3. You are allowed **ONE** attempt on each quiz. Once you start the quiz, you will have a set time to complete it.

Further details will be provided on Moodle.

- This is a MUST PASS Assessment. The minimum mark required to pass this assessment task: 50% of the cumulative marks of all four quizzes (1-4).

QUIZ	TOPIC EXAMINED	WEIGHTING	TIME/DATE QUIZ OPENS	TIME/DATE QUIZ CLOSES
1	Weeks 1, 2, 3	10%	9:00 AM (AEST) Wednesday, Week 3	21:00 PM (AEST) Monday, Week 4
2	Weeks 4, 5, 6	15%	9:00 AM (AEST) Wednesday, Week 6	21:00 PM (AEST) Tuesday, Week 7
3	Weeks 7, 8, 9	15%	9:00 AM (AEST) Wednesday, Week 9	21:00 PM (AEST) Monday, Week 10
4	Weeks 10, 11	10%	9:00 AM (AEST) Monday, Week 11	21:00 PM (AEST) Wednesday, Week 12

Number of Quizzes

4

Frequency of Quizzes

Assessment Due Date

See "Task Description" above

Return Date to Students

Immediately upon quiz completion

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 Progress Quizzes equals 50% of the total unit marks. The 50% minimum mark requirement is on the cumulative score of all four quizzes, not on individual quizzes.

Referencing Style

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

Submission

Online

Submission Instructions

Only individual attempts and submission on all quizzes. No group attempts or submission allowed.

Learning Outcomes Assessed

- Identify the gross anatomical structures of the musculoskeletal, cardiovascular, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive systems of the human body
- Describe the physiological mechanisms of the musculoskeletal, cardiovascular, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive systems of the human body
- Explain homeostatic mechanisms and their essential role in physiological responses in the human body
- Describe the anatomical features of the human body focusing on musculoskeletal and neurovascular structures of the pelvis, perineum, and lower limbs
- Explain the anatomical and physiological relationships of the human body focusing on the pelvis, perineum, and lower limbs.

2 PRACTICAL ASSESSMENT

Assessment Type

Practical Assessment

Task Description

In the clinical context, health professionals are expected to have 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 body systems and the skeletal, muscular and neurovascular systems of the pelvis, perineum and lower limb.
2. Describe different physiological mechanisms of body systems.
3. Identify and/or describe individual variations of the human body in relation to systemic anatomy and regional anatomy of the pelvis, perineum and lower limb.
4. Explain how anatomy and physiology are interrelated.

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 of or stating the function of labelled structures and associated structures, innervation and blood supply. Questions will cover bones, muscles, joints, nerves, blood vessels, viscera and supporting structures in the body systems, pelvis, perineum and lower limb. There will be 2 rest times during the assessment as well as one at the end of the assessment. Students may use this time to review answers but are not allowed to move around the laboratory. Students are responsible for all content covered in class for the entire term, that is visible on the specimens in the anatomy laboratory, with particular emphasis placed on the practical activities.

The practical assessment is approximately 75 minutes in duration. There will be 1 student at each station at a time. After a set period of time, you will rotate to the next station and repeat this process until you have been to all stations. You will be given an answer sheet on which to write your answers. This assessment is closed book so the only things you will be allowed to have on you are pens (blue or black ink only), your answer sheet and photo ID (e.g., student ID or driver's license).

Assessment Due Date

All students undertake the practical assessment in person in Rockhampton. The practical assessment will be held on Saturday of week 11. Times TBA via Moodle.

Return Date to Students

Within 2 weeks of undertaking practical assessment

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 7th Edition \(APA 7th edition\)](#)

Submission

Offline

Submission Instructions

Hard copy of answer sheet to be returned directly on completion of the practical assessment.

Learning Outcomes Assessed

- Identify the gross anatomical structures of the musculoskeletal, cardiovascular, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive systems of the human body
- Describe the physiological mechanisms of the musculoskeletal, cardiovascular, lymphatic, digestive, respiratory,

- nervous, endocrine, urinary, and reproductive systems of the human body
- Describe the anatomical features of the human body focusing on musculoskeletal and neurovascular structures of the pelvis, perineum, and lower limbs
- Explain the anatomical and physiological relationships of the human body focusing on the pelvis, perineum, and lower limbs.

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