BMSC11007 *Medical Anatomy and Physiology 1*
Term 1 - 2019

Profile information current as at 27/04/2024 09:33 pm

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, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive 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 pelvic region, perineum and 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).
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 - 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, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive human body systems
2. Identify and describe anatomical structures of the normal human body focusing on musculoskeletal and neurovascular structures of the pelvis, perineum, and lower limbs
3. Explain the anatomical and physiological relations involved in human movement
4. Describe the human body's response to use, disuse and aging 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 in relation to musculoskeletal and neurovascular anatomy and physiology.

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) - 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	•			•	

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
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) - 50%	•	•	•	•		•				
2 - Practical Assessment - 50%	•	•		•				•		

Textbooks and Resources

Textbooks

BMSC11007

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)

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 - 11 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Introduction, Cells & Tissues Musculoskeletal System 1: Bone	Gray: Ch 1 - The Body (pp 1-4) Martini: Ch 4 - The Tissue Level of Organisation (pp 109-134) Martini: Ch 6 - Osseous Tissue & Bone Structure (pp 170-193)	

Week 2 - 18 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Musculoskeletal System 2: Muscle Musculoskeletal System 3: Joints	Martini: Ch 4 - The Tissue Level of Organisation (pp 134-136) Martini: Ch 10 - Muscle Tissue (pp 280-285, 302-305, 313-315) Martini: Ch 11 - The Muscular System (pp 323-327)	

Week 3 - 25 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Cardiovascular System & Lymphatic System	Gray: Ch 3 - Thorax (pp 180-210: middle mediastinum) Martini: Ch 22 - Lymphatics (pp 765-766)	Quiz 1 opens on Friday Week 3, 9:00 AM (AEST) and closes on Friday Week 4, 17:00 PM (AEST).

Week 4 - 01 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Respiratory System & Gastrointestinal System	Gray: Ch 3 - Thorax (pp 163-180: pleural cavities) Gray: Ch 4 - Abdomen (pp 310-342: organs-abdominal viscera)	

Week 5 - 08 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Nervous System and Endocrine System	Gray: Ch 1 - The Body (pp 31-48: nervous system) Gray: Ch 2 - Back (pp 99-110: spinal cord) Gray: Ch 8 - Head & Neck (pp 876-893: meninges, brain and its blood supply) Martini: Ch 4 - The Tissue Level of Organisation (pp 137-139) Martini: Ch 12 - Neural Tissue (pp 375-380, 386-404)	

Vacation Week - 15 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Week 6 - 22 Apr 2019		
Module/Topic	**Chapter**	**Events and Submissions/Topic**
Urinary System & Reproductive System	Gray: Ch 4 - Abdomen (pp 373-387: posterior abdominal region viscera) Gray: Ch 5 - Pelvis and Perineum (pp 460-481: pelvic viscera)	Quiz 2 opens Friday Week 6, 9:00 AM (AEST) and closes on Friday Week 7, 17:00 PM (AEST).
Week 7 - 29 Apr 2019		
Module/Topic	**Chapter**	**Events and Submissions/Topic**
Regional Anatomy: Pelvis & Perineum	Gray: Ch 5 - Pelvis & Perineum (pp 423-460, 481-526: remainder of chapter 5)	
Week 8 - 06 May 2019		
Module/Topic	**Chapter**	**Events and Submissions/Topic**
Regional Anatomy: Hip & Gluteal Region	Gray: Ch 6 - Lower Limb (pp 535-583)	
Week 9 - 13 May 2019		
Module/Topic	**Chapter**	**Events and Submissions/Topic**
Regional Anatomy: Thigh	Gray: Ch 6 - Lower Limb (pp 583-606: regional anatomy of the thigh)	
Week 10 - 20 May 2019		
Module/Topic	**Chapter**	**Events and Submissions/Topic**
Regional Anatomy: Knee & Leg	Gray: Ch 6 - Lower Limb (pp 606-633: regional anatomy of the knee and leg)	
Week 11 - 27 May 2019		
Module/Topic	**Chapter**	**Events and Submissions/Topic**
Regional Anatomy: Ankle & Foot	Gray: Ch 6 - Lower Limb (pp 633-662: regional anatomy of the foot)	Quiz 3 opens on Friday Week 11, 9:00 AM (AEST) and closes on Friday Week 12, 17:00 PM (AEST).
Week 12 - 03 Jun 2019		
Module/Topic	**Chapter**	**Events and Submissions/Topic**
Residential School & Practical Assessment.	Residential School: Compulsory for Mixed Mode students. Practical Assessment: All Students	Mixed Mode Students: Compulsory Residential School in ROK. All Students: Practical Assessment.

Term Specific Information

The Unit Coordinator is Dr. Charmaine Ramlogan-Steel (c.ramlogan-steel@cqu.edu.au; tel 0749306393). Dr. Ramlogan-Steel is a medical 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 are delivered live each week in ROK, BDG and SYD.
- Weekly lectures and tutorials will be recorded and uploaded to Moodle for all students to access.
- Compulsory Residential School in ROK in Week 12 for mixed-mode students.

The forums on the Moodle site are checked by Dr. Charmaine Ramlogan-Steel.

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 three separate online quizzes to assess your knowledge of the unit material.
2. The number of questions and 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 three quizzes (1-3).
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	TOPIC	QUESTIONS	WEIGHTING	TIME/DATE QUIZ OPENS	TIME/DATE QUIZ CLOSES
1	Week 1,2,3	10	10%	9:00 AM (AEST) Friday Week 3	17:00 PM (AEST) Friday Week 4
2	Week 4,5,6	15	15%	9:00 AM (AEST) Friday Week 6	17:00 PM (AEST) Friday Week 7
3	Week 7,8,9,10,11	25	25%	9:00 AM (AEST) Friday Week 11	17:00 PM (AEST) Friday Week 12

Number of Quizzes
3

Frequency of Quizzes
Other

Assessment Due Date

See "Task Description" above

Return Date to Students

Immediately upon quiz closure

Weighting
50%

Minimum mark or grade
50%

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 three Online Quizzes equals 50% of the total unit marks. The 50% minimum mark requirement is on the cumulative score of all three 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, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive human body systems
- Identify and describe anatomical structures of the normal human body focusing on musculoskeletal and neurovascular structures of the pelvis, perineum, and lower limbs
- Explain the anatomical and physiological relations involved in human movement
- Describe the human body’s response to use, disuse and aging 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 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 spine, pelvis, perineum and lower limb.
2. Describe the different functions of human anatomy.
3. Explain the individual variations of human anatomy.
4. Explain how anatomy and function 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 that lists the questions. Questions in the practical assessment will consist of brief identification or 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. 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 only), your answer sheet and ID (e.g., driver's license).

Assessment Due Date

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

Return Date to Students

Within 2 weeks of assessment date

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

Submission Instructions
Hard Copy, Practical Assessment

Learning Outcomes Assessed

- Describe the anatomical features, function and physiological regulation of the cells, tissues, and organs of the musculoskeletal, cardiovascular, lymphatic, digestive, respiratory, nervous, endocrine, urinary, and reproductive human body systems
- Identify and describe anatomical structures of the normal human body focusing on musculoskeletal and neurovascular structures of the pelvis, perineum, and lower limbs
- Explain the anatomical and physiological relations involved in human movement
- Describe the human body's response to use, disuse and aging 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