



# BMSC11010 Human Anatomy and Physiology 1

## Term 1 - 2024

Profile information current as at 01/05/2024 05:01 pm

All details in this unit profile for BMSC11010 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

Upon successful completion of this unit, you will be able to describe the structural levels of organisation within the body, use anatomical terminology to describe the relative location of structures in the body, and explain the role and general features of homeostasis in the body. You will also gain an understanding of the anatomy and physiology of the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary, and reproductive human body systems. Your knowledge and skills will be developed through a series of coursework exercises.

### Details

Career Level: *Undergraduate*

Unit Level: *Level 1*

Credit Points: 6

Student Contribution Band: 9

Fraction of Full-Time Student Load: 0.125

### Pre-requisites or Co-requisites

There are no requisites for this unit.

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 - 2024

- Brisbane
- Online
- Rockhampton

### 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: 40%

#### 2. **Online Test**

Weighting: 60%

### 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 Feedback during tutorials.

**Feedback**

Students indicated the tutorial questions were useful for learning and assessment preparation.

**Recommendation**

Continue to provide questions for discussion during the tutorials.

#### Feedback from Unit Coordinator reflection

**Feedback**

Students indicated the lecture structure of smaller recordings beneficial for their learning.

**Recommendation**

Continue to provide the lectures in this format.

#### Feedback from Feedback on Teams and during PASS & ALC sessions.

**Feedback**

Students indicated the PASS and ALC sessions were helpful for their study strategies and learning.

**Recommendation**

Continue to provide PASS and ALC support.

## Unit Learning Outcomes

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

1. Identify the structural levels of organisation and anatomical structures using medical terminology
2. Identify the general features and role of homeostasis in the body
3. Describe the human anatomy of integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary and reproductive systems
4. Describe the human physiology of integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary and reproductive systems
5. Discuss the interactions between structure and function in each of the human body systems
6. Discuss the application of human anatomy and physiology relevant to your discipline.

In courses that are externally accredited, the learning outcomes are linked to the national standards of the respective professional organisation/s.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

| Assessment Tasks           | Learning Outcomes |   |   |   |   |   |
|----------------------------|-------------------|---|---|---|---|---|
|                            | 1                 | 2 | 3 | 4 | 5 | 6 |
| 1 - Online Quiz(zes) - 40% | •                 | • | • | • | • | • |
| 2 - Online Test - 60%      | •                 | • | • | • | • | • |

### Alignment of Graduate Attributes to Learning Outcomes

| Graduate Attributes                                 | Learning Outcomes |   |   |   |   |   |
|---|-------------------|---|---|---|---|---|
|   | 1                 | 2 | 3 | 4 | 5 | 6 |
| 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) - 40% | •                   |   |   | • |   | • |   |   |   |    |
| 2 - Online Test - 60%      | •                   |   |   | • |   | • |   |   |   |    |

## Textbooks and Resources

### Textbooks

BMSC11010

#### Prescribed

##### **Anatomy and Physiology**

Edition: 2022 (2022)

Authors: J. Gordon Betts, Kelly A. Young, James A. Wise, Eddie Johnson, Brandon Poe, Dean H. Kruse, Oksana Korol, Jody E. Johnson, Mark Womble, Peter DeSaix

OpenStax

ISBN: <https://openstax.org/details/books/anatomy-and-physiology>

Binding: Website Link

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#### Supplementary

##### **Anatomy and Physiology: Adapted International Edition**

Edition: 9th (2019)

Authors: Kevin T. Patton, Gary A. Thibodeau, Andrew Hutton

Elsevier Health Sciences

Great Britain

ISBN: 9780702077166

Binding: Hardcover

#### Additional Textbook Information

This free online textbook (<https://openstax.org/details/books/anatomy-and-physiology>) is the only textbook students need for this unit. It will be listed as “prescribed” and is the compulsory text for this unit.

Whereas the Patton textbook (Anatomy and Physiology: Adapted International Edition 9th (2018) Authors: Kevin T. Patton, Gary A. Thibodeau, Andrew Hutton) will be listed as “supplementary”. A supplementary textbook is not compulsory for the unit but adds more information as some students may want to read further.

Students will have free access to Complete Anatomy (<https://3d4medical.com/>). More details about accessing Complete Anatomy will be provided on Moodle.

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

For further information, see the Assessment Tasks.

## Teaching Contacts

**Ryan du Preez** Unit Coordinator

[r.dupreez@cqu.edu.au](mailto:r.dupreez@cqu.edu.au)

## Schedule

### Week 1 - 04 Mar 2024

| Module/Topic | Chapter | Events and Submissions/Topic |
|--------------|---------|------------------------------|
|--------------|---------|------------------------------|

Introduction to Anatomy and Physiology [Openstax](#)  
Chapters 1, 2 and 3

**Week 2 - 11 Mar 2024**

| Module/Topic         | Chapter                               | Events and Submissions/Topic |
|----------------------|---------------------------------------|------------------------------|
| Integumentary System | <a href="#">Openstax</a><br>Chapter 5 |                              |

**Week 3 - 18 Mar 2024**

| Module/Topic    | Chapter  | Events and Submissions/Topic |
|-----------------|--|------------------------------|
| Muscular System | <a href="#">Openstax</a><br>Chapters 10 and 11 |                              |

**Week 4 - 25 Mar 2024**

| Module/Topic    | Chapter   | Events and Submissions/Topic |
|-----------------|---|------------------------------|
| Skeletal System | <a href="#">Openstax</a><br>Chapters 6, 7 and 8 |                              |

**Week 5 - 01 Apr 2024**

| Module/Topic          | Chapter  | Events and Submissions/Topic |
|-----------------------|--|------------------------------|
| Cardiovascular System | <a href="#">Openstax</a><br>Chapters 18, 19 and 20 |                              |

**Vacation Week - 08 Apr 2024**

| Module/Topic | Chapter | Events and Submissions/Topic |
|--------------|---------|------------------------------|
|--------------|---------|------------------------------|

**Week 6 - 15 Apr 2024**

| Module/Topic       | Chapter                                | Events and Submissions/Topic   |
|--------------------|--|--|
| Respiratory System | <a href="#">Openstax</a><br>Chapter 22 | Online quiz opens at 9am AEST on 15 April 2024 and closes at 5pm AEST on 16 April 2024.<br><b>Online Quiz</b> Due: Week 6 Tuesday (16 Apr 2024) 5:00 pm AEST |

**Week 7 - 22 Apr 2024**

| Module/Topic                  | Chapter                                | Events and Submissions/Topic |
|-------------------------------|--|------------------------------|
| Lymphatic System and Immunity | <a href="#">Openstax</a><br>Chapter 21 |                              |

**Week 8 - 29 Apr 2024**

| Module/Topic     | Chapter                                | Events and Submissions/Topic |
|------------------|--|------------------------------|
| Endocrine System | <a href="#">Openstax</a><br>Chapter 17 |                              |

**Week 9 - 06 May 2024**

| Module/Topic   | Chapter  | Events and Submissions/Topic |
|----------------|--|------------------------------|
| Nervous System | <a href="#">Openstax</a><br>Chapters 13, 14 and 15 |                              |

**Week 10 - 13 May 2024**

| Module/Topic     | Chapter                                | Events and Submissions/Topic |
|------------------|--|------------------------------|
| Digestive System | <a href="#">Openstax</a><br>Chapter 23 |                              |

**Week 11 - 20 May 2024**

| Module/Topic | Chapter | Events and Submissions/Topic |
|--------------|---------|------------------------------|
|--------------|---------|------------------------------|

Urinary System

[Openstax](#)  
Chapter 25

### Week 12 - 27 May 2024

| Module/Topic        | Chapter                                | Events and Submissions/Topic |
|---------------------|--|------------------------------|
| Reproductive System | <a href="#">Openstax</a><br>Chapter 27 |                              |

### Review/Exam Week - 03 Jun 2024

| Module/Topic | Chapter | Events and Submissions/Topic |
|--------------|---------|------------------------------|
|--------------|---------|------------------------------|

### Exam Week - 10 Jun 2024

| Module/Topic | Chapter | Events and Submissions/Topic   |
|--------------|---------|--|
|              |         | End of term online test opens at 9am AEST on 10 June 2024 and closes at 5pm AEST on 11 June 2024.<br><br><b>End of Term Online Test</b> Due: Exam Week Tuesday (11 June 2024) 5:00 pm AEST |

## Term Specific Information

Unit coordinator contact details are provided on Moodle.

The only textbook students need for this unit is a free online textbook (<https://openstax.org/details/books/anatomy-and-physiology>). It will be listed as “prescribed” and is the compulsory text for this unit.

The Patton textbook (Anatomy and Physiology: Adapted International Edition 9th (2018) Authors: Kevin T. Patton, Gary A. Thibodeau, Andrew Hutton) adds more information for students who may want to read further. This textbook will be listed as “supplementary” and is not compulsory for the unit.

Students will have free access to Complete Anatomy (<https://3d4medical.com/>). More details about accessing Complete Anatomy will be provided on Moodle.

As per Australian educational standards, you are expected to commit 150 hours of engagement to your study of this unit. A recommended breakdown of study hours is given below:

- 2 - 3 hours per week watching pre-recorded lectures and revising the content through study notes.
- 2 - 3 hours per week completing the weekly study questions and weekly revision quizzes on the unit's Moodle site.
- 2 - 3 hours per week attending the weekly tutorials and reflecting on your answers to the weekly revision worksheets.
- 3 - 4 hours per week preparing for your assessable online quiz and end of term online test.

## Assessment Tasks

### 1 Online Quiz

#### Assessment Type

Online Quiz(zes)

#### Task Description

##### Online Quiz (40% weighting)

The online quiz assesses content from weeks 1-5.

Week 1 - Introduction to Anatomy and Physiology

Week 2 - Integumentary System

Week 3 - Muscular System

Week 4 - Skeletal System

Week 5 - Cardiovascular System

Students will have one attempt and a time limit of 90 minutes to complete the online quiz on Moodle. This assessment will occur between 9am AEST 15th April 2024 and 5pm AEST 16th April 2024. There is a minimum requirement in the

assessment task: 50% of the available marks for this assessment item. In the absence of an approved extension, there will be no opportunity to complete the task after the assigned date.

**Number of Quizzes**

1

**Frequency of Quizzes**

Other

**Assessment Due Date**

Week 6 Tuesday (16 Apr 2024) 5:00 pm AEST

**Return Date to Students**

Week 6 Tuesday (16 Apr 2024)

Marks are available immediately after completing the assessment.

**Weighting**

40%

**Minimum mark or grade**

50%

**Assessment Criteria****Assessment 1 - Online Quiz (40% weighting)**

Assessing content from weeks 1-5. There are 80 questions for a total of 40 marks. The minimum passing mark is 50%. There are 2 sections. Section 1 has 62 questions, each worth 0.5 marks (62 x 0.5 = 31 marks). Section 2 has 18 questions, each worth 0.5 marks (18 x 0.5 = 9 marks). Sections 1 + 2 = 40 marks. Practice assessment questions are provided on Moodle.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Identify the structural levels of organisation and anatomical structures using medical terminology
- Identify the general features and role of homeostasis in the body
- Describe the human anatomy of integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary and reproductive systems
- Describe the human physiology of integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary and reproductive systems
- Discuss the interactions between structure and function in each of the human body systems
- Discuss the application of human anatomy and physiology relevant to your discipline.

**Graduate Attributes**

- Communication
- Information Literacy
- Information Technology Competence

## 2 End of Term Online Test

**Assessment Type**

Online Test

**Task Description****End of Term Online Test (60% weighting)**

The end of term online test assesses content covered during weeks 6-12.

Week 6 - Respiratory System

Week 7 - Lymphatic System and Immunity

Week 8 - Endocrine System

Week 9 - Nervous System

Week 10 - Digestive System

Week 11 - Urinary System

Week 12 - Reproductive System

Students will have one attempt and a time limit of 135 minutes to complete the end of term online test on Moodle. This assessment will occur between 9am AEST 10th June 2024 and 5pm AEST 11th June 2024. There is a minimum



requirement in the assessment task: 50% of the available marks for this assessment item. In the absence of an approved extension, there will be no opportunity to complete the task after the assigned date.

**Assessment Due Date**

Exam Week Tuesday (11 June 2024) 5:00 pm AEST

**Return Date to Students**

Exam Week Tuesday (11 June 2024)

Marks are available immediately after completing the assessment.

**Weighting**

60%

**Minimum mark or grade**

50%

**Assessment Criteria****Assessment 2 - End of Term Online Test (60% weighting)**

Assessing content from weeks 6-12. There are 120 questions for a total of 60 marks. The minimum passing mark is 50%. There are 2 sections. Section 1 has 90 questions, each worth 0.5 marks ( $90 \times 0.5 = 45$  marks). Section 2 has 30 questions, each worth 0.5 marks ( $30 \times 0.5 = 15$  marks). Sections 1 + 2 = 60 marks. Practice assessment questions are provided on Moodle.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Identify the structural levels of organisation and anatomical structures using medical terminology
- Identify the general features and role of homeostasis in the body
- Describe the human anatomy of integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary and reproductive systems
- Describe the human physiology of integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic and immune, respiratory, digestive, urinary and reproductive systems
- Discuss the interactions between structure and function in each of the human body systems
- Discuss the application of human anatomy and physiology relevant to your discipline.

**Graduate Attributes**

- Communication
- Information Literacy
- Information Technology Competence

## 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