



# BIOH11006 *Advanced Anatomy and Physiology*

## Term 1 - 2017

Profile information current as at 20/09/2024 11:41 am

All details in this unit profile for BIOH11006 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

On successful completion, students will have a detailed understanding of the normal functioning of the human body. Students will be able to describe the structure and function of the major organ systems of the human body, including the nervous, circulatory, digestive, respiratory, renal, endocrine, immune and reproductive systems. Students will be able to explain the role of regulatory and feedback control systems in maintaining body functions within effective operational limits.

### 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

Pre-requisites: BIOH11005 Introductory Anatomy and 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 1 - 2017

- Bundaberg
- Distance
- Mackay
- 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: 20%

#### 2. **Practical and Written Assessment**

Weighting: 20%

#### 3. **Examination**

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 Staff observation/reflection

**Feedback**

Students struggle in understanding what is expected in the written assignment.

**Recommendation**

Lectures will be pre-recorded and made available to students ahead of time.

#### Feedback from Unit Evaluations and email

**Feedback**

Students found the unit to be well-presented and informative. Many students enjoyed the shorter pre-recorded lectures and felt the hand-drawn diagrams aided their learning

**Recommendation**

This style of presentation will be used in future offerings with the addition of 'live' tutorial sessions

#### Feedback from Unit Evaluations

**Feedback**

Students would like lecture content available earlier.

**Recommendation**

The previous term's lectures will be provided on the Moodle site. This will aid those students who may want to walk ahead of the schedule.

## Unit Learning Outcomes

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

1. Describe the detailed anatomy and normal functioning of the major physiological systems of the human body.
2. Discuss the concepts and processes of homeostatic regulation and feedback within the human body.
3. Explain the neuronal and hormonal control mechanisms of human body systems.
4. Describe the interplay of factors involved in normal system function and how these are usually kept within effective operational limits.

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Online Quiz(zes) - 20%	•	•	•	•
2 - Practical and Written Assessment - 20%	•			
3 - Examination - 60%	•	•	•	•

## Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
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) - 20%		•								
2 - Practical and Written Assessment - 20%	•		•	•						
3 - Examination - 60%	•	•	•							

## Textbooks and Resources

### Textbooks

BIOH11006

#### Prescribed

#### Human Anatomy and Physiology, Global Edition

Edition: 1st (2016)

Authors: Erin C Amerman

Pearson Higher Ed USA

USA

ISBN: 9781292112336

Binding: Hardcover

#### Additional Textbook Information

This is the same text used for BIOH11005 Introductory Anatomy & Physiology

[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 styles below:**

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

For further information, see the Assessment Tasks.

## Teaching Contacts

**Candice Pullen** Unit Coordinator

[c.pullen@cqu.edu.au](mailto:c.pullen@cqu.edu.au)

## Schedule

### Week 1 - 06 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Energy Metabolism		Quiz 1 opens

### Week 2 - 13 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
Muscle Physiology		Quiz 2 opens

### Week 3 - 20 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
The Peripheral Nervous System		Quiz 3 opens

### Week 4 - 27 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
The Central Nervous System		Quiz 4 opens
<b>Week 5 - 03 Apr 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
The General and Special Senses		Quiz 5 opens
<b>Vacation Week - 10 Apr 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Study break		
<b>Week 6 - 17 Apr 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Cardiovascular Physiology: The Heart and blood vessels		Quiz 6 opens
		<b>Written Assignment</b> Due: Week 6 Monday (17 Apr 2017) 11:45 pm AEST
<b>Week 7 - 24 Apr 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Blood & The Lymphatic System The Endocrine System		Quiz 7 opens
<b>Week 8 - 01 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
The Respiratory System		Quiz 8 opens
<b>Week 9 - 08 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Homeostasis Urinary System		Quiz 9 opens
<b>Week 10 - 15 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
The Immune System		Quiz 10 opens
<b>Week 11 - 22 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Reproduction		Quiz 11 opens
<b>Week 12 - 29 May 2017</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Cells and Genetics		Quiz 12 opens
		<b>Weekly Quizzes</b> Due: Week 12 Friday (2 June 2017) 11:45 pm AEST
<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 Weekly Quizzes

## Assessment Type

Online Quiz(zes)

## Task Description

There will be a ten (10) question multiple choice quiz for each week (12 quizzes in total). A new quiz will open each week.

Students will have two attempts, with the highest score being counted towards their final grade. A second attempt cannot be made until 24 hours have elapsed after the first attempt. More details are available on the Moodle site.

All quizzes remain open until the Friday of Week 12 but students are encouraged to make at least one attempt each week.

Please note that there is a minimum grade of 30% for this assessment item.

## Number of Quizzes

12

## Frequency of Quizzes

Weekly

## Assessment Due Date

Week 12 Friday (2 June 2017) 11:45 pm AEST

Marks will be available at completion of each quiz

## Return Date to Students

Marks will be available at completion of each quiz

## Weighting

20%

## Minimum mark or grade

30% of total marks

## Assessment Criteria

No Assessment Criteria

## Referencing Style

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

## Submission

Online

## Graduate Attributes

- Problem Solving

## Learning Outcomes Assessed

- Describe the detailed anatomy and normal functioning of the major physiological systems of the human body.
- Discuss the concepts and processes of homeostatic regulation and feedback within the human body.
- Explain the neuronal and hormonal control mechanisms of human body systems.
- Describe the interplay of factors involved in normal system function and how these are usually kept within effective operational limits.

# 2 Written Assignment

## Assessment Type

Practical and Written Assessment

## Task Description

- Check Moodle for a more detailed description of the assessment item
- There are two parts of this assessment.
- There is a minimum grade of 30% associated with this assessment item.

## Overview:

### Part A:

John Smith is a 60 year old patient with diabetes. He regularly attends the clinic where you are completing your placement. During a regular check-up, you notice that Mr. Smith is having trouble reading and is very sensitive to glare.

On checking his file, it becomes evident that he has very poorly managed blood sugar levels and is also hypertensive. He is referred to an eye care specialist.

During a follow-up visit, Mr. Smith mentions that the specialist has diagnosed him with diabetic retinopathy. Mr. Smith doesn't understand how his long-standing diabetes can result in him potentially losing his sight and has asked you to help him understand the anatomy of the eye and how diabetes can affect the normal function of the eye.

**Your task:**

**Write a short essay** to explain the anatomy of the eye, how vision is achieved and briefly discuss how high blood sugar can damage the retina. Be sure to use language that Mr. Smith will understand; he has not studied science since high school. In your explanation you must include **at least one (1) hand drawn labelled diagram** that clearly shows the anatomy of the eye. **The following must be labelled on your diagram: the optic nerve, optic disc, retina, iris, pupil, lens, suspensory ligaments and the cornea.**

**Part B**

**At-home tests**

Perform the following tests to assess vision in 3 volunteers.

- Test for near-point accommodation
- Visual acuity
- Blind spot
- Examination of binocular vision

More details will be available on the Moodle site.

**Assessment Due Date**

Week 6 Monday (17 Apr 2017) 11:45 pm AEST

**Return Date to Students**

Week 8 Friday (5 May 2017)

**Weighting**

20%

**Minimum mark or grade**

30%

**Assessment Criteria**

Marks will be awarded for writing skills, essay content, practical tests, answers to questions, research and referencing. Marks will be deducted for plagiarism and copying. A detailed marking scheme is available on the Moodle site.

**Referencing Style**

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

**Submission**

Online

**Submission Instructions**

Please submit a single doc, docx or rtf file only.

**Graduate Attributes**

- Communication
- Critical Thinking
- Information Literacy

**Learning Outcomes Assessed**

- Describe the detailed anatomy and normal functioning of the major physiological systems of the human body.

## Examination

**Outline**

Complete an invigilated examination.

**Date**

During the examination period at a CQUniversity examination centre.

**Weighting**

60%

**Length**

180 minutes

**Minimum mark or grade**

40%

**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