



# BIOL40108 *Introductory Biology*

## Term 1 - 2019

Profile information current as at 29/04/2024 11:30 pm

All details in this unit profile for BIOL40108 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

This unit prepares students for university study in the environmental, biomedical or life sciences. Students will gain an introductory understanding of the main concepts in modern biology, particularly as they relate to humans. This unit covers a range of topics including cell theory, organ systems, genetics, taxonomy, ecology and environmental science.

#### Details

Career Level: *Non-award*

Credit Points: 6

Student Contribution Band: 8

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 - 2019

- Online

#### 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 Non-award 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. **Written Assessment**

Weighting: 40%

#### 3. **Written Assessment**

Weighting: 20%

### 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 unit evaluations

**Feedback**

Feedback that instructions for the essay were too detailed for confident students

**Recommendation**

Add a short summary for essay instructions; continue to provide comprehensive essay guidance (students also provide feedback that the extra support is essential).

#### Feedback from unit evaluations

**Feedback**

Request for a single PDF of the study guide instead of single modules

**Recommendation**

Retain weekly modules, but add a single combined PDF file when possible (when there are no ongoing revisions).

#### Feedback from unit evaluations

**Feedback**

Feedback that week 1 content was too light

**Recommendation**

Consider additional information that could be included in week 1 (it is purposefully kept light on content to allow for late enrolments).

## Unit Learning Outcomes

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

1. Demonstrate an introductory level understanding of the main concepts in modern biology, particularly as they relate to humans
2. Locate relevant research on a topic to then prepare an essay following academic writing conventions for scientific essays
3. Write short notes to demonstrate your understanding of the meaning of key terms, concepts and processes in biology

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes		
	1	2	3
1 - Online Quiz(zes) - 40%	•		•
2 - Written Assessment - 40%	•	•	
3 - Written Assessment - 20%	•	•	•

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes		
	1	2	3
1 - Self Management	—	—	—
2 - Communication	—	—	—
3 - Information Literacy		—	
4 - Information Technology Competence	—	—	
5 - Problem Solving			—
6 - Critical Thinking		—	—
7 - Cross-Cultural Competence			
8 - Ethical Practice			
9 - 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
1 - Online Quiz(zes) - 40%	—	—	—	—		—		—	
2 - Written Assessment - 40%	—	—	—	—		—		—	
3 - Written Assessment - 20%	—	—		—	—	—		—	

## Textbooks and Resources

### Textbooks

**There are no required textbooks.**

#### Additional Textbook Information

Unit modules are available online from the Introductory Biology Moodle site. These modules make up the study guide for this unit.

If you have iTunes and iBooks, I recommend you download E. O. Wilson's *Life on Earth*. This is an excellent eBook and should be free to download from iTunes. This eBook is only available for Apple and is not available for Windows.

### IT Resources

**You will need access to the following IT resources:**

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Access to a computer is recommended

## Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

## Teaching Contacts

**Leonie Barnett** Unit Coordinator

[l.barnett@cqu.edu.au](mailto:l.barnett@cqu.edu.au)

## Schedule

### Week 1 - 11 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Module 1. Living things and systems of organisation	1	

### Week 2 - 18 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Module 2. Biological molecules	2	

### Week 3 - 25 Mar 2019

Module/Topic	Chapter	Events and Submissions/Topic
Module 3. The cell - the building block of life	3	

### Week 4 - 01 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Module 4. Introduction to homeostasis - the essay in this unit	4	<b>Assessment 1. Quiz 1</b> due: Week 4 Monday (1 Apr 2019) 11:30 pm AEST

### Week 5 - 08 Apr 2019

Module/Topic	Chapter	Events and Submissions/Topic
Module 5. Cell membranes	5	

**Vacation Week - 15 Apr 2019**

Module/Topic	Chapter	Events and Submissions/Topic
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**Week 6 - 22 Apr 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Module 6. Genetics: DNA - structure and function	6	

**Week 7 - 29 Apr 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Module 7. The cell cycle: Cell division - mitosis and meiosis	7	<b>Assessment 1. Quiz 2</b> due: Week 7 Monday (29 April 2019) 11:30 pm AEST

**Week 8 - 06 May 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Module 8. Cell differentiation and tissues	8	

**Week 9 - 13 May 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Module 9. Organ systems: the skeletal system	9	<b>Assessment 2 Academic essay</b> Due: Week 9 Monday (13 May 2019) 11:30 pm AEST

**Week 10 - 20 May 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Module 10. Taxonomy and the diversity of life	10	<b>Assessment 1. Quiz 3</b> due: Week 10 Monday (20 May 2019) 11:30 pm AEST

**Week 11 - 27 May 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Module 11. Ecology	11	

**Week 12 - 03 Jun 2019**

Module/Topic	Chapter	Events and Submissions/Topic
Module 12. Environmental science and sustainability	12	

**Review/Exam Week - 10 Jun 2019**

Module/Topic	Chapter	Events and Submissions/Topic
		Assessment 1. Quiz 4 due: Review/Exam week Monday (10 June 2019) 11:30 pm AEST
		<b>Assessment 3 Written assessment: answers to questions (open book)</b> Due: Review/Exam Week Monday (10 June 2019) 11:30 pm AEST

**Exam Week - 17 Jun 2019**

Module/Topic	Chapter	Events and Submissions/Topic
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## Term Specific Information

The unit coordinator for this term is:

**Dr Guy Carton (Guy)**

Lecturer, School of Access Education

Building 32, Office G.29

North Rockhampton

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All modules for this unit are online.

If you have iBooks, I recommend you download the free eBook *E. O. Wilson's Life on Earth*.

If you have Google Play Books, I recommend you download the free eBook *CK-12 Biology*, this book can also be downloaded from [www.ck12.org](http://www.ck12.org).

## Assessment Tasks

### 1 Assessment 1 Online quizzes (open book)

**Assessment Type**

Online Quiz(zes)

**Task Description**

There are **four (4)** online quizzes to be completed in Moodle.

These quizzes contain multiple choice, matching and short answer questions that cover the content from each weekly module/topic.

Each quiz is **time limited to 1 hour** for completion. Refer to your unit notes while completing the quiz, but **do not search the internet for answers**.

Quizzes become unavailable after the due date unless an extension has been granted.

**Number of Quizzes**

4

**Frequency of Quizzes**

Other

**Assessment Due Date**

Quiz 1 by Monday week 4 (1 Apr 2019) at 11:30 AEST; Quiz 2 by Monday week 7 (29 April 2019) at 11:30 pm AEST; Quiz 3 by Monday week 10 (20 May 2019) at 11:30 pm AEST; Quiz 4 by Monday Review/Exam week (10 June 2019) at 11:30 pm AEST

**Return Date to Students**

Interim results are provided online immediately after completion and checked manually within 2 weeks

**Weighting**

40%

**Assessment Criteria**

Marks are allocated for correct answers.

**Referencing Style**

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

**Submission**

Online

**Learning Outcomes Assessed**

- Demonstrate an introductory level understanding of the main concepts in modern biology, particularly as they relate to humans
- Write short notes to demonstrate your understanding of the meaning of key terms, concepts and processes in

biology

### Graduate Attributes

- Self Management
- Communication
- Information Literacy
- Information Technology Competence
- Critical Thinking
- Ethical Practice

## 2 Assessment 2 Academic essay

### Assessment Type

Written Assessment

### Task Description

Write an academic essay of 1500 words to explain *the biological concept of homeostasis using blood glucose homeostasis as an example*. Illustrate your answer by referring to blood glucose homeostasis in the human body. For details, read the **Essay writing handbook** in Moodle.

### Requirements for your essay

- Use a variety of quality academic resources, **including journals**, relevant to the topic.
- Write in your own words, i.e. **paraphrase/summarise** the information from the sources rather than relying excessively on quotes or copying words.
- Use Times New Roman in font size 11 or 12 and 1.5 line spacing.
- Include a title page containing your name, student number, unit name and code, lecturer name, due date and your word count.
- Avoid using headings, dot points or numbered lists.
- Write in complete sentences and paragraphs using clear, concise and correct English.

### Assessment Due Date

Week 9 Monday (13 May 2019) 11:30 pm AEST

### Return Date to Students

Week 12 Monday (3 June 2019)

Three weeks after due date or three weeks after submission if submitted after due date

### Weighting

40%

### Minimum mark or grade

35%

### Assessment Criteria

The marking matrix (marking criteria) can be downloaded from the unit website in Moodle.

### Referencing Style

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

### Submission

Online

### Submission Instructions

Please submit in DOC/DOCX file format

### Learning Outcomes Assessed

- Demonstrate an introductory level understanding of the main concepts in modern biology, particularly as they relate to humans
- Locate relevant research on a topic to then prepare an essay following academic writing conventions for scientific essays

### Graduate Attributes

- Self Management
- Communication
- Information Literacy
- Information Technology Competence
- Critical Thinking



- Ethical Practice

### 3 Assessment 3 Written assessment: answers to questions (open book)

#### Assessment Type

Written Assessment

#### Task Description

Provide short answers or write a short essay in response to set questions relating to the entire unit (open book). The questions will be available for download from Moodle near the end of the term (week 11). Further details about when the questions are available will be published in Moodle near the end of the term.

To complete this assessment, you can refer to your unit materials as it is open book, but **do not search the internet for the answers.**

#### Assessment Due Date

Review/Exam Week Monday (10 June 2019) 11:30 pm AEST

#### Return Date to Students

Two weeks after due date or two weeks after submission if submitted after due date

#### Weighting

20%

#### Assessment Criteria

Marks are given for correct answers. The essay question will include a component based on communication skills. All written work should be presented using correct grammar and spelling in standard English. **Marks will be deducted for answers copied from the internet.**

#### Referencing Style

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

#### Submission

Online

#### Submission Instructions

Please submit in PDF DOC/DOCX file format

#### Learning Outcomes Assessed

- Demonstrate an introductory level understanding of the main concepts in modern biology, particularly as they relate to humans
- Locate relevant research on a topic to then prepare an essay following academic writing conventions for scientific essays
- Write short notes to demonstrate your understanding of the meaning of key terms, concepts and processes in biology

#### Graduate Attributes

- Self Management
- Communication
- Information Technology Competence
- Problem Solving
- Critical Thinking
- 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