



Unit Study Guide

Qualification Code and Name	NA
Stream / Specialisation	NA
Unit Code and Name	UNL44 Unilearn Biology
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What will I learn?

The main aim of this course is to assist you in obtaining the skills and knowledge to confidently approach tertiary studies in any of the biology disciplines. On successful completion of this course you will be able to demonstrate an understanding of the following key concepts across a range of organisms:

- Taxonomy
- Cell theory
- Tissues, organs and organ systems
- Role of nucleic acids (DNA/RNA)
- Genetics and inheritance
- Homeostasis
- Evolution
- Ecology

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Are there any special requirements?

Reliable, regular access to an online environment – internet access, a computer/laptop or mobile device and have enough knowledge to navigate content.

This unit is designed for self-paced study. You should be able to commit yourself to readings, videos, and activities.

Part of the online environment is access to the TAFE Queensland virtual learning environment (Connect) and learning management system (Connect LMS). Please take the time to orientate yourself to these systems.



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What do I need to do to be successful?

It is recommended this unit requires a minimum of 220 hours minimum to complete. From the date you sign up, you have 365 days to complete the course.

You are required to satisfactorily complete all assessments for this unit. You are responsible for complying with TAFE Queensland's assessment rules and complete assessment tasks honestly.

You need to follow all assessment instructions, including submission details and retain a copy of all assessment items.

The course work, activities and planning documents are designed to help students prepare for the final exam for biology.

To be eligible to sit the final exam, students are required to achieve a mark of 60% or higher each on ALL earlier assessments. Candidates who fail to obtain the minimum mark required for a Pass grade in the final exam will be eligible to sit a second attempt.



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Course Components

UNIT 1 – Introduction of Biology

Chapter 1 - The nature of biology

UNIT 2 – The Diversity of Life

Chapter 2 – Classifying organisms

Chapter 3 – Overview of living organisms

Chapter 4 – Phylogenetic relationships

Chapter 5 – The effect of organisms on humans

UNIT 3 – Ecology

Chapter 6 – Organisms and their environment

Chapter 7 – Populations

Chapter 8 – Ecosystem dynamics

Chapter 9 – Communities and their habitats

Chapter 10 – Human impact on the environment

UNIT 4 – Animal Behaviour

Chapter 11 – Animal behaviour

UNIT 5 – Cell Biology

Chapter 12 – Chemicals of life

Chapter 13 – Cell structure

Chapter 14 – Cell functions

UNIT 6 – The Functioning Organism

Chapter 15 – Plant Physiology

Chapter 16 – Plant reproduction, growth and development

Chapter 17 – Animal physiology

Chapter 18 – The human body

Chapter 19 – Human reproduction, growth and development

UNIT 7 – Genetics

Chapter 20 – The inheritance of characteristics

Chapter 21 – Gene action

UNIT 8 – Evolution

Chapter 22 – Theories of evolution

Chapter 23 – The mechanisms of evolution

UNIT 9 – Biotechnology

Chapter 24 – Biotechnology

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Course Schedule*

Topic	Week	Study	Assessment	Estimated Hours per week
Unit 1	1	Chapter 1 readings & online resources	Progress Test 1.1 (16 Questions)	7
Unit 2	2	Chapter 2 readings & online resources	Lab Activity 1 (35 marks)	11
	3	Chapter 3 readings & online resources	Progress Test 2.1 (31 Questions)	8
	4	Chapters 4 and 5 readings & online resources		10
	5	Continue Chapter 5 readings & online resources	Lab Activity 2 (30 marks), Progress Test 2.2 (54 Questions)	9
Unit 3	6	Chapter 6 and 7 readings & online resources		10
	7	Continue Chapter 7 readings & online resources	Lab Activity 3 (100 marks), Progress Test 3.1 (32 Questions)	8
	8	Chapters 8 and 9 readings & online resources		10
	9	Chapter 10 readings & online resources	Progress Test 3.2 (55 Questions)	8
Unit 4	10	Chapter 11 readings & online resources	Progress Test 4.1 (25 Questions)	7
Unit 5	11	Chapter 12 readings & online resources	Lab Activity 4 (35 marks)	8
	12	Chapters 13 and 14 readings & online resources	Lab Activity 5 (35 marks)	9
	13	Continue Chapter 14 readings & online resources	Progress Test 5.1 (87 Questions)	9
Unit 6	14	Chapter 15 readings & online resources		6
	15	Chapter 16 readings & online resources	Progress Test 6.1 (43 Questions)	8
	16	Chapter 17 readings & online resources		6
	17	Chapter 18 readings & online resources	Lab Activity 6 (100 marks)	12
	18	Chapter 19 readings & online resources	Progress Test 6.2 (87 Questions)	9
Unit 7	19	Chapter 20 readings & online resources	Lab Activity 7 (50 marks)	9
	20	Chapter 21 readings & online resources	Progress Test 7.1 (57 Questions)	7
Unit 8	21	Chapter 22 and 23 readings & online resources	Progress Test 8.1 (41 Questions)	12
Unit 9	22	Chapter 24 readings & online resources	Lab Activity 8 (32 marks)	7
	23	Complete Final Exam Request Form	Progress Test 9.1 (26 Questions)	8
Revision & Finals	24	Revision & Complete Practice Exam	Practice Exam	12
	25	Revision & Biology Final Exam (3 hour 10 min exam)	Final Exam	10

*This is a 25 week example of how to complete the course. As previously mentioned the content is self-paced study and the student has 365 days to complete the course, so this schedule may be adapted by individual students to suit their needs.



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ASSESSMENT SUMMARY

	Assessment	Weight	Conditions
Progress Tests	1.1	0.45	Open book, no time limit
	2.1	0.75	Open book, no time limit
	2.2	1.43	Open book, no time limit
	3.1	0.86	Open book, no time limit
	3.2	1.5	Open book, no time limit
	4.1	0.6	Open book, no time limit
	5.1	2.25	Open book, no time limit
	6.1	0.98	Open book, no time limit
	6.2	2.66	Open book, no time limit
	7.1	1.61	Open book, no time limit
	8.1	1.2	Open book, no time limit
	9.1	0.71	Open book, no time limit
	Total	15%	
Labs	1 – Plant Dichotomous Key	1.26	Worksheet activity, open book, no time limit
	2 - Gram Staining Bacteria	1.08	Online lab, open book, no time limit
	3 - Populations	3.6	Online lab and interactive worksheet activity
	4 - Microscope	1.26	Online lab, open book, no time limit
	5 - Mitosis	1.26	Online lab, open book, no time limit
	6 - Frog Dissection	3.6	Online lab and worksheet activity, , open book, no time limit
	7 - Inheritance	1.8	Worksheet activity, , open book, no time limit
	8 - Transgenic Flies	1.14	Online lab, open book, no time limit
		Total	15%
	Final Exam	70%	Supervised Exam, closed book, 3hr 10mins time limit



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GRADING SCHEME

Students are required to complete all required assessments with a score of 60% or above on each in order to be eligible to sit the final exam. A student's final grade is an accumulation of all required content and will be weighted as follows:

Pass (P)	50 - 64%
Credit (C)	65 - 74%
Distinction (D)	75 - 84%
High Distinction (HD)	85% +

Refer also to Student Rules <http://tafeqld.edu.au/current-students/student-rules/> for additional information relating to plagiarism, academic appeals, code of conduct, misconduct appeals and appropriate use of computing and electronic resources.

STUDENT SUPPORT

While this unit is designed for self-paced study, this unit includes individual tutorial support with an experienced biology teacher. Tutorial support is via email, phone, and discussion forums.

Support is also provided through Studiosity which provides out of hours academic support online for TAFE Queensland students. This link is available through CONNECT.

Students can access the TAFE Queensland library network and also a wide array of academic databases. A wide array of digital resources are also available through CONNECT.

All content is available on the Student Learning Platform and can be accessed 24 hours a day.