

OTUMOETAI COLLEGE
NCEA BIOLOGY LEVEL 2 – (L2BIOL) 2018

BIOLOGY – L2BIOL					
<i>Course Relationship to the National Vocational Pathways</i>					
Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Services Industries	Social & Community Services	Creative Industries
0	4	19	7	19	0
Course Entry	Minimum entry requirement is 12 credits in Level 1 Science (including Genetics - at Merit / Excellence level advisable) or if given HOD approval.				
Course Overview	This course involves study of the key concepts of Biology to enable students to choose further study pathways in this specialist area. Biology study includes Ecology, Genetics, Cell Processes and anatomy. The course is a prerequisite for Level 3 Biology and required for entry into University and Polytechnic Course pathways.				
Assessment	This course will be assessed to a selection of Achievement Standards, both internal and external, with students having the opportunity to gain up to 21 credits at Level 2.				
Cost for Trips	2 x 1 day compulsory fieldtrips to Oteora, 'Kaimai Ranges and Beach Rd Tidal Flats', Otumoetai				\$30.00

Aim

1. To provide a context to develop the five key competencies identified in the New Zealand Curriculum - *thinking, using language, symbols, and texts, managing self, relating to others, participating and contributing* – To use these competencies to live, learn, work, and contribute as active members of communities.
2. To develop an understanding of living things and how they interact with each other and the environment, the diversity of life and life processes.
3. To understand where and how life has evolved in order to gain an appreciation of evolution as the link between life processes and ecology, and of the impact of humans on all forms of life.
4. As a result of studying Biology, students will be able to make more informed decisions about significant biological issues with an emphasis is on the biology of New Zealand, including the sustainability of New Zealand's unique fauna and flora and distinctive ecosystems.
5. To prepare students for success in NCEA Level two examinations and further study pathways.

Description

This course involves study of the key concepts of Biology to provide students with the background to understand Biology for everyday life, to prepare for the workforce or to choose further study pathways in this specialist area. Level 2 Biology is a prerequisite for level 3 Biology and entry into many University and Polytechnic Courses.

Topics

Ecology	Biological investigation
Cellular life processes	Genetic variation and change
Gene expression	Animal adaptations of gas exchange

Assessment Programme – Achievement Standards 2018

External

AS91156 Biology 2.4 Demonstrate understanding of life processes at the cellular level.	4 credits
AS91157 Biology 2.5 Demonstrate understanding of genetic variation and change.	4 credits
AS91159 Biology 2.7 Demonstrate understanding of gene expression.	4 credits

Internal

AS91153 Biology 2.1 Carry out a practical investigation in a biological context.	4 credits
AS91155 Biology 2.3 Demonstrate understanding of adaptations of plants or animals to their way of life.	3 credits

Assessment Opportunity

Students are expected to complete all assessment activities on or before the due date. A further assessment opportunity will only be offered to classes where practicable. The final decision as to whether the class will be offered a further assessment opportunity lies with the Head of Faculty.

Derived Grades

These are only available for external standards and will depend on evidence available from practice examinations and other assessed work completed in class that is related to the same learning outcomes.

Work Deadlines & Lateness

All work must be handed in **at the beginning of the lesson on the due date**. Work **must be personally delivered to the teacher concerned** and must not be placed in the teacher's pigeonhole or left on the teacher's desk.

All in-class and fieldtrip assessments must be completed on the set day unless **prior approval** has been requested of the individual teacher and approved by the Head of Department.

Assessment tasks handed in late without prior approval, will not necessarily be accepted for marking. The decision to accept or not accept a late assessment tasks will be made by the individual decision. Students who fail to submit work for assessment will be recorded as "not submitted" and can expect to receive a "not achieved" for that standard.

Students enrolled in all Science Department course are entered in all standards being assessed as part of that course unless they negotiate to be removed from that particular standard **at the beginning of the year** and will require written parental permission to be removed from any standard.

How to Appeal a Grade

Appeals against grades awarded should be made following the procedure outlined in the school policy on appeals. Students wishing to appeal a grade must do so within 48 hours of receiving notification of their assessed grade.

Storage of Student Work

The Science Department will retain all student assessment material until it is no longer required by NZQA for moderation purposes.

Authenticity

Except where specified in the assessment task, all work is to be the student's own. Assessment tasks completed outside of examination conditions will require a signed statement of authentication from students.

Marking and Moderation

Student's work will be marked by the class teacher following NCEA assessment schedules. For marking consistency, some assessment tasks or sections of tasks may be marked by the same teacher for all classes. Moderation will take place at the beginning and end of the marking to ensure consistency between classes.

Resources & Texts

Texts and resource material will only be loaned to students through the bar coded issue system and remain the property of the Science Department. Lost materials and texts will be replaced by the students responsible at his/ her own cost which must be cleared before further texts will be issued.

Welcome to the Science Department. The Science staff are here to help you enjoy your learning and make the most of the learning opportunities provided.

YEAR PLANNER 2018

SUBJECT: 12 BIOLOGY

TERM 1	Week 1 31 - 3 Feb	Week 2 6 - 10 Feb	Week 3 13 - 17 Feb	Week 4 20 - 24 Feb	Week 5 27 Feb - 3 Mar	Week 6 6 - 10 Mar	Week 7 13 - 17 Mar	Week 8 20 - 24 Mar	Week 9 27 -31 Mar	Week 10 3 – 7 Apr	Week 11 10 – 14 Apr	
Context	TOD (JAN 30)	Waitangi (6 th)	Investigating Biology 2.1				Cells EXT 91156 Photosynthesis	ASSESSMENT	Cells EXT 91156			Easter Friday
Assessment		10 Feb Oteora				Beach rd 8/3 LT: 9.50am		2.1 Plant adaptations	SUMMER TOURNAMENT WEEK			

TERM 2	Week 1 1– 5 May	Week 2 8-12 May	Week 3 15 - 19 May	Week 4 22 -26 May	Week 5 29 May - 2 Jun	Week 6 5 - 9 June	Week 7 12 - 16 June	Week 8 19 -23 June	Week 9 26 -30 June	Week 10 3 -7 July
Context	Cells EXT 91156		TEACHER ONLY DAY (19)	Animal Adaptations 91155 Internal			Queen's Birthday (6)	Internal 2.3 in exam time	Genetic Variation EXT 91157	
Assessment								NCEA PRACTICE EXAMS		2.3 Assessment #2

TERM 3	Week 1 24 -28 July	Week 2 31 – 4 Aug	Week 3 7 - 11 Aug	Week 4 14 - 18 Aug	Week 5 21 - 25 Aug	Week 6 28 Aug -1 Sept	Week 7 4 - 8 Sept	Week 8 11 -15 Sept	Week 9 18 -22 Sept	Week 10 25 -29 Sept
Context	Genetic Variation EXT				Gene Expression EXT 91159					Gene Expr Cont.
Assessment							WINTER TOURNAMENT WEEK		NCEA PRACTICE EXAMS	

TERM 4	Week 1 16 - 20 Oct	Week 2 23 - 27 Oct	Week 3 30 Oct – 3 Nov	Week 4 6 - 10 Nov	Week 5 13 - 17 Nov	Week 6 20 - 24 Nov	Week 7 27 Nov -1 Dec	Week 8 4 - 8 Dec	Week 9 11 - 15 Dec
Context	Gene Expr Cont.	Labour Day (23)	Revision						TODs Monday & Tuesday
Assessment									