

OTUMOETAI COLLEGE
NCEA MARINE STUDIES LEVEL 2 & 3 – (L2 & L3MAST) 2018

MARINE STUDIES – L2MAST					
<i>Course Relationship to the National Vocational Pathways</i>					
Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Services Industries	Social & Community Services	Creative Industries
4	4	14	R:10 SR:6	10	0
Course Entry	Recommendation of your Year 11 Science Teacher or HOD. Students must be prepared to participate in fieldwork and diving courses, and have some independent skills, if a split class.				
Course Overview	This course will begin early with an open water scuba course including rescuing a diver from 18m. This will involve pool sessions and a sea test in the lakes or ocean. Biological work involves looking at the diversity of marine species and identification by key use and recording. Students study the commercial production of Green Shelled Mussel including their life cycle and anatomy. A research project covers Marine Mammal Adaptations and students study relationships within marine communities, as well as life in extreme deep water environment. It leads on to Level 3 Marine Studies.				
Assessment	This course will be assessed to a selection of Achievement and Unit Standards with students having the opportunity to gain up to 18 credits at Level 2 and 11 credits at Level 3.				
Cost Materials	Diving course including the fee for hiring diving equipment, tanks, regulator, BCD, and instruction costs. – This must be paid up front. Note: Students provide the following items of diving equipment – mask, snorkel, fins, weights, gloves, dive knife, wet suit and dive booties. It might be possible to borrow many of these items, or to purchase them out of season (e.g. while on special). Prizes vary considerably depending on quality and there is second-hand gear for sale. It is essential that the mask fits well. – Dive shop gives great discounts. For the SCUBA course the students will be provided with the PADI – e-learning key. However, students are expected to bring refill paper/folders to all lessons in class and clipboards for fieldtrips. Texts and information resources will be provided in class on a topic by topic basis.				\$450.00
	Medical: All students must supply a recreational diving medical certificate from their GP to say that they are medically fit to undertake a course in SCUBA diving. IMPORTANT! This may be required by Week 2 of Term 1				\$60.00-\$90.00
Cost for Trips	Local fieldtrips				\$25.00

MARINE STUDIES – L3MAST					
<i>Course Relationship to the National Vocational Pathways</i>					
Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Services Industries	Social & Community Services	Creative Industries
9	7	12	5	7	0
Course Entry	Recommendation of your Year 12 Science Teacher or HOD. Students must be prepared to participate in fieldwork and diving courses, and have some independent skills, if a split class.				
Course Overview	This course involves an advanced open water dive certificate with shore/boat/deep and probably wreck diving plus related theory, the study of function of fin fish, shark finning and ocean systems. Students study Aquaculture, as it applies to the Paddle Crab or Shrimp and then study Marine Surveying (if available) with a trip and associated theory in Term 4. This course leads on to 'Smart Path' Marine Studies at Polytechnic or a Degree at University. This may lead to work in Aquaculture, Fisheries, Individual Research or Department of Conservation.				
Assessment	The course will be assessed to a selection of Unit Standards.				
Cost Materials	Advanced Dive Courses				\$425.00
	Marine Survey Course (if available through Polytech) – if available				\$70.00
	Medical: Students may need to renew their recreational diving medical certificate from their GP if it is more than one year old. IMPORTANT! This may be required by Week 2 of Term 1				\$60.00-\$90.00
Cost for Trips	Travel [Dive Course]				\$25.00
	OPTIONAL Trip to Poor Knights Islands – (cost to be advised)				\$900.00 - \$1,000.00

Aim

During their study of a range of topics in Marine Studies students will develop their understanding of:

1. The relationship between their own bodies and the various factors of the aquatic environment during / after SCUBA diving.
2. The diversity, structure, function and inter-relationships of selected marine organisms with the biotic and abiotic environment.
3. The interactions between humans and the marine environment in a general sense as well as the more specific interactions resulting from fishing and commercial exploitation of various marine species.

Description

Entry to this course is open, but some background knowledge in Science or Biology is advantageous. This course consists of several standards and is a preparation for Marine Studies courses at the Polytechnic.

Course Fees

PADI Open Water Dive Course	\$425.00
Field Trips to local venues, e.g. mudflats / rocky shore bus fare	\$25.00
Other long distance trips, costs are determined closer to the time	

Equipment

Students are expected to provide their own wetsuit, face mask, snorkel, fins and weight belt. The Dive Zone provides tanks, BCDs and Regulators and wetsuits for all practical sessions of the course. The fee includes transport for the two practical 'sea tests'.

Resource Requirements

For the SCUBA course the students will be provided with the PADI dive manual and dive tables and guide. However, they are expected to bring refill paper / folders or notebooks to all lessons at school. Texts and information resources will be provided in-class on a topic by topic basis.

For field trips students need to bring clipboards.

Medical Requirement

All students must supply a medical certificate from their GP to confirm that they are medically fit to undertake a course in SCUBA diving.

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.

Standards completed will be selected from:			
Achievement / Unit Standards	Description	Level	Credits
AS91155 V2 Biology 2.3	Demonstrate understanding of adaptation of plants or animals to their way of life	2	3
AS91158 V2 Biology 2.6	Investigate a pattern in an ecological community with supervision	2	4
AS91160 V2 Biology 2.8	Investigate biological material at the microscopic level	2	3
AS91190 V2 Earth & Space Science	Investigate how organisms survive in an extreme environment	2	4
AS91153 V2 Biology 2.1	Carry out a practical investigation in a biology context with supervision	2	4
AS91601 V1 Internal	Carry out a practical investigation in a biological context (Crabs) with supervision	3	4
AS91602 V1 Internal	Integrate biological knowledge to develop an informed response to a socio-scientific issue (Fish Finning)	3	3
AS91413 V1 External	Demonstrate understanding of processes in the ocean system	3	4
AS90831 V2 Internal	Education for sustainability	3	5
US4384 V3	SCUBA dive to 18m	3	7
US4403 V4	Complete a shore dive	3	4
US19851 V3 Internal	Describe the biology of a fin fish	3	5
US26510 V1 Internal	Demonstrate knowledge of ecosystems	4	4
US28405 V3 (former AS4400) Internal	Locate and identify marine species common to dive site	3	4

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 late assessment tasks will be made on an individual basis. 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 courses 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 do so.

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 students' own. Assessment tasks completed outside of examination conditions will require a signed statement of authentication from students.

Marking and Moderation

Students' 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 resource material will be issued.

Finally 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.

