## KAIKOURA HIGH SCHOOL



# OPTIONS BOOKLET 2019

### Programme of Study

Every effort is made to ensure students are able to study the subjects they want to. The school timetable is structured around student subject selection. However, if subjects do not attract sufficient student numbers they may not be able to run or may have to be offered with reduced teacher contact hours. Study through eLearning or Te Kura (The Correspondence School) may also be an option.

#### Subject selection is based around three factors:

- Skills & Ability
- > Interest
- Career Pathways

Students may not know exactly what they want to do when they finish secondary school but some serious thought should have been given to possible career options.

#### When selecting subjects students need to:

- 1. Be clear about what subjects they enjoy the most.
- 2. Be clear about their ability in each subject. Check with their teachers if necessary.
- 3. Identify their Vocational Pathway using www.youthguarantee.net.nz
- 4. Identify career possibilities in their vocational pathway.
- 5. Find out what subjects relate to jobs in their vocational pathway using www.careers.govt.nz
- 6. Consult with Form tutors about any of the above if necessary.

### **Careers Information**

Students must have a career plan and check that they have selected the right subjects for their career choice(s). A number of specific career pathways require particular subjects to be studied at school.

Remember the following:

- All careers require Numeracy to some level and Mathematics to an advanced level in a number of fields such as the Sciences.
- Literacy is also required to some level in all careers and English to an advanced level in information based careers such as Law.
- Science and Engineering careers usually require Mathematics, Chemistry and Physics as well as Biology in some cases.

It is important that all students understand the subject level required for entry into their intended career.

When planning for a career you can find careers information from the following information sources:

- The Careers Counsellor, and other Careers Department Staff;
- Appropriate tertiary training provider booklets;
- Youth Guarantee Website www.youthguarantee.net.nz for Vocational Pathways information;
- CareersNZ Website www.careers.govt.nz for all careers information;
- Career Quest to assist in career selection;
- Careers Information Leaflets;
- Jobs Galore Manual

### **Subject Requirements for Degree Courses**

University Entrance requirements for the following subjects are suggested or required for degree courses in the following areas:

Applied Science Accounting	All the sciences are useful along with Mathematics Very useful for Commerce
Biological Science	All the sciences are useful particularly Biology and Chemistry
Business Studies	Calculus can assist for Economics and Finance majors and Statistics for other majors
Humanities	Possible subjects are English, Languages, History, Geography, Classical Studies, Art History and Statistics
Law	No specific subjects but English and History provide a useful background (or other literacy based subjects)
Nursing	Biology and Chemistry
Physical Sciences	Physics, Chemistry, Calculus and Statistics
Social Science	Statistics is an advantage for majors in Geography, Economics and Psychology
Teaching	English and subjects of teaching interest
Technology	Calculus and Statistics are both often recommended along with Chemistry, Biology and/or Physics

It is important that subjects chosen in Year 13 meet the requirements for the university course being considered including any rank score requirements of the university.

### **Entry to University Courses**

In many cases entry into university courses is becoming more competitive. A pre-determined total of credits may be required over a number of subjects from a prescribed list, to produce a **rank score**. In some instances there are also specific subject requirements. It is important for **all students planning on attending universities to be aware of the requirements to enter their chosen course of study**.

### Subject Requirements for Other Tertiary Courses / Training

There are many tertiary training courses in almost every career area. Students not going to university will still be required to undertake training in whatever career they choose. School subject selection should, as far as is possible, be in line with the career direction students have in mind. All students must do their best to ensure that the courses they take at school enable them to meet the entry requirements of the tertiary courses they wish to enter.

### National Qualifications

Senior students at Kaikoura High School are working to gain credits from Achievement/Unit or Unit Standards toward the National Certificate of Educational Achievement/Unit (NCEA) at

Levels 1, 2 or 3. The NCEA is a standards-based qualification comprised of a mixture of both internally and externally assessed Achievement/Unit or Unit standards giving students credits on the National Qualifications Framework (NQF).

Copies of all the Achievement/Unit Standards and Unit Standards are available on the NZQA website: www.nzqa.govt.nz/ncea. The details of the requirements for each Achievement/Unit / Unit Standard are issued to students in Course Outlines by their subject teachers in February each year.

Internally assessed standards are assessed throughout the year. Most external assessments are examined at the end of the year from mid-November to early December. Some subjects have portfolio or practical work to submit. Students can gain Achieved, Achieved with Merit or Achieved with Excellence, with the latter being very demanding.

NCEA is all about excellence, be it students striving for and gaining Excellence grades or reaching their personal level of excellence with Achieved grades. NCEA is New Zealand's national school leaver qualification and as such is recognised by the tertiary sector and employers nationally and internationally.

### NCEA

### Please note – NCEA is currently under review by the government and may look very different in 2020, for 2019 we know that things will stay the same!

The National Certificate in Education Achievement/Unit (NCEA) is awarded at 3 levels.

#### Level 1 NCEA Requirements:

- 80 credits at Level 1 or above including;
  - 10 credits in numeracy and
  - 10 credits in literacy

Students will take six subjects each.

The Level 1 literacy and numeracy requirements must be met to achieve NCEA Level 1, 2 and 3 NCEA.

#### Level 2 NCEA Requirements:

- ➢ 60 credits at Level 2 or above and
- > 20 credits at any other level (Twenty Level 1 credits can count towards NCEA Level 2).

Students will take six subjects each. Students may select from level 2 or 1 for courses. If considering University students need to consider subjects which continue at Level 3.

#### Level 3 NCEA Requirements:

- ➢ 60 credits at Level 3 or above and
- 20 credits at Level 2

Students will take five subjects. Students may select from level 2 or 1 for courses. If considering University students should make sure their course contains enough approved subjects. All subjects are four hours per week and students have five hours of unsupervised study each week. Credits can count for more than one qualification.

*Please Note:* <u>All</u> Senior courses will offer 18 credits minimum – some possibly more.

All course costs are approximate at the time of printing.

#### University Entrance

To be awarded University Entrance you will need:

- NCEA Level 3
- > Three subjects with 14 credits each, in three approved subjects at Level 3 or above,
- 10 Literacy credits (Level 2 or above 5 credits in reading / 5 in writing)
- 10 Numeracy credits (Level 1 or above, either Achievement standards OR unit standards – 26623, 26626, 26627- all three required).

#### **NCEA Certificates endorsed with Merit and Excellence**

#### Certificate Endorsement

If a student gains 50 credits at Excellence, their NCEA will be endorsed with Excellence. Likewise, if a student gains 50 credits at Merit (or Merit and Excellence), their NCEA will be endorsed with Merit.

#### Course Endorsement

Course endorsement provides recognition for a student who has performed exceptionally well in an individual course.

Students will gain an endorsement for a course if, in a single school year, they achieve:

- > 14 or more credits at Merit or Excellence, and
- at least 3 of these credits from externally assessed standards and 3 credits from internally assessed standards.

Note: this does not apply to Physical Education, Religious Studies and Level 3 Visual Arts.

Students can monitor their progress towards course endorsement through their NZQA logon. A course endorsement is not a qualification. A course endorsement can be awarded even if a qualification for that level is not achieved. For example, a student may achieve a Merit endorsement for their Level 2 Mathematics course regardless of whether they achieve NCEA Level 2. More information about NCEA is available on line at www.nzqa.govt.nz.

### **Vocational Pathways**

The Vocational Pathways provide a clear framework for vocational options, programme design and careers advice, as well as improved links between education and employment. They are the product of a partnership between government agencies, the industry training sector, secondary and tertiary education representatives, and industry and employer representatives.

There are six pathways which allow NCEA Level 2 to be achieved with a Vocation Pathway Award. The pathways provide a coherent framework for foundation vocational education and training. They assist students to develop their career plan, so they are better informed and able to make appropriate choices to meet their goals.

#### NCEA Level 2 - Vocational Pathway Award

At Kaikoura High School it is possible for Level 2 students to gain one or more Vocational Pathway Awards by gaining 60 credits from the recommended standards and the 20 from the sector required standards within their timetabled subjects. The main pathways that can currently be gained are in Service Industries, Primary Industries and Creative Pathways. Outside timetabled subjects students can supplement their credits from STAR, Gateway and Trades Academy vocational training programmes.

#### **Vocational Pathway Award Tracking**

To ensure a Sector Vocational Pathway Award:

- Identify which Vocational Pathway(s) match your career plan
- Choose 6 subjects appropriate to your career plan
- > Check 60 recommended & 20 sector related standard credits are available in your subjects
- Consider changing subject choices or supplementing your credits from STAR, Gateway or Trades Academy where necessary to provide required credits



Each Vocational Pathway has been colour coded for ease of recognition to help students and teachers planning study programmes.

- Construction & Infrastructure (orange)
- Manufacturing & Technology (red)
- Primary Industries (green)
- Service Industries (blue)
- Social & Community Services (purple)
- Creative Arts (yellow)

Throughout the Curriculum Booklet the various standards that contribute to one or more Vocational Pathway have been colour coded to assist students when considering future pathways. Vocational Pathways standards for Level 3 are yet to be confirmed. For more information go to http://youthguarantee.net.nz/vocational-pathways/educationproviders-/

### **NCEA Exclusions List**

The Exclusions List was developed to avoid the use of credits from duplicate standards towards NZQF national qualifications (and awards and endorsements), including NCEA. Specifically, the registration of Achievement/Unit standards that recognised the same outcomes as other Achievement/Unit or unit standards necessitates a mechanism to prevent 'double dipping'. This means that when two standards are mutually exclusive (see the list below), you cannot use the credits for both to achieve a qualification or course endorsement.

http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/

### **New Zealand Scholarship**

The Award of New Zealand Scholarship provides recognition and monetary reward to top students in their last year of schooling. New Zealand Scholarship examinations enable candidates to be assessed against challenging standards, and are demanding for the able candidates in each subject.

Scholarship candidates are expected to demonstrate high-level critical thinking, abstraction and generalisation, and to integrate, synthesise and apply knowledge, skills, understanding and ideas to complex situations.

Approximately 3 per cent of Year 13 students studying each subject at Level 3 are awarded Scholarship, if they reach the standard that has been set. Scholarship can be sat as a single subject Scholarship Standard or in several subjects. Scholarship is examined by an external examination or an external submission of student work. Scholarship costs \$30 per subject to sit. There is one single Scholarship Standard per subject in most traditional school subjects.

### **Entering National Qualifications**

NCEA fees notices come out part way through the year; it costs \$76.70 to the government to get the record of your credits. Some credits from some courses may count towards other national certificates. Once you get your NSN number you can check the NZQA website for your entries etc.

### STAR – Secondary/Tertiary Alignment Resource

STAR is funded by the Ministry of Education to provide the first step for students who want to begin their careers pathway while still at school.

Kaikoura High School uses STAR funding to provide industry-based training in these subjects: Tourism, Photography, Agriculture/Horticulture, Hospitality, Trades, First Aid courses, Enterprise Studies and individual bookwork.

### GATEWAY

The Gateway programme (Funded by TEC -Tertiary Education Commission) is designed to strengthen the pathways for students from school to future education or employment. Structured workplace learning is a formalised learning arrangement set in an actual workplace for a sustained period of time, with a clear understanding about the knowledge and skills to be attained and the assessment of unit or Achievement/Unit standards. The Gateway Programme is available to Year 11-13 students. It delivers hands-on practical learning that leads to nationally recognised qualifications. Students go on Gateway placement one day a week, working towards industry based standards. Students are expected to gain a minimum of 20 credits in their Gateway course.

### **Subjects and Courses**

- Please read the subject criteria carefully and note any prior learning recommended.
- Some courses have been designed to help students to progress at an appropriate level for their learning needs. Staff will advise if these courses are suitable or not for a student.
- Some subjects may either run as a combined course of year levels, or not run at all. This will depend on numbers of students wanting a course and staffing available.
- Course fees can be paid off in instalments eg direct credit.

### Who to Get Advice From

- Students should talk to their subject teacher about advancement in that subject to another level.
- The Heads of Learning Area have an overall oversight of course requirements and have an active part to play in subject selection.
- Deans, along with the Head of Level, will assist with advice as to the appropriate nature of a course.

### Literacy and Numeracy at Level 1

Number of credits offered in Level 1 courses (aprox.)

Course	Literacy C	redits	Numeracy	Credits
	Internal	External	Internal	External
Accounting	7	3		
Economics	5	7		
Drama	18	4/8		
Dance	4	4		
English	13	8		
Mathematics	4		14	8
Health	12	8		
Physical Education	12			
Agriculture/Horticulture	3	4	4	
Biological Science	3	7	4	
Physical Science	4		8	8
General Science	4		4	
Geography	7	8		4
Digital Technology	7	3		

### UE Literacy at Level 2

Subject	Internal Reading	Internal Writing	External Reading	External Writing
Economics	4			8
Drama	13			4
English		6	4	4+4*
Geography			8*	8*
History	14		9*	9*

\* = these credits can be used for either reading or writing but not both.

### UE Literacy at Level 3

Subject	Internal Reading	Internal Writing	External Reading	External Writing
Accounting			4	
Drama	9			4
English		6	4+4*	4*
Chemistry		4		
Biology	9	3	12*	12*
General Science	12	8		
Physical Education	8			
Geography			12*	12*
History	10		16*	16*
Digital Technology	4			

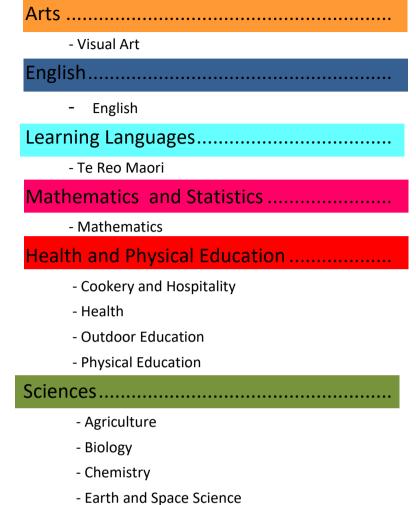
\* = these credits can be used for either reading or writing but not both.

Level One	Level Two	Level Three
Art	Art – Painting	Art – Photography
	Art – Design	Art – Design
	Art – Photography	Art – Painting
	Art History	Art History
usiness Studies	Economics	Enterprise Studies L2/L3
ccounting	Enterprise Studies L2/L3	Economics
conomics	Accounting	
	Business Studies	
Drama	Drama	Drama
Dance	Dance	Dance
nglish	English	English
	Media Studies	Media Studies
e Reo Maori	Te Reo Maori	Te Reo Maori
apanese	Japanese	Japanese
rench	French	Korean
panish	Korean	Mandarin
forean	Mandarin	French
orean 1andarin		
	German	German Germaich
German	Spanish	Spanish
panish	Tongan	Tongan
ongan	Maori Performing Arts	
1aori Performing Arts		Maori Performing Arts
lathematics	Mathematics	Mathematics (Statistics)
	Mathematics (Statistics)	Mathematics (Calculus)
ealth	Health	Health
	Psychology	
hysical Education	Physical Education	Physical Education
	Outdoor Education	
Agriculture/Horticulture		Aariculture /Horticulture
Agriculture/Horticulture	Agriculture/Horticulture	Agriculture/Horticulture Equine Studies
iological Science	Biology	Biology
-		
Physical Science Chemistry	Chemistry	Chemistry
	Physics	Physics
-1		
cience	General Science	General Science
obotics	Electronics' and electrical engineering	
eography	Geography	Geography
listory	History	History
	Classical Studies	Classical Studies
		Social Studies
Crafting History	Tourism	Tourism
Cookery & Hospitality	Cookery & Hospitality	
Digital Technology	Digital Technology	Digital Technology
Graphics	Graphics	Design and Visual Communication
Frade Skills	Trade Skills	
Gateway Pathways	Gateway Pathways	Gateway Pathways
Iusic Performance	Music Performance	Music Performance

Courses in bold are U.E. Approved

Subjects available through eLearning NetNZ or Te Kura (Corrospondence) and not KHS

### **INDEX**



- Earth and space S
- Physics

Social Sciences.....

- Business Studies
- Enterprise Studies
- Geography
- Tourism
- History
- Classics

Technology.....

- Trades
- Graphics

Alternative Learning.....

- eLearning
- Te Kura (Correspondence)
- Gateway Pathways

The visual arts develop students' conceptual thinking within a range of practices which at Kaikoura High School includes drawing, painting, printmaking, design and at some senior levels can include photography. Students explore, refine, and communicate ideas as they connect thinking, imagination, senses, and feelings to create works and respond to the works of others. Artists and art history are included as this allows students to observe and learn about a range of artists, artworks and theories in the arts. Achievement/Unit Standards are the only credits available at this school in this **subject.** 

Students can choose artist models and subject matter from a selection offered. This selection is chosen to fit the skills and techniques being taught at this level For each internal Achievement/Unit Standard students will do 2 to 4 tasks which will be presented in an A3 clearfile.

For the folio or external Achievement/Unit Standard students will do up to 8 tasks which will be presented on 2 x A1 portrait format sheets of card.

All internal work is done to inform the work done for the external Achievement/Unit Standard.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
AS 90914		Use drawing methods and skills recording information using wet and dry media. 1.2	1	4	1
AS 90915		Use drawing conventions to develop work in more than one field of practice. 1.3	1	6	1
AS 90916		Produce a body of work informed by established practice, which develops ideas, using a range of media. 1.4	1	12	E

Key: Required

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			

**Entry Requirements** – Nil

**Costs** – A \$20.00 fee is charged for materials but serious students should be willing and prepared to purchase additional materials and equipment appropriate to their specific needs.

#### Mrs H Parkinson

Students will do both internals from the one field. These two standards will be worked on concurrently but assessed using separate criteria. Subject matter is chosen by students with their choices being informed by genre and/or artist models that they have an affinity with. A list of appropriate genre and artist models is provided. This course is very demanding on a student's time, with deadlines needing to be strictly met.

Ask Mrs Parkinson if you wish to know more about these subjects.

Achievement/Unit Standard Title	Vocational Pathway	Level	Credits	Method
20 credits for each domain – Painting, Photography or Design. Each involve a practical body of work (folio). The stnadards range from AS 91315 – 91320.	All standards	2	Internals 8 Credits, external 12 credits.	2 Internal, 1 External per Domain.
Key: Required O Reco	ommended			

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



Entry Requirements – Entry at the discretion of the CAL.

**Costs** – A \$20.00 fee is charged for materials but serious students should be willing and prepared to purchase additional materials and equipment of their own that are appropriate to their specific needs. Photography students will be required to purchase some materials themselves. A limited number of cameras are available for loan as and when required although it is advisable you have your own digital SLR camera. A contract involving a financial bond must to be entered into with the school before students can use these cameras.

**Note:** A student may choose a double subject of art if they wish although this is not recommended unless you are highly motivated and intend applying for fine arts and university. To do this you will have to choose art as two subjects and you will do two internals and one external per subject. Design, Painting, Printmaking are all treated as separate subjects. Subject matter choices are made the same way as for Year 12. Talk to Mrs Parkinson if you require further information on each art subject.

Achievement/Unit Standard Title	Vocational Pathway	Level	Credits	Method
26 credits for each domain – Photography, Paint, Printmaking, Design. Each involve a practical body of work, analysing ideas and showing understanding. The standards range from AS91441-91458	All standards	3	Internals 4 credits, external 14 credits	3 Internal, 1 External per domain

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



#### Entry Requirements – At the discretion of the CAL

**Costs** – A \$20.00 fee is charged and serious students should be willing and prepared to purchase additional materials and equipment of their own that are appropriate to their specific needs. Some areas of these courses will require some personal expenses from the students over and above this fee charged.

Key: Required

One or two of these may be taken at this level

- Explore drama techniques of voice, body, movement, use of space
- Theatre conventions and forms performing arts technology
- Technical Stagecraft skills
- Performance: Watching live theatre
- Written Skills: reviewing, evaluation, reflection and Journal writing
- Devise your own skilful performance

There are a variety of standards that can be offered to students depending on their interests in the Performing Arts area. Approximately 20 credits will be offered.

The course has been combined across year levels in the past and may not run due to numbers.



### English

NCEA L1 English builds on the English knowledge and literacy skills learned in Years 7-10 English.

Students will continue to hone their academic and practical reading and writing skills as they respond to a range of written and visual texts. Good English skills are vital in many occupations for effective communication, active participation, critical thinking and problem solving.

The course will be developed in consultation with students.

All English standards can earn literacy credits. Selected students may be offered L1 communications unit standards.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
90849		Show understanding of specified aspect(s) of studied written text(s), using supporting evidence	1	4	E
90851		Show understanding of significant aspects of unfamiliar written text(s) through close reading, using supporting evidence	1	4	E
90052		Produce creative writing	1	3	I
90053		Produce formal writing	1	3	I
90855		Create a visual text	1	3	I
90856		Show understanding of visual and/or oral text(s) through close viewing and/or listening, using supporting evidence	1	3	I
90990		Demonstrate understanding of selected elements of media texts(s)	1	3	1

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			

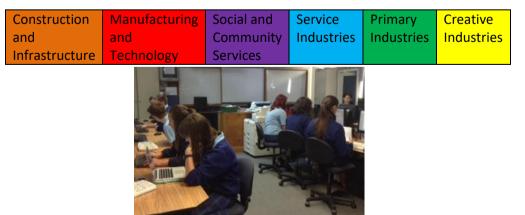
Entry Requirements – Open entry Costs – Print credits Equipment – Headphones



NCEA L2 English has a very strong focus on the analysis of literature and the development of academic reading and writing skills for tertiary study as well as for vocational pathways. Strong literacy skills, and the ability to communicate effectively orally are a basic requirement for all careers. L2 English is the main Year 12 subject that enables students to earn University Entrance literacy credits. The course will be developed in consultation with students.

Selected students may be offered L2 communications unit standards.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91098		Analyse specified aspect(s) of studied written text(s), supported by evidence	2	4	E
91100		Analyse significant aspects of unfamiliar written text(s) through close reading, supported by evidence	2	4	E
91101		Produce a selection of crafted and controlled writing	2	6	Ι
3492		Write a short report	2	2	I
91107		Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence	2	3	Ι
Key: Re	quired O	Recommended			



Entry Requirements – Open Entry. Ideally, 14 Level 1 English credits Costs – Print credits Equipment – Headphones, Google docs access at home

### English

NCEA L3 English has a very strong focus on using critical and analytical thinking skills to evaluate literature. Academic research, reading and writing skills for tertiary study will also be developed. As L3 English is an approved subject for University Entrance, students will have the opportunity to earn at least 14 credits. The course will be developed in consultation with students. Students who are not University Entrance candidates may be offered L3 communications unit standards.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91472		Respond critically to specified aspect(s) of studied written text(s), supported by evidence	3	4	E
91474		Respond critically to significant aspects of unfamiliar written texts through close reading, supported by evidence	3	4	E
91475		Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas	3	6	I
91478		Respond critically to significant connections across texts, supported by evidence	3	4	I
91480		Respond critically to significant aspects of visual and/or oral text(s) through close reading, supported by evidence	3	4	I

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



Entry Requirements – Ideally, 14 Level 2 credits and UE Literacy. Experience of externals is required.
Costs – Print credits

Equipment - Headphones, Google docs access at home

Te Reo Māori is one of the official languages of New Zealand. This vibrant language supports the development and celebration of our national identity and enhances the mana whenua of our indigenous people. This course allows students to explore this language and tikanga in a safe and supportive environment. Exact standards covered during the year will be negotiated at the start of next year with a mixture of language and tikanga standards being offered.

Standard No.	Vocational Pathway	Achievement/Unit/Unit Standard Title	Level	Credits	Method
91085		Whakarongo kia mõhio ki te reo o tõna ao	1	6	I
91086		Kōrero kia whakamahi i te reo o tōna ao	1	6	I
91089		Waihanga tuhinga i te reo o tōna ao	1	6	I
27106		Describe the terms associated with whakapapa and use them within a family structure	1	2	I
27108		Describe the protocols and roles associated with pōwhiri in accordance with tikanga and or kawa	1	2	1
16165		Describe a hui and the roles associated with hui in accordance with tikanga and or kawa	1	2	1

The above standards are based on a Year 11 programme but a if there is enough interest a Year 12 course will run with a similar programme.

Key: Required

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			

Mathematics is a skills-based subject where advancement is dependent on previous knowledge. It is also concerned with problem solving and communicating mathematical ideas in real-life situations. Mathematics is a pre-requisite for most careers. In particular, Mathematics is necessary for engineering of all types, accountant, actuary, surveyor (land and quantity), teaching, computer programmer, nurse, pilot, banker, architectural designer, insurance assessor, weather forecaster, statistician and most trades.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method				
1.1		Apply numeric reasoning in solving problems	1	4	I				
1.2		Apply algebraic procedures in solving problems	1	4	E				
1.4		Apply linear algebra in solving problems	1	3	I				
1.7		Apply right-angle triangles in solving problems	1	3	I				
1.10		Investigate a given multivariate data set	1	4	I				
1.3		Investigate relationships between tables, equations and graphs	1	4	E				
Key: Requ	Key: Required Recommended								

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



#### **Entry Requirements** – Nil

**Costs** – Write-on HW text book with CD ROM - \$25.00. Students are expected to have basic mathematical equipment including a scientific calculator.

Statistics is a branch of Mathematics dealing with the collection, analysis, interpretation and presentation of numerical data.

The Year 12 course is an introduction into Statistics and Probability.

A proficiency at report writing is recommended for the internal component of the course.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91257		Apply graphical methods in solving problems	2	4	I
91260		Apply network methods in solving problems	2	2	I
91263		Design a questionnaire	2	3	I
91264		Use statistical methods to make an inference	2	4	I
91266		Evaluate a statistically based report	2	2	I
91267		Apply probability methods in solving problems	2	4	E

Key: Required

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – 12 credits or more from Achievement Standards at NCEA Level 1 **Costs** – Write-on HW text book with CD Rom - \$25.00. Students are expected to have basic mathematical equipment including a scientific calculator

### **Mathematics and Statistics**

Mathematics is a skills-based subject where advancement is dependent on previous knowledge. It is also concerned with problem solving and communicating mathematical ideas in real-life situations. The course is largely algebraic in nature preparing the student for Yr 13 Calculus and Statisics. A pass in Level 1 Algebra is recommended.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
2.6		Apply algebraic methods in solving problems	2	4	E
2.14		Apply systems of equations in solving problems	2	2	I
2.4		Applying trigonometric relationships	2	3	I
2.9		Use statistical methods to making an inference	2	4	I
2.3		Apply sequences and series in solving problems	2	2	I
2.7		Apply calculus methods in solving problems	2	5	E
Key: Requ	uired	Recommended	1	1	1

Construction<br/>andManufacturing<br/>andSocial and<br/>CommunityService<br/>IndustriesPrimary<br/>IndustriesCreative<br/>IndustriesInfrastructureTechnologyServicesServicesPrimary<br/>IndustriesCreative<br/>Industries



**Entry Requirements** – 12 credits or more from Achievement/Unit Standards at NCEA Level 1 including a pass in Algebra

**Costs** – Write-on HW text book with CD Rom - \$25.00. Students are expected to have basic mathematical equipment including a scientific calculator.

### **Mathematics and Statistics**

Mr W Lonsdale

Statistics is a branch of Mathematics dealing with the collection, analysis, interpretation and presentation of numerical data.

The Year 13 course covers three major aspects of Statistics as internal assessments with two external Probability papers.

The internal component of the course requires proficiency at report writing.

Standard No.	Vocational Pathways	Achievement/Unit Standard Title	Level	Credits	Method
3.8		Investigate time, series, data	3	4	I
3.9		Investigate bivariate measurement data	3	4	I
3.10		Use statistical methods to make a formal inference	3	4	I
3.13		Probability	3	4	E
3.14		Probability distributions	3	4	E

Key: Required

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – Minimum of 12 or more credits in Mathematics at Level 2 at the discretion of the CAL

**Costs** – Write-on HW text book with CD Rom - \$25.00. Students are expected to have basic mathematical equipment including a scientific calculator.

### **Mathematics and Statistics**

Calculus is the end point of secondary school Mathematics. It is Mathematics describing change in the physical world. As a subject it is first introduced in the Year 12 curriculum. It relies heavily on algebra skills learnt in Year 12. It is a prerequisite for Engineering, Physics and Surveying at tertiary level.

Standard No.	Vocational Pathways	Achievement/Unit Standard Title	Level	Credits	Method
91575		Apply trigonometric methods in solving problem	3	4	I
91578		Apply differentiation methods in solving problems	3	6	E
91579		Apply integration methods in solving problems	3	6	E

Key: Required

Recommended

Construction<br/>andManufacturing<br/>andSocial and<br/>Community<br/>ServicesService<br/>IndustriesPrimary<br/>IndustriesCreative<br/>Industries

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**Entry Requirements** – Minimum of 12 or more credits in Mathematics at Level 2 at the discretion of the CAL

**Costs** – Write-on HW text book with CD Rom - \$25.00. Students are expected to have basic mathematical equipment including a scientific calculator.

This course is designed for students wanting to gain knowledge about the hospitality industry or who want to improve their career options.

This course leads on to further cookery and hospitality study at Level 2. It also leads into catering courses at tertiary institutes and opportunities in the hospitality and tourism industry, including working as a chef or following a nutrition pathway toward becoming a dietician, nurse or other health care specialist. More Unit standards can be added if the student is interested.

Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
	Prepare and present fruit and vegetables in the hospitality industry	1	3	I
	Prepare and present meat in the hospitality industry	1	4	I
	Prepare and present egg and cheese dishes in the hospitality industry	1	3	1
	Demonstrate knowledge of frying and grilling as cookery methods in the commercial catering industry	1	3	I
	Prepare and present hot finger food in the hospitality industry	1	2	Ι
	Prepare a cake, sponge and a batch of scones in the hospitality industry	1	3	Ι
	Prepare, construct, and garnish non- alcoholic cocktails for the hospitality industry	1	2	I
	Vocational Pathway	Pathway       Prepare and present fruit and vegetables in the hospitality industry         Prepare and present meat in the hospitality industry       Prepare and present meat in the hospitality industry         Prepare and present egg and cheese dishes in the hospitality industry       Demonstrate knowledge of frying and grilling as cookery methods in the commercial catering industry         Prepare and present hot finger food in the hospitality industry       Prepare a cake, sponge and a batch of scones in the hospitality industry         Prepare, construct, and garnish nonalcoholic cocktails for the hospitality       Prepare industry	Pathway       Prepare and present fruit and vegetables in the hospitality industry       1         Prepare and present meat in the hospitality industry       1         Prepare and present meat in the hospitality industry       1         Prepare and present egg and cheese dishes in the hospitality industry       1         Demonstrate knowledge of frying and grilling as cookery methods in the commercial catering industry       1         Prepare and present hot finger food in the hospitality industry       1         Prepare a cake, sponge and a batch of scones in the hospitality industry       1         Prepare, construct, and garnish nonal coholic cocktails for the hospitality       1	PathwayPrepare and present fruit and vegetables in the hospitality industry13Prepare and present meat in the hospitality industry14Prepare and present meat in the hospitality industry13Prepare and present egg and cheese dishes in the hospitality industry13Demonstrate knowledge of frying and grilling as cookery methods in the commercial catering industry13Prepare and present hot finger food in the hospitality industry12Prepare a cake, sponge and a batch of scones in the hospitality industry13Prepare, construct, and garnish non- alcoholic cocktails for the hospitality12

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



This course is designed for students wanting to gain knowledge about the hospitality industry or who want to improve their career options.

This course leads on to further cookery and hospitality study at catering courses in tertiary institutes and the possibility of career opportunities within the hospitality and tourism industry, including working as a chef or following a nutrition pathway toward becoming a dietician, nurse or other health care specialist. More Unit standards can be added if the student is interested.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
167		Practise food safety methods in a food business	2	4	I
13281		Prepare and present basic sandwiches for service	2	2	1
13278		Cook food items by roasting	2	2	I
13276		Cook food items by grilling	2	2	I
13271		Cook food items by frying	2	2	I
13283		Prepare and present salads for service in a commercial kitchen	2	2	I
13285		Sharpen and maintain knives	2	2	1
13280		Prepare fruit and vegetables in a commercial kitchen	2	2	I

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			

Entry Requirements – Open entry Costs – \$80 Course related costs



This course allows students to begin to learn about ways for healthier outcomes that can be encouraged and developed in today's society. Many different ways of enhancing peoples well-being are explored.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title		Credits	Method
90971		Take action to enhance an aspect of personal well-being.	1	3	I
90973		Demonstrate understanding of interpersonal skills used to enhance relationships.	1	5	I
90974		Demonstrate understanding of strategies for promoting positive sexuality.	1	4	I
90975		Demonstrate understanding of issues to make health-enhancing decisions in drug-related situations.	1	4	E
Key: Requ		Recommended	Creativ		

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



#### Entry Requirements – Nil

**Costs** – The costs are \$60.00 for workbooks and one-day team building and personal challenge trip (*tbc*).

This course allows students to develop their critical thinking skills and put them into action to understand and achieve healthier outcomes in todays society. These topics include; Adolescent Health Issues (Alcohol, Sexual Health), Personal Safety & Interaction with Others, Stress, Gender & Sexuality, Disappointment, Loss & Grief, and Health Promotion. Classes choose from the list below.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91239		Analyse issues related to sexuality and gender to develop strategies for addressing the issues	2	5	I
91237		Take action to enhance an aspect of people's well-being within the school or wider community.	2	5	I
91235		Analyse and adolescent health issue	2	5	E
91236		Evaluate factors that influence people's ability to manage change	2	5	I
Key: Requi	ired O	Recommended		•	

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



#### Entry Requirements - Nil

**Costs** – Approximately \$60.00 – for a one-day team building and personal challenge trip (cost tbc) Cost of external activities will be confirmed early in 2019.

This is an advanced and comprehensive course which requires students to undergo independent research and analysis of a variety of issues evident in the world today. These topics include; Health Practices, Ethical Issues (Euthanasia, Abortion, Genetic Modification...) & Drugs (Methamphetamine, P, Heroin), Alternative forms of medicine (Traditional Maori, Alternative, Western Scientific).

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91461		Analyse a New Zealand health issue.	3	5	1
91462		Analyse an international health issue.	3	5	E
91463		Evaluate health practices currently used in New Zealand.	3	5	I
91464		Analyse a contemporary ethical issue in relation to well-being.	3	4	I
91465		Evaluate models for health promotion.	3	5	E
Key: Red	quired <b>O</b> Re	commended			

and		Community		Creative Industries
Infrastructure	Technology	Services		



#### Entry Requirements – Nil

**Costs** – Approximately \$60.00 for workbooks and one-day team building and personal challenge trip (cost tbc). Cost of external activities will be confirmed early in 2017.

This course provides practical learning experiences in outdoor activities, and opportunities for personal development through adventure and challenges. Students will develop initiative and leadership skills through accepting responsibility, decision making, team work and coping with adversity. Assessment is through a mixture of both internal and external providers, and each year the course content is modified to suit student's interests and abilities

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
20141		Complete beginner orienteering courses	1	1	1
90968	•	Demonstrate, and show understanding of, responsible behaviour for safety during outdoor education activities	1	3	I
20152		Experience and complete abseiling sessions	1	1	1
20210	$\overline{\mathbf{O}}$	Experience Rock Climbing	1	1	1
426	$\overline{\mathbf{O}}$	Experience Camping	2	3	1
425	$\overline{\mathbf{O}}$	Experience Day Tramps	2	3	I
4596	$\overline{\mathbf{O}}$	Snowboard on beginner terrain	2	4	1
28319		Snorkel dive in open water	2	2	1

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – Students must be willing to attend some assessments outside of school hours, and are expected to maintain workload across all other subjects **Costs** – This varies greatly depending on choice selection \$200-600.

Mr M Thomson

opportunities for personal development through adventure and challenges. Students will develop initiative and leadership skills through accepting responsibility, decision making, team work and coping with adversity. Assessment is through a mixture of both internal and external providers, and each year the course content is modified to suit student's interests and abilities

Reg. No.	Vocational	Achievement/Unit Standard Title	Leve	Credits	Met
	Pathway			dits	Method
20141		Complete beginner orienteering courses	1	1	1
90968		Demonstrate, and show understanding of,	1	3	I
		responsible behaviour for safety during outdoor			
		education activities			
489		Demonstrate sea kayaking skills on sheltered or	2	3	I
		slow-moving water			
91333		Analyse the application of risk management	2	3	I
		strategies to a challenging outdoor activity			
426		Experience Camping	2	3	1
20159		Gather and apply weather information to an	2	2	I
		outdoor recreation activity			
444		Demonstrate basic rock climbing movement	2	1	Ι
20152	Ŏ	Experience and complete abseiling sessions	1	1	I
20120	Ŏ	Experience Rock Climbing	1	1	1
17468	Ŏ	Alpine ski downhill on beginner terrain	2	4	1
20837	$\overline{\mathbf{O}}$	Mountain bike on easy to intermediate terrain	1	1	

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



Entry Requirements – Students must be willing to attend some assessments outside of school hours, and are expected to maintain workload across all other subjects
 Costs – This varies greatly depending on choice selection \$200-600.

This course introduces a variety of foundation concepts, and is a mix of both theory and practical lessons. Students will gain valuable skills and insight into improving participation, communication, physical performance and self-management. This course is student driven and tailored to suit the learning needs and interests of each individual year group.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
90962		Participate actively in a variety of physical activities and explain factors that influence own participation.	1	5	1
90964		Demonstrate quality movement in the performance of a physical activity	1	5	I
90967		Demonstrate strategies to improve the performance of a physical activity and describe the outcomes	1	3	1
90969		Take purposeful action to assist others to participate in physical activity	1	2	I
90970		Demonstrate self-management strategies and describe the effects on participation in physical activity	1	3	I

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



Entry Requirements – A positive attitude and enthusiasm to learn in, through and about physical activity. The ability to work independently and meet deadlines is required.
Costs – The costs are approximately \$50.00 for workbooks. Cost of external activities will be confirmed early in 2019.

This course expands on the foundation concepts learnt at Level 1 physical Education, with a balance of both theory and practical lessons. Students will gain valuable skills and insight into improving leadership, trip planning, physical performance, participation and communication. The course is student driven, and tailored to suit the learning needs and interests of each individual year group.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91327	Examine the role and significance of physical activity in the lives of young people in New Zealand.		2	3	I
90328		Demonstrate understanding of how and why biophysical principles relate to the learning of physical skills.	2	5	I
91330		Perform a physical activity in an applied setting.	2	4	I
91332		Evaluate leadership strategies that contribute to the effective functioning of a group.	2	4	1
91335		Examine the implementation and outcome(s) of a physical activity event or opportunity.	2	3	I

Key: Required

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – A positive attitude and enthusiasm to learn in, through and about physical activity. The ability to work independently and meet deadlines is required. **Costs** – Approximately \$50.00 for workbooks.

This course expands on concepts learnt at Level 2 Physical Education, with a balance of both theory and practical lessons. Students will gain valuable skills and insight into improving leadership, communication, physical performance and organisation. The course is student driven and tailored to suit the learning needs and interests of each individual year group.

Reg. No.	Vocational Pathways	Achievement/Unit Standard Title	Level	Credits	Method
91500		Evaluate the effectiveness of a performance improvement programme.	3	4	I
91501		Demonstrate quality performance of a physical activity in an applied setting.	3	4	1
91502		Examine a current physical activity event, trend, or issue and its impact on New Zealand society.	3	4	I
91503		Evaluate the use of health promotion to 3 influence participation in physical activity.		5	I
91505		Examine contemporary leadership principles applied in physical activity contexts.	3	4	I
Key: Re	equired O Re	commended		-	-

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – A positive attitude and enthusiasm for physical activity. The ability to work independently and to meet deadlines is required.

Costs - \$180.00 to cover the travel and equipment costs of the Outdoor Expedition (tbc),

### Sciences

Agriculture/Horticulture involves both practical and theoretical work, covering the material such as:

- Pasture/crop management practices/ Horticultural practices and procedures
- Animal husbandry / reproductive technologies
- Primary Industry Production in New Zealand
- Impact on the Environment
- Aquaculture (mussel farming)
   The school has extended its accreditation to deliver a wider variety of
   industry based standards. The practical component may involve field trips
   or short courses. Students are encouraged to work towards a Primary
   Industry Pathway as well as Level 2. Standards listed below are an
   indication only.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
AS 91293	$\bigcirc$	Demonstrate understanding of livestock reproductive techniques in commercial production in New Zealand	2	4	1
AS 91294		Demonstrate understanding of how NZ commercial management practices influence livestock growth and development	2	4	E
AS 91297	•	Demonstrate understanding of land use for primary production in New Zealand	2	4	E
AS 91298	0	Report on the environmental impact of the production of a locally produced primary product	2	4	1
US 16337		Outline NZ Greenshell mussel industry	2	10	1

Key: Required Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – Nil **Costs** – \$20.00 for course materials.

### Sciences

The study of life and living things, Agri/Bio Science is a broad science that can cover topics from the agriculture and biology domains. The course is a mix of internals and externals with a focus on the environment around us as context for the internal topics. There is flexibility for the class to decide where their interests lie at the start of the year to select the standards that will make up the 18 credits offered in the course. Standards that will be chosen from are shown below.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
AS 90925/90918		Carry out a practical investigation in a biological/agricultural context, with direction	1	4	1
90160		Demonstrate knowledge of the impact on the environment of primary production management practices	1	3	I
90948		Demonstrate understanding of biological ideas relating to genetic variation	1	4	E
90921		Demonstrate knowledge of livestock management practices	1	5	E
90157		Demonstrate practical skills used in agricultural or horticultural production	1	4	I
90949		Investigate life processes and environmental factors that affect them	1	4	I
90928		Demonstrate understanding of biological ideas relating to the life cycle of flowering plants	1	4	E
US 23783		Grow and maintain plants	1	3	I
US 23782		Identify containers, material plants and tools	1	2	I

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



#### Entry Requirements - Nil

**Costs** – \$40.00 covers work books, any field trips will be additional.

Biology involves both practical and theoretical work, covering the following topics:

- Communities and Populations
- Ecology camp (cost involved)
- Genetics and Gene Expression
- Human Systems
- Cell Biology

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91153		Carry out a practical investigation in a biology context with supervision.	2	4	I
91154		Analyse the biological validity of the information presented to the public.	2	3	1
91155		Demonstrate understanding of adaptation of plants or animals to their way of life.	2	3	1
91156		Demonstrate understanding of life processes at the cellular level.	2	4	E
91157		Demonstrate understanding of genetic variation and change.	2	4	E
91158		Investigate a pattern in an ecological community, with supervision.	2	4	I
91159		Demonstrate understanding of gene expression.	3	4	E
91160		Investigate biological material at the microscopic level.	3	4	I

Key: Required

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – Level 1 Biological Science 12 credits. Entry is at the discretion of CAL.

**Costs** – \$40.00 covers workbook, science competitions and any visiting shows. Plus the Ecology camp has an approximate cost of \$200.00 – this a compulsory part of the course.

Biology is the study of living things and systems. At Level 3 we continue some of the work started in Year 12 but also move into studying Evolution and Human Evolution. Biology involves both practical and theoretical work, with an emphasis on self -driven learning. There is a camp that provides opportunity for credits. Biology is a good subject to take if considering any science study at university or polytech, as a back ground subject for careers in nursing, veterinary and animal science, plant and horticultural sciences, viticulture, conservation and ecology, teaching, forensic science, biotechnology, outdoor education, biochemistry, and environmental science.

Standard No.	Vocational Pathways	Achievement/Unit Standard Title		Credits	Method
91601		Carry out a practical investigation in a biological context, with guidance	3	3	I
91602		Integrate biological knowledge to develop an informed response to a socio-scientific issue.	3	4	I
91604		Demonstrate understanding of how an animal maintains a stable internal environment	3	3	I
90828		Evaluate a personal action that contributes towards a sustainable future	3	6	I
91605		Demonstrate understanding of evolutionary processes leading to speciation	3	4	E
91606		Demonstrate understanding of trends in human evolution	3	4	E

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



Entry Requirements – Level 2 Biology is recommended. Entry is at the discretion of CAL.
Costs – \$40.00 covers workbook, science competitions and any visiting shows.
Camp at a rocky shore. approximate cost \$200.00.

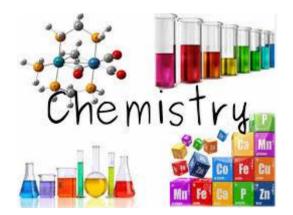
# Sciences

Chemistry involves both practical and theoretical work, covering the following topics:

- Atomic Structure, Bonding and the Periodic Table
- Oxidation and Reduction
- Precipitation and qualitative analysis
- Organic Chemistry
- Acid and Base Titrations and quantitative analysis.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91161		Carry out Quantitative Analysis	2	4	I
91162		Carry out procedures to identify lons	2	3	I
91163		Demonstrate understanding of the chemistry used in the development of a current technology	2	3	1
91164		Demonstrate understanding on bonding, structure, properties and energy changes.	2	5	E
91165		Demonstrate understanding of the properties of selected organic compounds	2	4	E
91167		Demonstrate understanding of oxidation- reduction	2	3	I

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – Level 1 Physical Science (pref. Chemistry) 12 credits. Entry is at the discretion of CAL.

**Costs** – \$40.00 covers workbook, science competitions and any visiting shows.

# 2012 L2CHE: Chemistry – Level

### Sciences

Chemistry involves both practical and theoretical work, covering the following topics:

- Redox Reactions
- Atomic Structure and Thermochemistry
- Applications of Acids and Bases in our everyday lives.
- Quantitative analysis
- Organic Chemistry
- Spectroscopy

Standard No.	Vocational Pathways	Achievement/Unit Standard Title	Level	Credits	Method
91387		Carry out an investigation in chemistry involving quantitative analysis	3	4	1
91388		Demonstrate understanding of spectroscopic data in chemistry	3	3	I
91389		Demonstrate understanding of chemical processes in the world around us	3	3	1
91390		Demonstrate understanding of thermochemical principles and the properties of particles and substances.	3	5	E
91391		Demonstrate understanding of the properties of organic compounds	3	5	E
91393		Demonstrate understanding of oxidation-reduction processes.	3	3	I

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – Chemistry Level 2 is strongly recommended. Entry is at the discretion of CAL.

**Costs** – \$40.00 covers workbook, field trips may be extra.

This is a generalist science course for those with an interest in science but who may not be making a career out of science subjects. You will select your own course/assessments from a range of options depending on your area of interest.

This course is assessed by internal standards only. Credits vary between 18 and 24 depending on the standard chosen.

Reg. N	o. Vocatior	nal Pathway	Achievement/U	nit Standard 1	litle	Level	Credits	Method
90943			Investigate impl everyday life	ications of he	at for	1	4	I
90945			Investigate implications of the use of carbon compounds as fuels			1	4	I
90946			Investigate the i properties of me	-		1	4	1
90952			Demonstrate ur formation of sui Zealand	-		1	4	I
90953			Demonstrate ur cycling	nderstanding o	of carbon	1	4	Ι
90954			Demonstrate ur of astronomical			1	4	I
Key:	Required	O Recomm	mended					
	Construction and Infrastructure	Manufacturing and Technology	Social and Community Services	Service Industries	Primary Industries	Creati Indust	-	



# Sciences

Level 2 General Science is a course that touches on all aspects of science but has an Earth and Space science focus. There are standards relating to Space, earth science, organisms environment and practical's. It is for students who wish to continue in a science programme but who do not necessarily want to specialise.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91187		Carry out a practical Earth and space science investigation	2	4	I
91188		Examine an Earth and Space science issue and the validity of the information communicate to the public.	2	4	Ι
91189		Investigate geological process in a new Zealand locality	2	4	I
91190		Investigate how organisms survive in an extreme environment.	2	4	I
91191		Demonstrate understanding of the cause of extreme earth events in New Zealand	2	4	E
91192		Demonstrate understanding of stars and planetary systems	2	4	E
91193		Demonstrate understanding of the physical principles related to the Earth System	2	4	E

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – Some Level 1 Science credits would help. **Costs** – \$40.00 covers work books, any field trips will be additional. This is a general science course focussed around earth and space science. Topics include:

- Ocean Systems
- Atmospheric Systems
- Geology
- Astronomy

Depending on the students learning interests they may also be given the opportunity to undertake learning around Education for Sustainability

I Achievement/Unit Standard Title	Level	Credits	Method
Carry out an independent practical Earth and Space Science investigation	3	4	I
Investigate a socio-scientific issue in an Earth and Space Science context	3	4	I
Investigate the evidence related to dating geological event(s)	3	4	I
Demonstrate understanding of processes in the ocean system	3	4	E
Demonstrate understanding of processes in the atmosphere system	3	4	E
Investigate an aspect of astronomy	3	4	I
Evaluate a planned personal action that contributes toward a sustainable future.	3	6	I
	Carry out an independent practical Earth and Space Science investigation Investigate a socio-scientific issue in an Earth and Space Science context Investigate the evidence related to dating geological event(s) Demonstrate understanding of processes in the ocean system Demonstrate understanding of processes in the atmosphere system Investigate an aspect of astronomy Evaluate a planned personal action that	Carry out an independent practical Earth and Space       3         Science investigation       3         Investigate a socio-scientific issue in an Earth and Space Science context       3         Investigate the evidence related to dating geological event(s)       3         Demonstrate understanding of processes in the ocean system       3         Demonstrate understanding of processes in the atmosphere system       3         Investigate an aspect of astronomy       3	Carry out an independent practical Earth and Space Science investigation34Investigate a socio-scientific issue in an Earth and Space Science context34Investigate the evidence related to dating geological event(s)34Demonstrate understanding of processes in the ocean system34Demonstrate understanding of processes in the atmosphere system34Investigate an aspect of astronomy34Evaluate a planned personal action that36

Construction<br/>andManufacturing<br/>andSocial and<br/>Community<br/>ServicesService<br/>IndustriesPrimary<br/>IndustriesCreative<br/>Industries



**Entry Requirements** – Level 2 Science 12 credits (from either a specific or general science course)

**Costs** – \$40.00 covers work books, any field trips will be additional.

# Sciences

This is a course based around specific sciences of Chemistry and Physics. There will be approximately half the course based on each area.

Topics will include: Acids and Alkalis Metals and Metal Compounds Rates of Chemical Reactions Energy, Heat and Electricity Mechanics, Forces and Motion

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
				ts	od
90943		Investigate implications of heat for everyday life	1	4	I
90947		Investigate selected chemical reactions	1	4	I
90940		Demonstrate understanding of mechanics	1	4	E
90944		Demonstrate understanding of acids and bases	1	4	E
90936		Demonstrate understanding of the physics of an application	1	2	I
90941		Demonstrate understanding of the chemistry of an application	1	2	1
90937		Demonstrate understanding of aspects of electricity and magnetism	1	4	E
Key: Require	ed O Red	commended			

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community			
Infrastructure	Technology	Services			



Entry Requirements – Nil Costs – \$40.00 covers work books, any field trips will be additional. Physics involves both practical and theoretical work, covering the following topics:

- Wave Motion
- Practical Skills
- Electricity and Magnetism
- Atoms and Radioactivity
- Mechanics of force, motion, momentum and energy

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91168		Carry out a practical physics investigation	2	4	I
91169		Demonstrate understanding of physics relevant to a selected context	2	2	I
91172		Demonstrate understanding of atomic and nuclear physics	2	3	I
91171		Demonstrate understanding of mechanics	2	6	E
91173		Demonstrate understanding of electricity and magnetism	2	6	E
91170		Demonstrate understanding of waves	2	4	E

Key: Required

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



Physics involves both practical and theoretical work, covering the following topics:

- Practical Skills
- Linear Motion
- Rotational Motion and SHM
- Wave Motion
- Direct Current and Capacitors
- Electromagnetism
- Alternating Electricity
- Atomic Spectra and Photoelectric Effect and Nuclear Power

Reg. No.	Vocational Pathways	Achievement Standard Title	Level	Credits	Method			
91521		Carry out a practical investigation	3	4	I			
91522		Demonstrate understanding of the application of physics	3	3	I			
91523		Demonstrate understanding of wave systems	3	4	E			
91524		Demonstrate understanding of mechanical systems	3	6	E			
91525		Demonstrate understanding of Modern physics	3	3	I			
91526		Demonstrate understanding of electrical systems	3	6	E			
Key: Red	Key: Required Recommended							

Construction<br/>andManufacturing<br/>and<br/>InfrastructureSocial and<br/>Community<br/>ServicesService<br/>IndustriesPrimary<br/>IndustriesCreative<br/>Industries



**Entry Requirements** – Physics Level 2 (minimum 10 credits), and competence in Mathematics. Entry is at the discretion of CAL.

Costs – \$40.00 covers work books, any field trips will be additional.

**13PHY: Physics – Level 3** 

Learning Business gives insights into the general environment of resource allocation decisions, opportunity costs and project evaluation that are crucially important in many areas.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits		Method			
90981		Make a financial decision for an individual or group	1	3	I				
90983		Demonstrate understanding of consumer choices, using scarcity and/or demand	1	4	E				
90985		Demonstrate understanding of producer choices using supply	1	3	E				
90986		Demonstrate understanding of how consumer, producer and/or government choices affect society, using market equilibrium	1	5	E				
90984		Demonstrate understanding of decisions a producer makes about production	1	5	I				
Key: Requ	Key: Required O Recommended								

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			





**1BUS: Business Studies - Level 1** 

Entry Requirements – Nil Costs – Workbook approximately \$25

This course covers the Lion Foundation Young Enterprise Scheme New Zealand YES course. YES is an experiential business programme. It involves working through the process of setting up and running a real business. Some of the topics covered are



- Business Planning
- Company Reports
- Problem Solving
- Marketing
- Accounting



Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
91382		Develop a marketing plan for a new or existing product	3	6	I
91384		Carry out, with consultation, an innovative and sustainable business activity	3	9	Ι

Key: Required

Recommended [

	Manufacturing and	Social and Community			Creative
Infrastructure		Services	muustnes	industries	industries

#### **Entry Requirements** – Nil

Costs – Costs involved in setting up and running a business. Cost for YES Registration

Geography is the study of the interaction between people and their natural environment. This course investigates both environments by applying skills and analysing geographical issues. This is a suggested outline but open to negotiation with the final class.

An additional GIS internal standard can be completed in negotiation with the class if the class successfully completes the planned work.

Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
	Demonstrate geographic understanding of environments that have been shaped by extreme natural event(s)	1	4	E
	Demonstrate geographic understanding of population concepts	1	4	E
	Apply concepts and basic geographic skills to demonstrate understanding of a given environment	1	4	E
	Conduct geographic research, with direction	1	4	1
	Demonstrate geographic understanding of the sustainable use of an environment	1	3	I
		Pathway       Demonstrate geographic understanding of environments that have been shaped by extreme natural event(s)         Demonstrate geographic understanding of population concepts         Apply concepts and basic geographic skills to demonstrate understanding of a given environment         Conduct geographic research, with direction         Demonstrate geographic understanding of a given environment	Pathway       Demonstrate geographic understanding of environments that have been shaped by extreme natural event(s)       1         Demonstrate geographic understanding of population concepts       1         Apply concepts and basic geographic skills to demonstrate understanding of a given environment       1         Conduct geographic research, with direction       1         Demonstrate geographic understanding of a given environment       1	PathwayMathematical StressRef. cfDemonstrate geographic understanding of environments that have been shaped by extreme natural event(s)14Demonstrate geographic understanding of population concepts14Apply concepts and basic geographic skills to demonstrate understanding of a given environment14Conduct geographic research, with direction14Demonstrate geographic understanding of a given environment13

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



A knowledge of Geography is an entry point to many careers around the world, such as town and transport planning, chartered surveying, land and water management, environmental consultancy, development, tourism, conservation, demography, housing and social welfare.

Many Geographers choose careers in information technology, administration and management, the financial sector, and marketing. In all these areas, the skills portfolio, together with an interest in the world and people about you, are highly relevant.

Geography can provide a good wide knowledge base and provides an arts balance for science students and science for arts students.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method				
91240		Demonstrate geographic understanding of a large natural environment	2	4	E				
91242		Demonstrate geographic understanding of differences in development	2	4	E				
91243		Apply geography concepts and skills to demonstrate understanding of a given environment	2	4	E				
91241		Demonstrate geographic understanding of an urban pattern	2	3	I				
91244		Conduct geographic research with guidance	2	5	I				
Key: Requ	Key: Required Recommended								

			-		
Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – Open to all students – NCEA Level 1 Geography an advantage **Costs** – To be arranged. Workbooks can be purchased.

Geography is the study of the interaction between people and their natural environment. This course investigates applying skills and analysing geographical issues. This is a suggested outline but open to discussion with the final class. An additional internal standard can be completed in negotiation with the class.

A knowledge of Geography is an entry point to many careers around the world, such as town and transport planning, chartered surveying, land and water management, environmental consultancy, development, tourism, conservation, demography, housing and social welfare.

Many Geographers choose careers in information technology, administration and management, the financial sector, and marketing. In all these areas, the skills portfolio, together with an interest in the world and people about you, are highly relevant. Geography can provide a good wide knowledge base and provides an arts balance for science students and science for arts students.

Standard	Vocational	Achievement/Unit Standard Title	Le	S	Σ
No.	Pathways		Level	Credits	Method
91426 Demonstrate understanding o		Demonstrate understanding of how	3	4	E
		interacting natural processes shape a New			
		Zealand geographic environment			
91427		Demonstrate understanding of how a cultural	3	4	E
		process shapes geographic environment(s)			
91429		Demonstrate understanding of a given	3	4	E
		environment(s) through selection and			
		application of geographic concepts and skills			
91430		Conduct geographic research with	3	5	1
		consultation			
91432		Analyse aspects of a geographic topic at a	3	3	I
		global scale			

Key: Required O Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



Entry Requirements – Open to all students, Level 2 Geography an advantage Costs – To be arranged. Usually \$0.

This course is based on the Sir George Seymour work booklets for the National Certificate of Tourism and Travel Introductory Skills Level 2. It is recommended that this course be completed over two years although the unit standards are stand alone for NCEA credit. Students can be entered for further standards if they complete the course outlined above. Students form Level 1 can enter this course by negotiation with the CAL.

Tourism offers exciting and diverse opportunities, both within the industry and in life skills. Courses will teach you technical skills for your chosen industry - along with general skills such as organisation, problem-solving, communication, leadership and team work. It's not all about air crew and tour guides - graduates in tourism can enjoy fun, international and rewarding careers in many areas such as hotels, events management, travel, sport, transportation and retail, amongst many others.

These industries are ever growing and study within them is becoming increasingly popular, with a huge number of different courses and qualifications now available.

Standard No.	Vocational Pathway	Achievement/Unit Standard Title	Level	Credits	Method
24728	$\bigcirc$	Demonstrate knowledge of work roles in tourism	2	3	I
24729	•	Demonstrate knowledge of world tourism destinations	2	4	I
24730	•	Demonstrate knowledge of the business of tourism	2	4	I
24731	•	Demonstrate knowledge of destination New Zealand	2	4	I
24732	•	Demonstrate knowledge of tourist characteristics and needs	2	3	I
<b>Key</b> : Requ	ired <b>O</b>	characteristics and needs       Recommended			

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			

**Entry Requirements** –Nil, this course is open to year 11 students by negotiation. **Costs** – Nil. However, a BYOD connected device (tablet/computer) is an advantage.

This course is based on the Sir George Seymour Unit Standards. It is a continuation of the National Certificate of Tourism and Travel Introductory Skills Level 2. But can stand alone as a level 3 NCEA subject. Please be aware that the ITO unit standard credits are not considered a university entrance subject.

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These industries are ever growing and study within them is becoming increasingly popular, with a huge number of different courses and qualifications now available.

Standard No.	Achievement/Unit Standard Title	Level	Credits	Method
3727	Demonstrate knowledge the Pacific Islands as a Tourism destination	3	5	I
18211	Demonstrate knowledge of Australia as a Tourism destination	3	5	I
24744	Describe and promote a New Zealand tourist destination	3	4	I

Further standards are then included by negotiation with the student once the core course is completed.



**Entry Requirements** – Level 2 Tourism an advantage, the ability to be self-motivated and work independently is vital.

**Costs** – A BYOD connected device (tablet/computer) is an advantage.

After a number of years we are please to be able to offer History as an NCEA subject to Kaikoura High School Students!

This course will need to be confirmed between the teacher and the students in the class at the start of the year but will offer between 18-24 credits. The possible Achievement standards are listed below.

Where possible, history encompasses events occurring in New Zealand and/or global events involving or influencing New Zealanders. History encourages students to look for points of connection and for similarities and differences, and to focus on research that transcends the boundaries of nation states.

Students will be encouraged to question accepted interpretations of the past and to consider contesting theories from different perspectives. Students need to see the relevance of the programme, choosing learning contexts that have significance to New Zealanders and, most immediately, to the students in the history class.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Credits	Method
91001		Carry out an investigation of an historical event, or place, of significance to New Zealanders	4	1
91002		Demonstrate understanding of an historical event, or place, of significance to New Zealanders	4	1
91003		Interpret sources of an historical event of significance to New Zealanders	4	E
91004		Demonstrate understanding of different perspectives of people in an historical event of significance to New Zealanders	4	1
91005		Describe the causes and consequences of an historical event	4	E
91006		Describe how a significant historical event affected New Zealand society	4	E

Required O

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Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			



**Entry Requirements** – History is an academic subject which there is an expectation for secondary reading within the subject, so students need to be motivated, engaged and organised to get the most from the course.

**Costs** – As this is a new course there may be costs incurred, these will be made clear to students once the format has been confirmed.

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Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Credits	Method		
91229		Carry out an inquiry of an historical event or place that is of significance to New Zealanders	4	I		
91230		Examine an historical event or place that is of significance to New Zealanders	5	I		
91231		Examine sources of an historical event that is of significance to New Zealanders	4	E		
91232	0	Interpret different perspectives of people in an historical event that is of significance to New Zealanders	5	I		
91233		Examine causes and consequences of a significant historical event	5	E		
91234		Examine how a significant historical event affected New Zealand society	5	E		
Key: Re	Key: Required Recommended					

Construction<br/>and<br/>InfrastructureManufacturing<br/>and<br/>TechnologySocial and<br/>Community<br/>ServicesService<br/>IndustriesPrimary<br/>IndustriesCreative<br/>IndustriesImage: Social and<br/>Community<br/>ServicesServicesImage: Service<br/>Image: ServiceImage: Service<br/>Image: Service

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Students will be encouraged to question accepted interpretations of the past and to consider contesting theories from different perspectives. Students need to see the relevance of the programme, choosing learning contexts that have significance to New Zealanders and, most immediately, to the students in the history class.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Credits	Method
91434		Research an historical event or place of significance to New Zealanders, using primary and secondary sources	5	I
91435		Analyse an historical event, or place, of significance to New Zealanders	5	I
91436		Analyse evidence relating to an historical event of significance to New Zealanders	4	E
91437		Analyse different perspectives of a contested event of significance to New Zealanders	5	I
91438		Analyse the causes and consequences of a significant historical event	6	E
91439		Analyse a significant historical trend and the force(s) that influenced it	6	E

Construction<br/>andManufacturing<br/>andSocial and<br/>CommunityService<br/>IndustriesPrimary<br/>IndustriesCreative<br/>IndustriesInfrastructureTechnologyServicesServicesPrimary<br/>IndustriesCreative<br/>Industries



**Entry Requirements** – History is an academic subject which there is an expectation for secondary reading within the subject, so students need to be motivated, engaged and organised to get the most from the course.

**Costs** – As this is a new course there may be costs incurred, these will be made clear to students once the format has been confirmed.

L3HIS:History - Level 3

This is a new course and all components will be negotiated between the staff member and the class. There will be between 18-24 credits offered over the year. There is an expectation for secondary reading within the subject, so students need to be motivated, engaged and organised.

#### What is classical studies about?

To understand ourselves, and our place in a bicultural society, we need to know about the societies that have laid the foundations for the world in which we live. Classical studies is the study of the people, places, and events of the classical world and how they influence the modern world. Classical studies is an interdisciplinary subject: students engage with literature, languages, art, history, science, technology, religion, and philosophy.

Students explore community, cultural identity, values, and perspectives and think critically about human behaviour and relationships to appreciate the civilisations of ancient Greece and Rome, understand the past and the present, and to imagine possible futures.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Credits	Method
91021		Demonstrate understanding of ideas and values of the classical world	4	E
91022		Demonstrate understanding of the significance of features of work(s) of art in the classical world	4	E
91023		Demonstrate understanding of an important historical figure in the classical world	4	E
91024		Demonstrate understanding of social relationships in the classical world	6	I
91025		Demonstrate understanding of links between aspects of the classical world and another culture	6	I
<b>Key</b> : <u>R</u> e	equired O R	ecommended		_
C	Construction Manufac	turing Social and Service Primary Cre	ative	

ICC y.									
	Construction	Manufacturing	Social and	Service	Primary	Creative			
	and	and	Community	Industries	Industries	Industries			
	Infrastructure	Technology	Services						



#### **Entry Requirements**

**Costs** – As this is a new course there may be costs incurred, these will be made clear to students once the format has been confirmed.

This is a new course and all components will be negotiated between the staff member and the class. There will be between 18-24 credits offered over the year. There is an expectation for secondary reading within the subject, so students need to be motivated, engaged and organised.

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Credits	Method
4	E
4	E
4	I
al 6	E
6	I
	6

Construction Manufacturing Social and Service Primary Creative and and Community Industries Industries Industries Infrastructure Technology Services

#### **Entry Requirements –**

Costs – As this is a new course there may be costs incurred, these will be made clear to students once the format has been confirmed.

#### What is classical studies about?

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Students explore community, cultural identity, values, and perspectives and think critically about human behaviour and relationships to appreciate the civilisations of ancient Greece and Rome, understand the past and the present, and to imagine possible futures.

Reg. No.	Vocational Pathway	Achievement/Unit Standard Title	Credits	Method
91394		Analyse ideas and values of the classical world	4	E
91395		Analyse the significance of a work(s) of art in the classical world	4	E
91396		Analyse the impact of a significant historical figure on the classical world	6	E
91397		Demonstrate understanding of significant ideology(ies) in the classical world	6	I
91398		Demonstrate understanding of the lasting influences of the classical world on other cultures across time	6	1
Key: Re	equired O R	ecommended		



#### **Entry Requirements**

**Costs** – As this is a new course there may be costs incurred, these will be made clear to students once the format has been confirmed.

This is designed to be a two-year course starting at year 11. Trade skills will be taught and unit standards at both level 1 and level 2 will be offered. However, Achievement standards will also be available for students who wish to complete them. Gateway and work placement may be an advantage. There is no start or stop point - just a progression through competenz standards as well as learning general skills associated with the trades. These standards may be completed in any order. Trades can offer apprenticeship level unit standards with the approval of industry.

On completion of this course students should have: Knowledge of Health and Safety and use of PPE gear.

- Knowledge of carpentry and building skills.
- Knowledge of materials including metal and know how to read both engineering and carpentry drawings, have basic automotive knowledge including systems and vehicle maintenance.
- Able to correctly use and maintain oxy acetylene gas welding plant and electric welding (Mig or Electrode).

Knowledge and experience to allow better pathway into work decision making regarding either within a trade or Tertiary training.

Standard No.	Vocational Pathway	Standard Title	Level	Credits	Method
22923		Basic engineering workshop skills	1	12	Ι
22924		Develop a simple product with the aid of engineering tools and machinery.	1	3	
22926	$\bigcirc$	Demonstrate knowledge of and apply safe working practices	1	2	I
4433		Simple measuring devices	2	8	Ι
2216	$\bigcirc$	Recognise and confirm furniture job specifications	1	6	1
		Level 2 standards will be available to both engineering, automotive and furniture students.			

Key: Required O Recom

Recommended

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			

# Technology

This course is for anyone that wants to pathway onto tertiary education, take on a trade, become an Architect or be up-skilled enough to express an idea or invention. Graphical skills and techniques will involve design and design refinement as well as presentation of answers in a way that involves drawing methods such as mechanical, freehand, rendering. Some CAD will be offered. Computer capability dependant.

#### On completion of this course students should be able to

Follow a design process to a problem solving solution

Use freehand drawing to complete and understand the design process. Use of rendering to enhance drawings, show shading and show hidden details with dimensions.

Complete geometrical shapes with the aid of drawing instruments Be able to mechanically draw for a builder or engineer to understand.

Standard No.	Vocational Pathway	Standard Title	Level	Credits	Method
91063		Produce freehand sketches that communicate design ideas	1	3	E.
91066		Use rendering techniques to communicate the form of design ideas	1	3	I
91065		Produce instrumental paraline drawings to communicate design ideas	2	3	E
91064		Produce instrumental, multi-view orthographic drawings that communicate technical features of design ideas	2	3	E.
91068		Undertake development of design ideas through graphics practice	1	6	I
91069		Promote an organised body of design work to an audience using visual communication techniques	1	4	Ι
Key: Requ	iired O	Recommended			

Construction	Manufacturing	Social and	Service	Primary	Creative
and	and	Community	Industries	Industries	Industries
Infrastructure	Technology	Services			

Entry Requirements – Open Costs – To be arranged early in Term 1 2019

# Technology

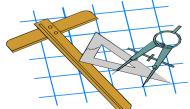
This course is for anyone that wants a pathway onto tertiary education, (preferably with some level 1 graphics.) Take on a trade, become an Architect or be up-skilled enough to express an idea or invention. Graphical skills and techniques will involve design and design refinement as well as presentation of answers in a way that involves drawing methods such as mechanical, freehand, rendering and CAD drawing as computer technology allows. **On completion of this course students should be able to:** 

- Follow a design process to a problem solving solution but at a more advanced level
- Use and be competent with Sketch up possibly another CAD system Draught-sight or Vector Works, as computer technology allows.
- Be able to mechanically draw for a builder or engineer to understand.
- Be able to sketch and render to show hidden details with dimensions.

Standard No.	Vocational Pathway	Standard Title	Level	Credits	Method
91337		Use visual communication techniques to generate design ideas	2	3	E
91338		Produce working drawings to communicate technical details of a design	2	4	E
91339		Produce instrumental perspective projection drawings to communicate design ideas	2	3	E
91341		Develop a spatial design through graphics practice	2	6	I
91342		Develop a product design through graphics practice	2	6	Ι
91343		Use visual communication techniques to compose a presentation of a design	2	4	Ι
Key: Requi	ired C Reco	ommended			

Construction and	Manufacturing and	Social and Community	,	
Infrastructure	Technology	Services		

Entry Requirements – Level 2 Graphics Costs – To be arranged early in Term 1 2019



# **Alternative Learning**

eLearning blends face-to-face style video conferencing tutorials with a mix of online and paper based learning and the luxury of small class sizes. Students will not only learn skills in their subject but will learn to manage their time, be responsible for their learning and take the initiative to ask for help when required. Students need to understand the style of learning required for success in elearning and should be highly self-motivated. Entry is by application to the dean.

## **Examples of subjects available:**

Japanese French Spanish Korean Mandarin Classical Studies (Level 2 &3) Music Performance Chemistry History (Level 1, 2 & 3) Media Studies (Level 2 & 3) Design and Visual Communication (Level 2 & 3) Art History Studies (Level 2 & 3) Psychology (Level 2)

Our eLearning courses are provided through NetNZ which is a company owned by 40 secondary and area schools in the Canterbury, Otago and Southland regions that engages in eLearning to better meet the needs of students and teachers. Further information is available on their website. www.netnz.org



**Entry Requirements** – Entry at the discretion of the eDean. Students wishing to take an e-Learning course need to apply in writing to the Dean outlining why they wish to take the course and how they see it fitting into their career pathway. Costs – course dependant. Te Kura courses are delivered in an online environment without face to face teaching, although student will have a Te Kura teacher who can be contacted by email or telephone.

In order to complete a Te Kura course successfuly, students must have good reading skills, be highly motivated as learning is totally self-directed and be able to work to deadlines. Te kura requirements are that a piece of assessed work is returned **every** calender month – including holidays, or students are removed from the class. This requires significant time management and students should carefully consider whether they are prepared for this style of learning.

#### Examples of Subjects available (\* requires prior learning) – for full list see Senior Dean

- Accounting (Level 2/3) Agriculture/Horticulture (Level 3)
- Art History (Level 2/3)
- Business Studies (Level 2/3)
- Chinese\*
- Classical Studies (Level 2/3)
- Design and Visual Communication (Level 2/3)
- Economics (Level 2/3)
- French\*
- German\*
- Home Economics (Level 2/3)
- Japanese\*
- Latin\* (Level 1 only)
- Legal Studies
- Media Studies
- Music \*
- Spanish\*
- Technology
- Te Reo (Level 3)

**Entry Requirements** – Admission by application only. Students may be offered this pathway if there are insufficient students to run a Kaikoura High School course

# As part of the Gateway programme that you have been accepted for you will also be expected to:

- Demonstrate knowledge and understanding of health and safety.
- Produce a Curriculum Vitae
- Investigate career options
- Establish job-seeking skills
- Become aware of community and support agencies
- Become familiar with employment rights and responsibilities
- Take part in Gateway work placement relevant to student's interests and aspirations, and integrated with student's study programme or vocational goals
- Complete all the required book work on time
- Complete Industry training based unit standards where applicable
- Complete other course requirements when on placement



Entry Requirements – Students need to apply for this course. It is designed for students who wish to move into the workforce. Deans will decide who enters this course. Costs – The cost is met by external funding.

# **Senior Qualifications REGULATIONS**

# **Assessment Opportunities**

Each course will publish a programme of assessment at the start of the year. Most internally offered standards will only be offered once but it is at the discretion of each Learning Area if there is an additional assessment opportunity. Reassessment is a further assessment opportunity with a new assessment task. This only applies to internally assessed standards.

# **Assessment Due Dates**

It is expected that all students will hand work in on the due date. Late work will not be accepted. If there is a valid reason for missing the deadline students will need to discuss this with the subject teacher and possibly the Curriculum Area Leader, to see if derived grades may apply.

# Resubmission

One further go – is available in some instances. It is allowed if a student has missed out on getting achieved by a small error. They rework the incorrect part of the assessment with no input form the teacher.

# **Derived Grades**

This applies to students who miss assessment due to medical, health or serious family problems. Doctor's certificates or equivalent are expected to support a student's application. Further information is available from the Principal's Nominee.

# Authenticity

All students must submit their own work for assessment purposes. A verification of authenticity sheet will be required to be signed by all students early in the year. This is kept on file for the year in case of any disputes over work for assessment.