



# **CROMWELL COLLEGE SENIOR COURSE SELECTION**



# **2018**

# Deserve Success

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## **WELCOME to the Cromwell College Senior School**

The aim of this booklet is to help you plan and select your programme for the next year and beyond. It contains information on all courses currently offered at Years 11, 12 and 13. There are two broad things to keep in mind

1. An NCEA qualification
2. Choosing the right subjects to enter a career pathway

### **PLEASE**

- read the information carefully, and keep this booklet for later reference
- check any possible career pathway requirements
- know the prerequisites (what must be studied beforehand)
- plan ahead (know what your course leads to)
- consult with the adults you live with, and with teachers in charge of subjects

### **COURSE PLANNING**

Advice for career and subject choices is available at school from Teachers in Charge of subjects, Deans and the Careers Adviser. Please ask more than one person for such guidance.

The following people can advise parents and students with overall course design for 2017 –

Mrs Borrie	Careers Adviser	kateborrie@cromwell.school.nz
Ms Sinclair	Assistant Principal	annesinclair@cromwell.school.nz
Mr Streeter	Assistant Principal	tonystreeter@cromwell.school.nz
Ms Inglis	Assistant Principal	kareninglis@cromwell.school.nz

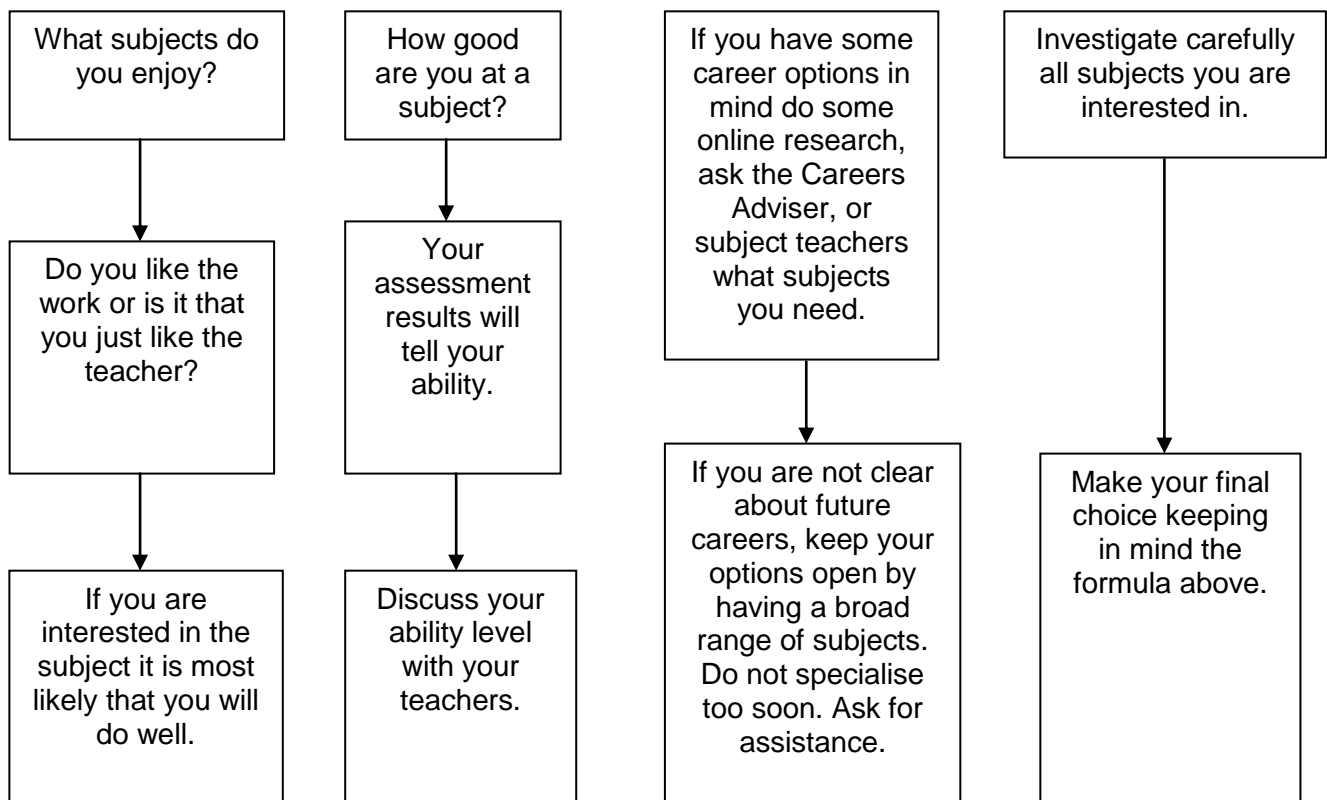
- Classes will be organised and timetabled to operate only **if there are sufficient numbers of students interested, and if staffing and resources are available.**
- There may be combined classes, classes through Net-NZ video conferencing or Te Kura (Correspondence School). Our goal is to have students taught here, wherever feasible.
- Some courses will involve combinations of Year 12 and Year 13 subjects.
- You may select subjects at a lower level if you want to improve earlier results, or if you need certain prerequisites, or feel that work at your new year level is too difficult.
- A number of courses have costs associated with them. These may be for materials 'consumed' by the student or for field trips. Note: Outdoor Leadership, Year 11 PE, Materials Technology, Home Economics and some distance learning and polytechnic courses have significant course costs. There may be part or full charges for students who wish to undertake these.
- Students will need to have demonstrated previous commitment to sound work habits before the school will allow them to do distance learning courses.

## CHOOSING COURSES

In today's working environment there are few certainties. Most people will change their jobs a number of times.

### MAKING GOOD COURSE CHOICES

<b>INTEREST</b>	<b>+</b>	<b>ABILITY</b>	<b>+</b>	<b>OCCUPATION</b>	<b>=</b>	<b>COURSE CHOICE</b>
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Remember your choices are your future. Keep in mind the formula at the top of the page.

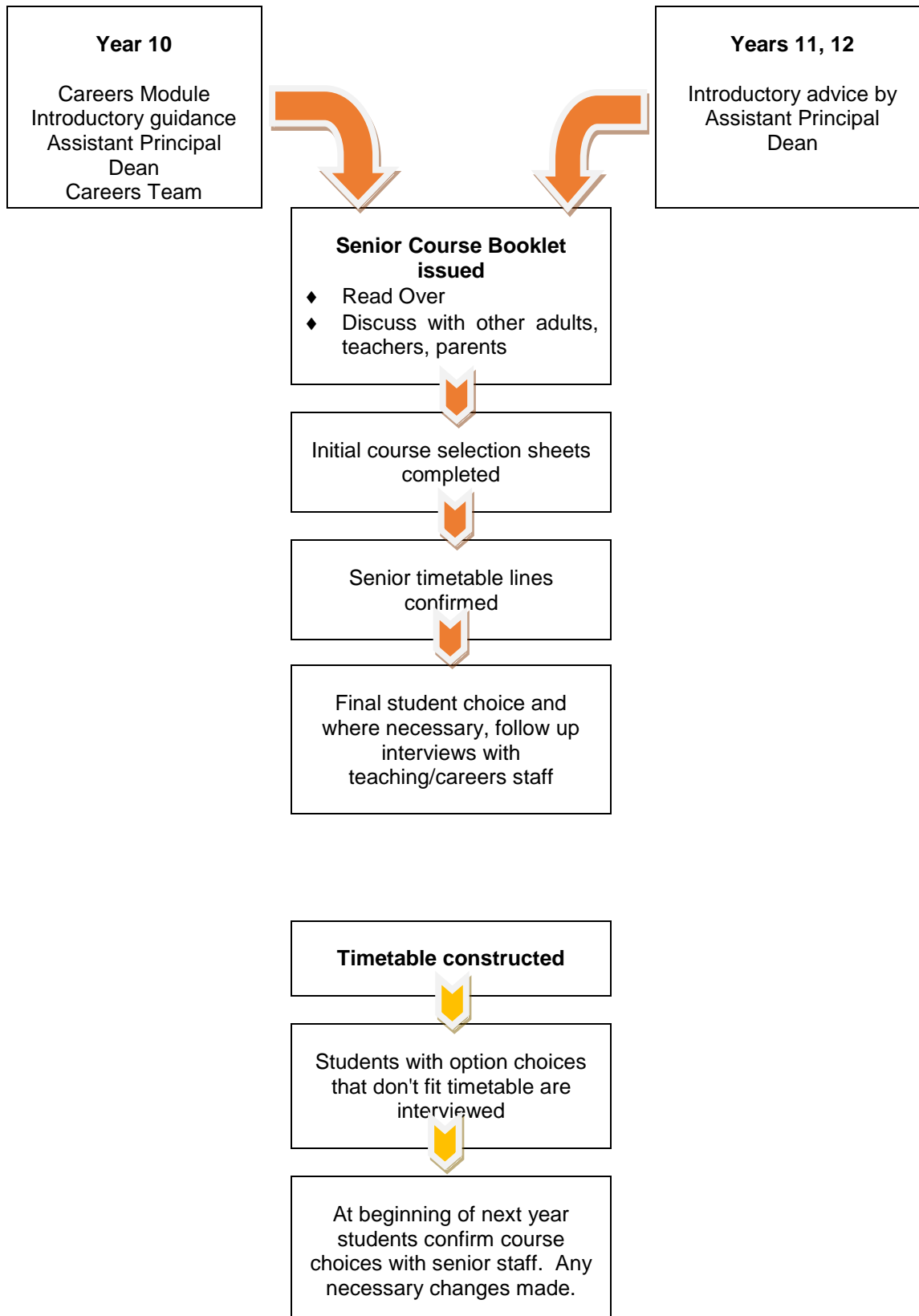
<b>INTEREST</b>	<b>+</b>	<b>ABILITY</b>	<b>+</b>	<b>OCCUPATION</b>	<b>=</b>	<b>COURSE CHOICE</b>
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Do not take a course just because your friends are taking it, or because you like the teacher.

## COURSE SELECTION plan

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Students in Year 10 will do a Careers Module. This will make students aware of subjects that are useful for chosen jobs. Students in Years 11 and 12 receive careers guidance. This will assist in making decisions.



# ASSESSMENT AT CROMWELL COLLEGE

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## **National Qualifications**

The courses and assessments at Cromwell College contribute towards the National Certificate in Educational Achievement (NCEA).

Generally speaking students in Year 11 will be studying towards Level One, students in Year 12 will be studying towards Level Two and students in Year 13 will be studying towards Level Three. Students may take longer than one year to gain a national certificate. There is no specified time limit for completing any qualification. For students and parents who want more detailed knowledge about NCEA and the NZQA (New Zealand Qualifications Authority) go to [www.nzqa.govt.nz](http://www.nzqa.govt.nz).

There are two categories of assessments in NCEA - Unit Standards & Achievement Standards.

### **Unit Standards**

Generally 'vocation' focussed. Are always given as school-based or internal assessments, there are no end-of-year examinations.

A unit standard is an accepted standard of achievement for a particular skill. You can either achieve or not achieve a Unit Standard and you generally can have another attempt at completing the assessment. Each standard successfully passed gives a number of credits.

### **Achievement Standards**

Most traditional school subjects. Can be school-based assessments or they may be assessed through an end-of-year national examination.

There are four results available for any achievement standard: Not Achieved, Achieved, Merit, Excellence. Each standard successfully passed gives a number of credits.

## **Level 1 National Certificate in Educational Achievement (NCEA)**

To gain this qualification you need:

- a total of 80 credits
- at least 10 credits in Literacy and at least 10 credits in Numeracy

Be aware that achieving 80 credits at Level 1 (with literacy and numeracy) does not provide automatic entry to all Level 2 courses as entry criteria may include subject specific credits.

## **Level 2 National Certificate in Educational Achievement (NCEA)**

To gain this qualification you need:

- a total of 80 credits (must include Level 1 literacy and numeracy)
- at least 60 of these credits from Level 2 or above

## **Level 3 National Certificate in Educational Achievement (NCEA)**

To gain this qualification you need:

- a total of 80 credits
- at least 60 of these credits from Level 3

## **Endorsement**

At each NCEA Level students can gain a **Certificate Endorsement** with Merit or Excellence.

- 50 or more excellence credits is an Excellence endorsement
- 50 or more merit (or above) credits is a Merit Endorsement

We expect many of our students to aim for these endorsements.

## Course (subject) endorsements

Recognises students may have a strength in an individual subject.

- 14 or more Excellence credits in a subject is an excellence subject endorsement
- 14 or more Merit / Excellence credits in a subject is a merit subject endorsement
- at least 3 of the 14 credits must come from externally assessed standards (the exceptions are Physical Education and Outdoor Leadership where they can be all internal).
- The counting credits must be gained in a single school year.

## University Entrance

You will be qualified for entrance to a university in New Zealand if you have obtained:

- ◆ NCEA Level 3
- ◆ At least 14 credits in each of three Level 3 University approved subjects (these subjects are marked UE in the course table on the next page)
- ◆ Literacy - 10 credits at Level 2 or higher, 5 credits in reading and 5 credits in writing. The same standard can't be used for both reading and writing
- ◆ Numeracy - 10 numeracy credits at Level 1 or higher from specified achievement standards or three specific unit standards.

**However**, just gaining University Entrance is no guarantee of being accepted into a University course because of limited places. Students do need to ensure that their Yr 12 marks and Yr 13 marks **are the best they can do** – this would mean noticeable numbers of merits and excellences. You should check the relevant Polytechnic and University prospectuses for the academic requirements for any course you are thinking about.

## New Zealand Scholarship

An extra examination designed to extend the best secondary students and enable top scholars to be identified and acknowledged.

The content assessed for Scholarship is the same as that covered for Level 3 Achievement Standards. The aim is to assess a student's ability to synthesise and integrate concepts - to apply higher level thinking based on in-school and independent learning.

Scholarship is not an additional qualification and it does not generate credits.

Scholarships can be awarded in each subject. It is an award of excellence and has monetary value.

If you are interested in attempting scholarship talk to your subject teacher.

## Credit accumulation

For all NCEA certificates credits can be accumulated over more than one year. Where a Unit Standard and an Achievement Standard assess the same learning outcome they cannot be counted twice.

## LEVEL 2 VOCATIONAL PATHWAYS AWARD

Vocational Pathways are about improving the transition from school to work. They create clear pathways from school to work and study.

Achievement and Unit Standards have been identified that will prepare students for employment and ongoing education in one of six key 'industries'

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

Using the vocational pathways approach you can

- find out the standards, skills and competencies that are valued by employers in particular sectors
- find out the job or career options that are available in each sector
- identify current and future programmes of study that support your career pathways
- demonstrate a vocational profile to employers and tertiary providers.

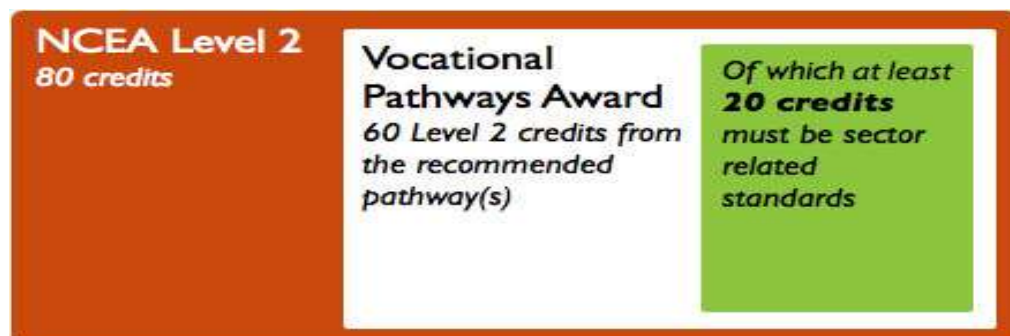
To receive a Vocational Pathways Award, students must

gain NCEA Level 2 - 60 credits from Level 2 and 20 credits from any other level; 80 credits in total. 10 of these credits must satisfy the literacy requirements, and 10 of these credits must satisfy the numeracy requirements.

and a minimum of 20 of the Level 2 credits must be from **Sector-Related** standards, Sector related standards are more specific to the skills and experiences needed in the particular industry setting. They are usually unit standards

The remaining credits come from **Recommended** standards to make up 60 pathway credits in total. Recommended standards represent useful foundation learning for each pathway. Many standards assist toward more than one pathway. They are generally achievement standards. A subject's contribution to these standards are shown in the graphs on the subject page.

The following diagram shows this relationship:



More information can be found at [www.youthguarantee.net.nz](http://www.youthguarantee.net.nz)



## Career Pathways Sectors

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### Construction and Infrastructure

You'll be part of a well-run team that's committed to getting the job done safely and well, to meet the client's specifications. You'll work indoors and outdoors. You'll move around from site to site, working with lots of different tradespeople, contractors and clients. You'll have a variety of different tasks, and you'll use a lot of different tools and machinery. Work hours will vary. The work is physical and active and you will learn by doing.

**Types of jobs for this Vocational Pathway include:**

Builder, Civil Engineer, Earthworks, Forklift Operator, Interior Designer, Project Manager, Surveyor, Welder .... and more.

### Creative Industries

You may be part of a team or work independently to apply your skills and imagination to help people see the world differently. You'll come up with new ideas or variations on existing ones. It can call for big picture thinking as well as attention to detail. You will have to be flexible, adaptable, resilient. Work hours will vary. You can be part of making a real contribution to the community.

**Types of jobs for this Vocational Pathway include:**

Artist, Graphic Designer, Screen Printer, Actor, Art Director, Technical Manager, Stage/Set Designer, Creative Director .... and more

### Primary Industries

You may be part of a team or work individually. You may work indoors or outdoors. There is a huge range of jobs in this sector. You could work on the land, be in a processing plant turning primary produce into value added goods or far from the farm organising shipping or developing new products or markets. You'll be contributing to an important and sustainable sector of New Zealand's economy.

**Types of jobs for this Vocational Pathway include:**

Orchardist, Biochemist, Farm Worker, Fishery Office, Hunter/Trapper, Production Manager, Vet, Winemaker, Dairy Factory Worker, Food Technologist .... and more

### Service Industries

Most jobs in this sector involve working with others. Good communication and presentation skills are important. For some jobs work hours can vary hugely. You'll get satisfaction from giving good service to clients. Skills from this sector assist you to work and travel the world. In many of these jobs you are the brand, dealing directly with people.

**Types of jobs for this Vocational Pathway include:**

Accountant, Army Soldier, Chef, Events Manager, Flight Attendant, Hairdresser, Journalist, Sales Rep, Ski Instructor .... and more

### Social and Community Services

You'll be part of a wider team caring for people and keeping them safe. It can be exciting, personally rewarding, physically and emotionally demanding. You will be dealing with people from all ages and walks of life and there will be times where you'll find yourself in fast changing challenging situations. This sector is a big employer. Your skills can be highly transferable in New Zealand and overseas.

**Types of jobs for this Vocational Pathway include:**

Health Services Manager, Ambulance Officer, Firefighter, Lab Technician, Midwife, Police Officer, Teacher ... and more

## **RECORD OF ACHIEVEMENT**

All credits you gain, whether from school, work place training or polytechnic will go on your Record of Achievement. You can access your Record of Achievement (once registered) with your NSN number. It will show the qualifications you have so far gained. It will also have your Vocational Profile that shows how the credits being gained in NCEA are working towards the vocational pathway awards.

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## SUBJECTS OFFERED AT CROMWELL COLLEGE

Year 10	Year 11	Year 12	Year 13
English	Y11 Alternative English Y11 English	Work Literacy Y12 English Y12 ESOL Y12 Languages*	Y13 English^ Y13 ESOL Y13 Languages * ^
Languages	Y11 Languages*		
Mathematics	Y11 Numeracy Y11 Mathematics	Y12 Internal Mathematics Y12 Mathematics	Y13 Statistics ^ Y13 Calculus^
Science	Y11 Alternative Science Y11 Science	Y12 Biology Y12 Chemistry Y12 Physics	Y13 Biology ^ Y13 Chemistry ^ Y13 Physics ^
Social Studies	Y11 History Y11 Geography	Y12 History Y12 Geography Y12 Tourism	Y13 History ^ Y12 Geography ^ Y13 Tourism
Economics	Y11 Business Economics Y11 Accounting	Y12 Economics Y12 Accounting	Y13 Economics ^ Y13 Accounting ^
Physical Education	Y11 Physical Education Y11 Practical PE	Y12 Physical Education  Y12 Outdoor Leadership	Y13 Physical Education ^  Y13 Outdoor Leadership ^
Year 10 DGT (computing)	Y11 Digital Technologies	Y12 Digital Technologies	Year 13 Digital Technologies ^
Year 10 Graphics (DVC)	Y11 DVC	Y12 DVC	Y13 DVC ^
Year 10 Materials Technology	Y11 Materials Technology	Y12 Materials Technology	Y13 Materials Technology
Year 10 Food Technology	Y11 Home Economics	Y12 Home Economics	Y13 Home Economics^
Y10 Music & Performance	Y11 Music	Y12 Music	Y13 Music^
Y10 Art	Y11 Visual Art	Y12 Visual Art	Y13 Visual Art Painting ^ Y13 Visual Art Photography ^ Y13 Visual Art Design ^ Y13 Visual Art Sculpture ^
	Pathways	Gateway Trades Academy#	Gateway Trades Academy#

KEY:     \* By Distance     ^ University Entrance Subject     #through Otago Polytechnic

## INFORMATION FOR NEXT YEAR'S YEAR 11 STUDENTS

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All students must study **SIX** courses, including English, Mathematics and Science.

For students who would have difficulty in handling six traditionally academic courses in one year, there are courses available in Alternative Science, Numeracy Mathematics, Literacy and Pathways that go at a slower pace.

Students are encouraged to carry on with at least one of their current Year 10 options, but they must be aware of the subjects available to them for the first time and where courses lead after Year 11.

All courses have internally assessed work that count towards the final NCEA results. Nearly all courses have internal (Cromwell College) examinations/ assessments in September.

Make sure you are aware of your course choice towards your identified Vocational Pathway/s; however don't narrow yourself down too much by taking lots of the same sort of course.

Students, when choosing a course, will be required to do the complete course, attempt all the Achievement and Unit Standards in the course, and sit the school exams.

Students are expected to enter and sit the examinations in as many NCEA courses as they, their parents and the school, consider suitable.

Please complete the "Course Selection" form and return to your Form Teacher or the Office.

## INFORMATION FOR NEXT YEAR'S YEAR 12 STUDENTS

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All students must study **SIX** courses this must include English. In a limited number of cases students will be guided in to a Work Literacy course rather than Level 2 English.

Entry into many Year 12 courses is granted on a student's success at NCEA Level 1 and meeting appropriate prerequisites. Students may be guided into following a course combining both Year 11 and Year 12 courses, if they wish to pick up a new course, or to improve NCEA qualifications. However, no one is permitted to take any one "subject" at two levels.

**The Government sees NCEA Level 2 as the minimum entry qualification for successful contribution to the skilled economy.** It leads to entry to many Polytechnic courses and into Year 13, and hence qualifying for entry into University.

Taking a course through a distance provider is a possibility. Students who have demonstrated a sound ability to complete work independently will be the only ones considered for a distance learning course.

Please complete the "Course Selection" form and return to your Form Teacher or the Office

## INFORMATION FOR NEXT YEAR'S YEAR 13 STUDENTS

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The benefits of a Year 13 year to both students and this school are considerable, especially in the development of leadership, initiative and academic knowledge. Students are expected to study **FIVE** or **SIX** courses in this final school year. Some of these could be at lower Year levels. There is an allocation of unsupervised study time and other privileges and obligations at this level.

Taking a course through a distance provider is a possibility. Students who have demonstrated a sound ability to complete work independently will be the only ones considered for a distance learning course.

Please complete the "Course Selection" form and return to your Form Teacher or the Office.

## INFORMATION FOR ADULT STUDENTS (FULL OR PART TIME)

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At Cromwell College we welcome adult students (full or part time) to participate in all classes.

- We provide an opportunity for further education to meet future needs or personal goals, or to further a career option.
- We recognise that second chance education is a right of all New Zealanders. We will assist with appropriate course guidance, adult student networking, support and suitable opportunities to meet with adult students.
- Adult students and part time students are expected to abide by the school rules and code of conduct at all times.

## HOW TO READ THE SUBJECT INFORMATION

**Prerequisites** are what you must have done before-hand to get into that course.

**Corequisites** are something that you must do at the same time as this supports the learning in the course.

**Vocational Pathways** graph show the contribution of the standards in the course to industry pathways. These are based on the 2017 course (there should not be much change in the 2018 course).

The **assessment** table gives a breakdown of the number and type of credits. Information towards NCEA literacy and numeracy and University Entrance requirements are also given.

**Course costs** These are likely costs. By choosing the subject you are acknowledging the costs incurred and accept that payment must be made for the activities to occur or course consumables to be supplied.



# ACCOUNTING

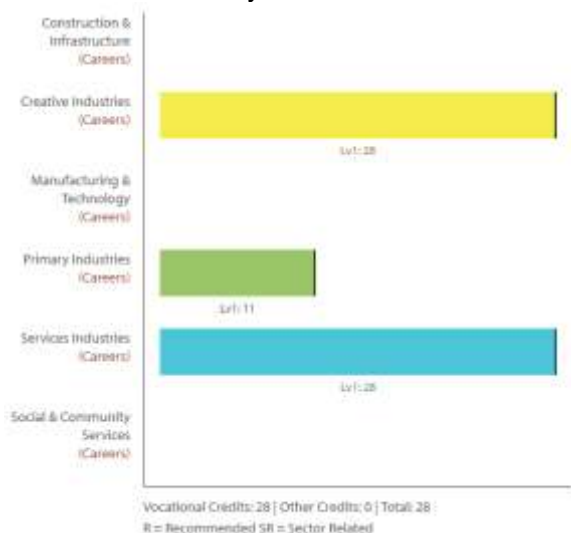
## Year 11 (Level One) Accounting

### **Introduction:**

To provide students with skills that will prepare them for personal financial management and for accounting procedures encountered in everyday life as well as basic knowledge for business and club applications.

**Pre-requisite:** None

### Vocational Pathways



### **Course Outline**

Demonstrate an understanding of the conceptual basis of Accounting

Processing financial information and analysing transactions

Prepare financial statements for a sole proprietor

Analyse & interpret information for a sole proprietor

Assessment - 21 Achievement Standard credits at Level 1	
Internal credits: 9	External credits: 12
Level 1 Literacy: 18	Level 1 Numeracy: nil

### **Indicative Costs**

Workbooks \$20

### **Future areas of interest and study**

Years 12 & 13 Accounting, University or Polytechnic study in Accounting/Business Studies/Commerce.

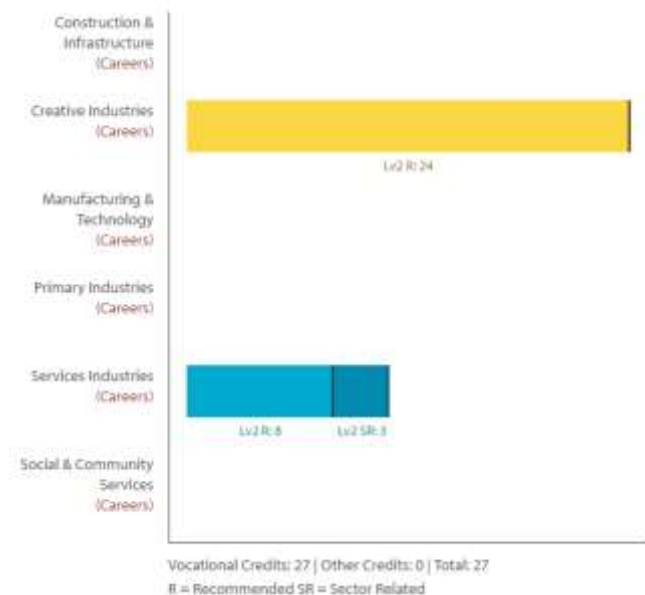
## Year 12 (Level Two) Accounting

### Introduction

To examine, understand & apply the assumptions on which accounting is based. Develop knowledge and understanding of the subsystems & controls to prevent fraud. Use computer accounting packages to process accounting information. Prepare financial reports that meet the needs of users and legal requirements.

**Prerequisite:** Level 1 Accounting would be VERY useful.

### Vocational Pathways



### Course Outline

An in depth look at the accounting process concentrating mainly on the sole trader. Topics covered include inventories, business ownership, manufacturing, correction of errors, accounts receivable management, balance day adjustments, topical accounting issues.

Assessment - 24 Achievement Standard credits at Level 2	
Internal credits: 11	External credits: 13
Level 1 Literacy: 18	Level 1 Numeracy: 13
UE Reading: nil	UE Writing: nil

### Indicative Costs

Workbooks \$20

### Future areas of interest and study

Years 12 & 13 Accounting, University or Polytechnic study in Accounting/Business Studies/Commerce. A commerce degree can take you anywhere.

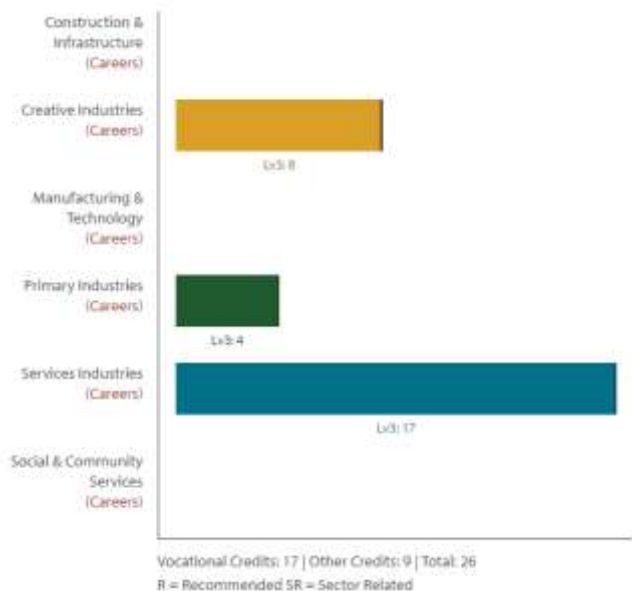
## Year 13 (Level Three) Accounting

### Introduction:

To promote knowledge & understanding of accounting as a financial language for partnerships & companies that may be service or manufacturing businesses.

**Pre-requisite:** Level 2 Accounting would be VERY useful.

### Vocational Pathways



### Course Outline

Topics include accounting for business partnerships, companies and manufacturers, cash flow statements, cash budgets, cost and management accounting, system analysis and accounting theory.

Assessment - 22 Achievement Standard credits at Level 3		
Internal credits: 9	External credits: 13	
Level 1 Literacy:	Level 1 Numeracy:	
UE Counting subject: YES	UE Reading 10	UE Writing: 5

### Indicative Costs

Workbooks \$20

### Future areas of interest and study

University or Polytechnic study in Accounting/ Business Studies/ Commerce. Careers include management, banking, insurance, valuation, treasury, education, statistics, agricultural servicing, journalism, foreign exchange & money markets.

<b>FOR FURTHER INFORMATION SEE:</b>	<b>Ms Kane</b>
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# BIOLOGY

## Year 12 (Level Two) Biology

### Prerequisites

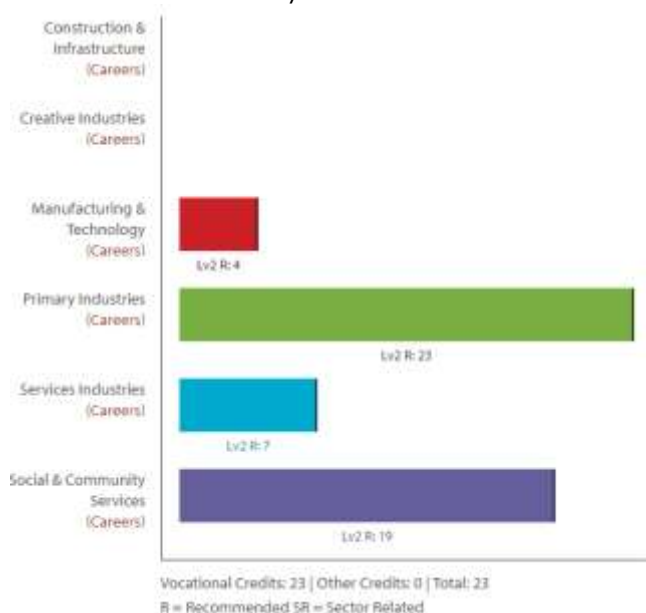
A minimum of 14 Level 1 Science credits, including at least an **achieved** grade in the following Level 1 Achievement Standards –

Chemistry 1.1 Carry out a practical chemistry investigation with direction

Science 1.9 Demonstrate understanding of biological ideas relating to genetic variation.

Students not achieving these criteria will need special dispensation from the HoF to attempt this course on a provisional basis.

### Vocational Pathways



### Course Outline

- Plant and animal structure and function.
- Cell structure and function.
- Genetics and evolution
- ♦ Ecology

### Assessment

Assessment - 23 Achievement Standard credits at Level 2	
Internal credits: 11	External credits: 12
Level 1 Literacy:	Level 1 Numeracy:
UE Reading: nil	UE Writing: nil

### Costs

Workbook \$22. An overnight field trip is a compulsory part of this course, cost around \$55.

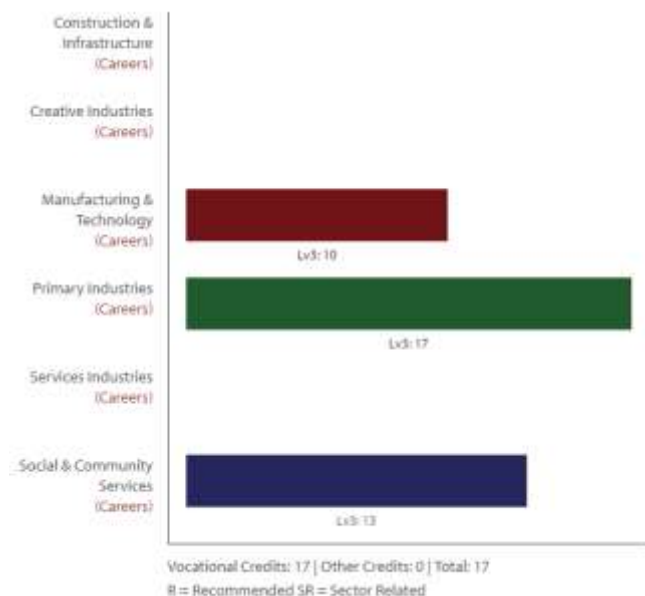
### Where does it lead?

Level 3 Biology. Laboratory Worker, Radiology Technician, Fisheries Officer, Farm Manager, Ambulance Officer, Dental Technician, Wool Classer, Hospital Aide, Dairy Inspector, Pathology Assistant, Pulmonary Technician, Pest Controller, Orchard Manager, Horticulturist etc.

## Year 13 (Level Three) Biology

### Prerequisites

To achieve entry into this course, students must obtain a minimum of 14, Level 2 Biology credits, including the genetics achievement standard. Some Level 2 English credits are strongly recommended. Biology at this level requires sound literacy skills.



### Course Outline

Course content areas on which assessment will be based:

- ◆ Animal behaviour and plant responses in relation to biotic and abiotic environmental factors.
- ◆ Genetics and evolution.
- ◆ Contemporary techniques in biotechnology.
- ◆ Contemporary socio-scientific issues
- ◆ Homeostasis
- ◆ Carrying out an investigation

Assessment - 18 Achievement Standard credits at Level 3		
Internal credits: 9	External credits: 9	
Level 1 Literacy:	Level 1 Numeracy:	
UE Counting subject: YES	UE Reading 18	UE Writing: 12

### Costs

A course revision book is compulsory for this course at a cost of approximately \$22, as well as the possibility of a field trip.

### Where does it lead?

A good qualification in Biology can lead to diverse educational courses at polytechnic or university. Careers such as Biological Scientist, Forensic Scientist, Dentist, Zoologist, Physiotherapist, Dietician, Health Nurse, Marine Biologist, Optometrist, Pharmacist, Veterinarian, Doctor, Psychologist, Agricultural Scientist, Occupational Therapist, Audiologist, Science Teacher and Water Management are just a few options.

FOR FURTHER INFORMATION SEE:	Ms Dixon
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# CHEMISTRY

## Year 12 (Level Two) Chemistry

### Prerequisites

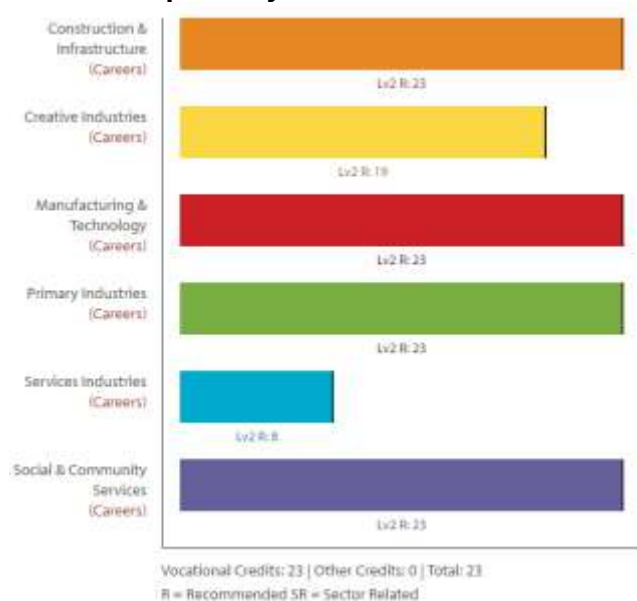
A minimum of 14 Level 1 Science credits, including at least an **achieved** grade in

Science 1.5	Demonstrate understanding of chemical ideas (acids and bases)
Chemistry 1.1	Carry out a practical chemistry investigation with direction.
Mathematics	at least four credits from Number Achievement Standards at least four credits from Algebra Achievement Standards

It is preferable that students also take Year 12 Mathematics.

Students not achieving these criteria will need special dispensation from the HoF.

### Vocational pathways



### Course Outline

The main aims of the course are:

- ♦ to investigate and develop an understanding of the ways materials and chemical processes interact with people and the environment.
- ♦ to carry out a range of practical investigations and use this and other information to explore chemical behaviour.
- ♦ to understand important concepts in chemistry and major patterns of chemical behaviour.

The main topics are:

- ♦ Qualitative Chemistry
- ♦ Quantitative Chemistry
- ♦ Atomic Structure and Bonding
- ♦ Chemical Reactions
- ♦ Redox Chemistry

Assessment - 19 Achievement Standard credits at Level 2	
Internal credits: 10	External credits: 9
Level 1 Literacy: 13	Level 1 Numeracy: 4
UE Reading: nil	UE Writing: nil

### Costs

Approximately \$20, students will be notified at the start of the year. Please do not pay until the price is finalised.

### Where does it lead?

At school – Level 3 NCEA Chemistry.

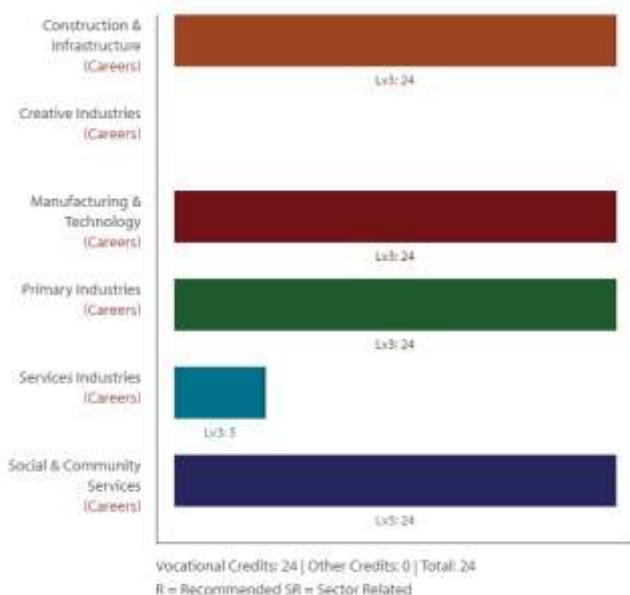
Out of school - Chemistry is a basic science and a knowledge of chemistry is necessary for any science based career. Chemistry is often studied as a subject in its own right, but also has wide application in medicine, nursing, physical education, dentistry, horticulture, agriculture, veterinary science, food science, all types of engineering, pharmacy and many technical services. It is thus essential for a wide range of careers.

## Year 13 (Level Three) Chemistry

### Prerequisites

14 credits or more from Level 2 Chemistry and Mathematics credits in Level 2 Algebra, or at HoF discretion.

### Vocational pathways



### Course Outline

- ◆ Understanding of spectroscopic data
- ◆ Understanding of chemical processes
- ◆ Understanding of oxidation-reduction processes
- ◆ Thermo chemistry and properties of particles
- ◆ Organic chemistry
- ◆ Equilibrium in aqueous systems

Assessment - 24 Achievement Standard credits at Level 3		
Internal credits: 9	External credits: 15	
Level 1 Literacy:	Level 1 Numeracy:	
UE Counting subject: YES	UE Reading 3	UE Writing: 3

### Costs

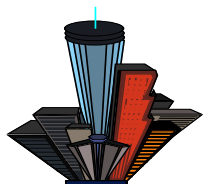
Approximately \$20, students will be notified at the start of the year. Please do not pay until the price is finalised.

### Where does it lead?

The course is intended for all students interested in Chemistry, including those who will proceed to tertiary levels. Chemistry is often studied as a subject in its own right, but also has wide application in medicine, nursing, physical education, dentistry, horticulture, agriculture, veterinary science, food science, all types of engineering, pharmacy, forestry, marine science, paint, plastics and drug industries, and many technical services. It is thus essential for a wide range of careers.

FOR FURTHER INFORMATION SEE:

Mr Philip



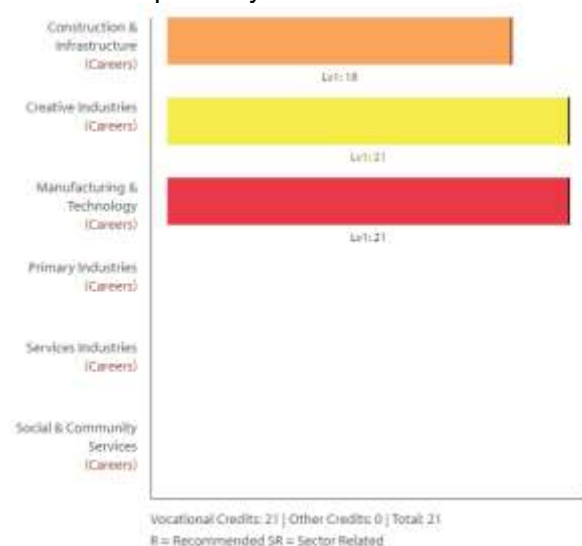
## DESIGN and VISUAL COMMUNICATION

### Year 11 (Level One) Design and Visual Communication (DVC)

#### Prerequisites

Completion of the Year 10 course in Graphics. There may be exceptions to this, and a student must discuss their eligibility with the Head of Faculty.

#### Vocational pathways



#### Course Outline

The content promotes a sound basis for Years 12 and 13 Design and Visual Communication. The course work is a mixture of instruction and problem solving using design briefs. Students develop their skills in solving design problems, freehand sketching, presentation drawings (both formal and rendered); understanding and using correct design language, describing design elements, function and aesthetics.

Assessment - 18- 21 Achievement Standard credits at Level 1	
Internal credits: 9-12	External credits: 9
Level 1 Literacy:	Level 1 Numeracy: 6

### Where does it lead?

Graphics will lead to tertiary courses at Universities, Polytechnics and for trades related courses which require plans or drawings to be used or made, eg. all timber and metal trades, telecommunications and electronics, building and allied trades, architecture and interior and industrial design work, farming and the Armed Services.

### Costs

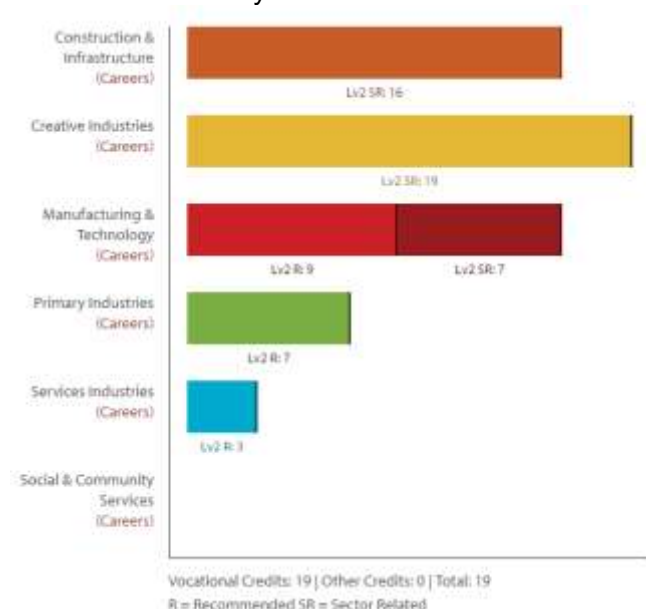
A course fee of \$20.00 is payable for materials used and \$35 for a DVC pack if not purchased previously.

## Year 12 (Level Two) Design and Visual Communication (DVC)

### Prerequisites

This course is a continuation of DVC Years 9 to 11. Students must have entered in the Level One external assessments of the Year 11 Graphics or Visual Art course. There may be exceptions to this, and a student must discuss their eligibility with the Head of Faculty.

### Vocational Pathways



### Course Outline

This course of study aims to develop a more mature and independent approach to the practice of design and drawing. The focus of the course is primarily on the application of skills and knowledge using a variety of modes and media, either manually or digitally produced as appropriate. Topics include exploration of a design era or movement, spatial design (architectural, interior, environmental) product design (fashion, packaging, media, consumer, technological objects) and visual communication of designs. This course also assists students to predict the influences and impacts of their designs on the world they will grow up in.

Assessment - 18 Achievement Standard credits at Level 2	
Internal credits: 9	External credits: 9
Level 1 Literacy: 6	Level 1 Numeracy:
UE Reading: nil	UE Writing: nil

### Where does it lead?

The skills learnt should be of assistance in many employment fields, including draughting, architecture, design based careers and all industries. The practical problem solving skills learnt in this course are useful in a wide range of areas.

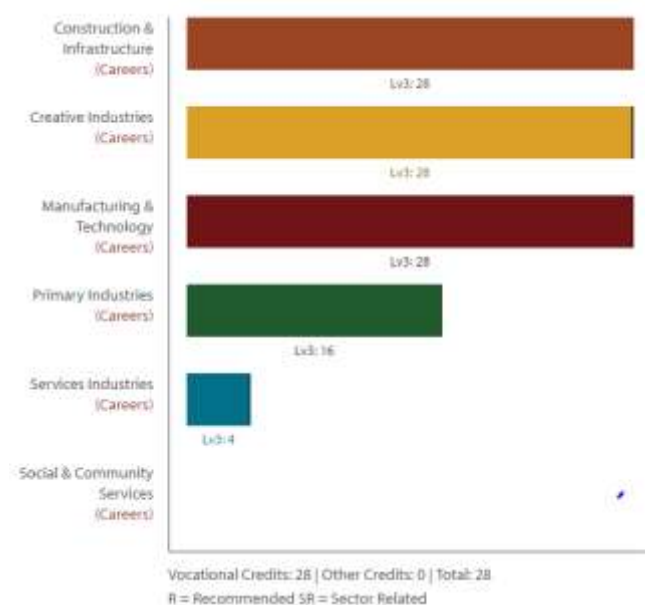
### Course Costs

A course fee of \$20.00 is payable for materials used and \$35 for a DVC pack if not purchased previously.

## Year 13 (Level Three) Design and Visual Communication (DVC)

### Prerequisites

Students must have completed work for external assessment at NCEA Level 2, DVC course.



### Course Outline

This is a design and problem solving course intended to provide students with opportunities to develop and present design ideas within a wide range of contexts. These ideas are informed by research and explored using relevant graphics practice. A variety of 2D and 3D modes (conventional and digital sketching and drawing methods, virtual mock-ups and models, animations and prototypes etc.) and media (digital, marker pens etc.) are used to communicate and present design ideas and conceptual outcomes. Students are given the opportunity to use presentation techniques that draw on standard principles of composition, refine the aesthetic and functional qualities of a spatial or product design and incorporate wider environmental and human factors in the development, communication and ongoing evaluation of ideas into practical solutions. The course is designed to be individualised to capture the interests and passion of the students.

Assessment - 18 Achievement Standard credits at Level 3		
Internal credits: 12	External credits: 6	
UE Counting subject: Yes	UE Reading: nil	UE Writing: nil

### Where does it lead?

The course is a preferred subject for architecture, technology and all design degrees.

### Course Costs

A course fee of \$20.00 for materials used and \$35 for a DVC pack if not purchased previously.

FOR FURTHER INFORMATION SEE:

Mr Wing



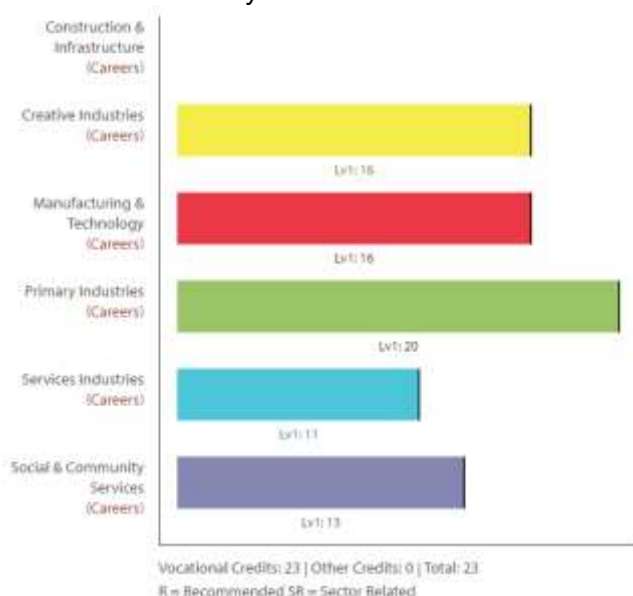
# DIGITAL TECHNOLOGIES - COMPUTING

## Year 11 (Level One) Digital Technologies

### Prerequisites

Any student keen to go into computer programming and digital media alongside information management.

### Vocational Pathways



### Course Outline

A subject that allows a student to have a hands-on approach to learning by developing skills and knowledge in an ever growing and expanding field with lots of career opportunities.

The skills developed in this subject encourage students to develop up-to-date skills in a wide range of digital technologies including digital Information (includes but not restricted to: word processing, excel, powerpoint and desktop publishing), computer programming and digital media using cameras with appropriate media tools like JASC Paint Shop Pro and Photoshop. Practical design skills will develop a student's awareness in making the printed word and images to be a powerful and persuasive tool as they prepare themselves to live in a digital world.

Assessment - 14 Achievement Standard credits and 5 Unit Standard credits at Level 1	
Internal credits: 16	External credits: 3
Level 1 Literacy: 3	Level 1 Numeracy: nil

### Costs

Numerous parts of this course require colour printing so there is a \$10 charge.

FOR FURTHER INFORMATION SEE:	Mrs Wing
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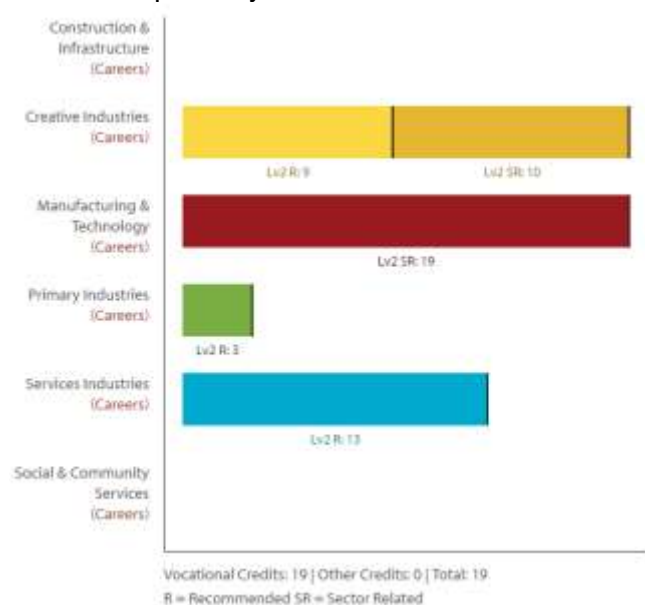
## Year 12 (Level Two) Digital Technologies - Computing

### Introduction

The course is designed to allow students to advance their computing skills over a range of fields.

**Prerequisites** – None. Year 11 Digital Technologies an advantage

Vocational pathways



### Course Outline

The structure of the course will be determined by the needs of the students wishing to take the course and the skills of the teaching staff.

Areas of Digital Technology that may be covered within the course:

- understanding computing systems and how to manage them
- demonstrating advanced concepts of digital media
- linking of digital information with data (examples could be databases, spread sheets, websites)

Assessment - 19 Achievement Standard credits at Level 2, possibly a Unit Standard at Level 2	
Internal credits: 16	External credits: 3
Level 1 Literacy: 3	Level 1 Numeracy: nil
UE Reading: nil	UE Writing: nil

### Where does it lead?

Computing solutions is a highly creative activity that drives innovation in many fields including science, engineering, business, advertising, education and entertainment.

Students can continue on to Level 3 then specialise in an area of interest at University, Polytechnic or apply their skills in their chosen vocation.

### Course cost

No charge, most resources are accessed digitally.

FOR FURTHER INFORMATION SEE:	Ms Geneblaza
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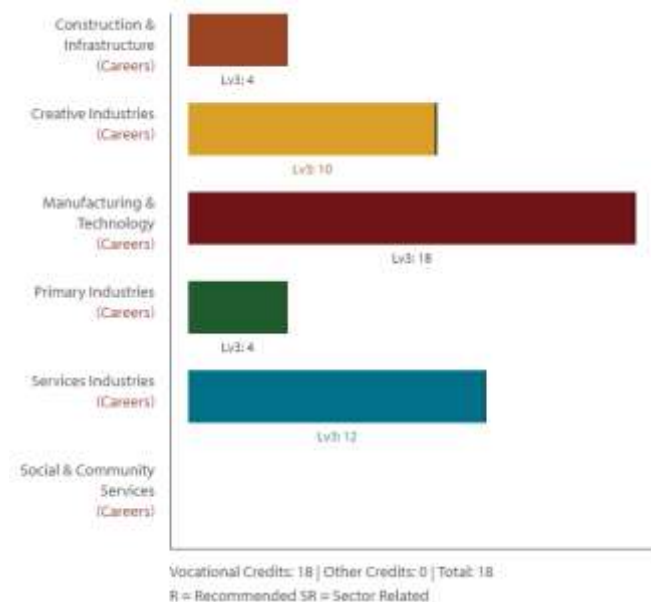
## Year 13 (Level Three) Digital Technologies - Computing

### Introduction

The course is designed to allow students to advance their computing skills over a range of fields.

**Prerequisites** – Level 2 Digital Technologies a real advantage.

### Vocational Pathways



### Course Outline

The structure of the course will be determined by the needs of the students wishing to take the course and the skills of the teaching staff.

### Course content – areas that may be covered are:

- Understand brief development
- Develop and implement a relational data base
- Develop a game prototype through advanced programming  
(4 credits to be decided based upon student interest)

Assessment - 20 Achievement Standard credits at Level 3		
Internal credits: 16	External credits: 4	
Level 1 Literacy:	Level 1 Numeracy:	
UE Counting subject: YES	UE Reading: 8	UE Writing: 4

### Where does it lead?

Computing solutions is a highly creative activity that drives innovation in many fields including web design, computer technician, programming.

Students can continue on to specialise in an area of interest at University, Polytechnic or applying their skills in their chosen vocation.

### Course cost

No charge, most resources are accessed digitally.

FOR FURTHER INFORMATION SEE:

Mr Brett



# ECONOMICS / BUSINESS STUDIES

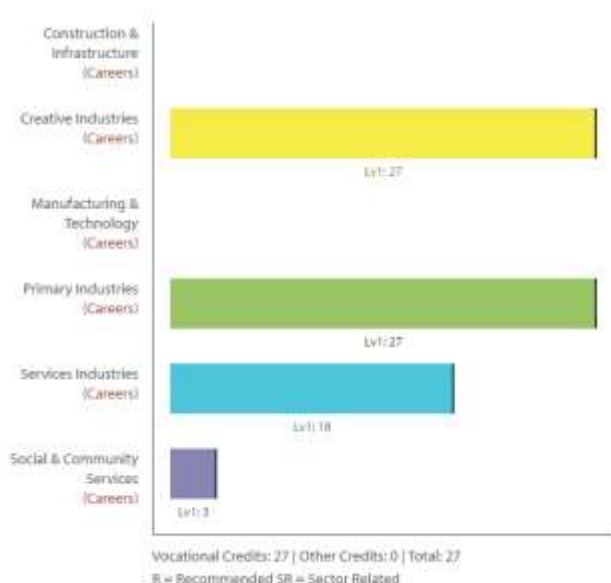
## Year 11 Business Studies / Economics

### Introduction:

This course is designed to develop a broad understanding of how individuals & groups interact as consumers & producers in the market & New Zealand economy. Students will learn about the impacts on business of internal factors (factors that they can control) and how businesses apply the marketing mix to a product. The course can be modified to purely Economics or Business Studies depending on student interest.

**Prerequisite:** None

### Vocational Pathways



Assessment - 18 – 26 Achievement Standard credits at Level 2			
Internal credits: 4 Economics 9 Business Studies		External credits: 12 Economics 4 Business Studies	
Level 1 Literacy: 15 Economics 12 Business Studies		Level 1 Numeracy: nil	

### Indicative Costs

Workbooks \$30

### Future areas of interest and study

Years 12 & 13 Economics, University or Polytechnic study in Accounting; Business Studies; Commerce; Economics; Management; Marketing.

## Year 12 Economics

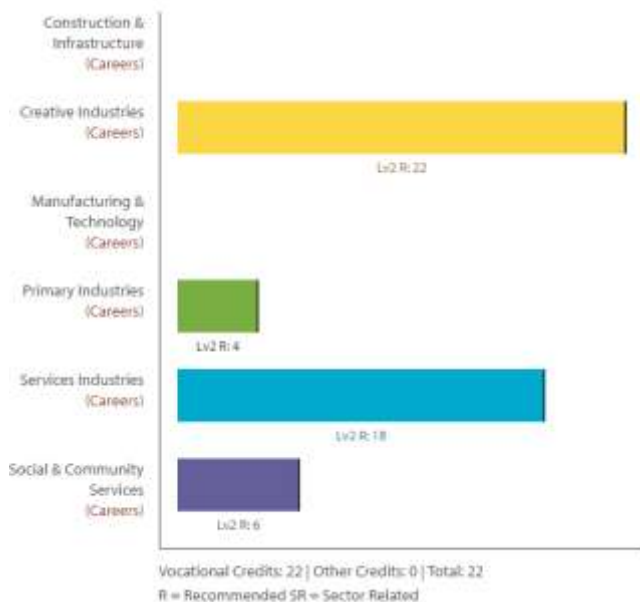
### Introduction

Year 12 and 13 Economics is for those with broad intellectual interests and far reaching goals such as reducing crime, obesity, inequality, terrorism, poverty and infectious diseases

Economic theories are examined in relation to the New Zealand economy and the world. Current events and issues that affect New Zealand are studied including how world events may impact on the New Zealand economy. The course will be related to up to date and recent economic events.

**Pre-requisite:** None

### Vocational Pathways



### Course Outline

The course emphasises the teaching of a wide range of skills required for understanding and participating in a modern economic system.

The major areas covered are Inflation, Growth, Trade, Employment / Unemployment.

Assessment - 22 Achievement Standard credits at Level 2	
Internal credits: 10	External credits: 12
Level 1 Literacy: 22	Level 1 Numeracy: nil
UE Reading: 10	UE Writing: 12

### Indicative Costs

Workbooks \$30

### Future areas of interest and study

Year 13 Economics, University or Polytechnic study in Accounting; Business Studies; Commerce; Economics; Management; Marketing.

## Year 13 Business Economics

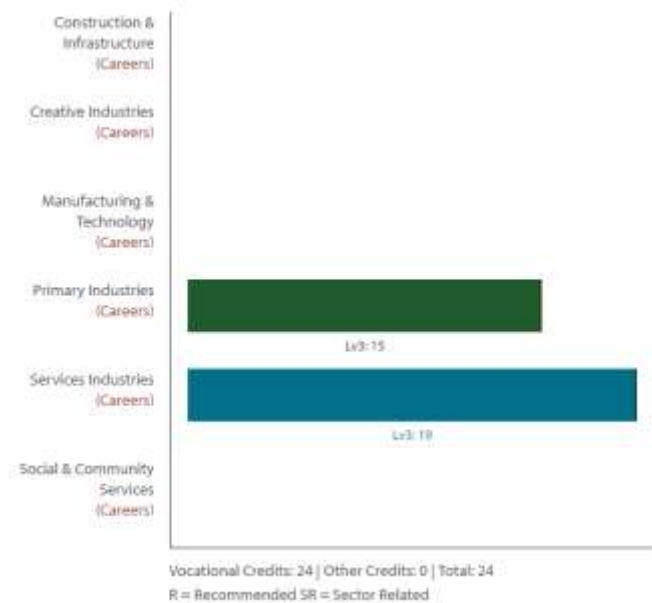
### Introduction

Year 12 and 13 Economics is for those with broad intellectual interests and far reaching goals such as reducing crime, obesity, inequality, terrorism, poverty and infectious diseases

The Year 13 course is designed to enable students to gain a level of economic literacy that will enable them to develop a continuing interest in current economic issues in New Zealand & around the world. The many & varied influences on the NZ economy, their outcomes & successes are discussed as NZ competes to establish its place in the global economy.

**Pre-requisite:** None although a sound interest in current economic events would be useful

### Vocational Pathways



### Course Outline

A selection from the allocation of resources and how supply & demand influence economic activity. Different types of market structures affect decision making. How markets fail & the strategies & policies governments use to correct this market failure. Aggregate economic activity.

Assessment - 24 Achievement Standard credits at Level 3		
Internal credits: 10	External credits: 14	
UE counting subject: Yes	UE Reading: 24	UE Writing: 14

### Indicative Costs

Workbooks \$30

### Future areas of interest and study

University or Polytechnic study in Accounting; Business Studies; Commerce; Economics; Management; Marketing. Diplomacy, International relations.

<b>FOR FURTHER INFORMATION SEE:</b>	<b>Ms Kane</b>
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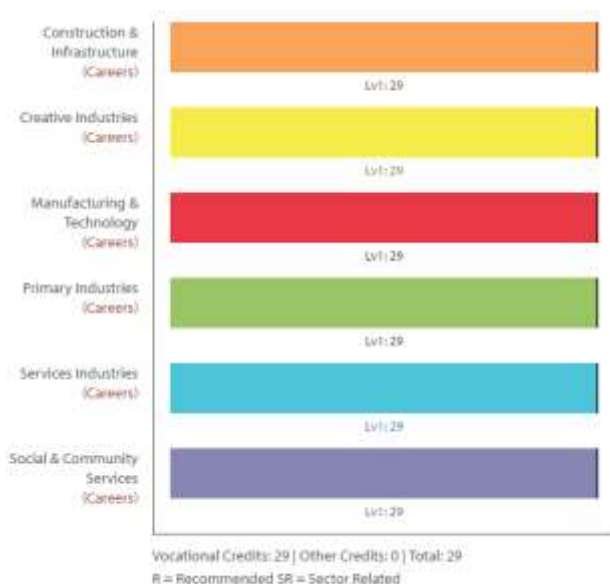
# ENGLISH

## Year 11 (Level One) English

### Course Outline

This course of study covers the Making Meaning and Creating Meaning strands of English in the New Zealand curriculum exploring written, visual and oral language.

### Vocational Pathways



Assessment - 21 Achievement Standard credits at Level 1			
Internal credits: 9		External credits: 12	
Level 1 Literacy: 24		Level 1 Numeracy: 0	

**Costs** - nil

### Where does it lead?

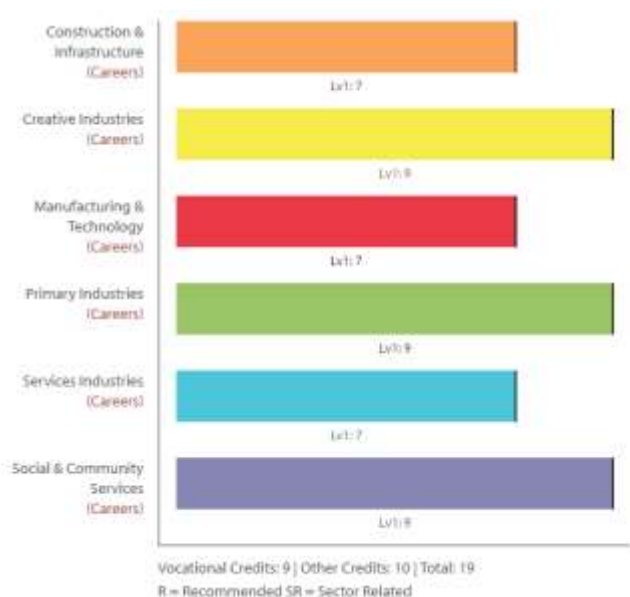
This course leads on to the Level 2 course. English provides an opportunity to improve all aspects of personal communication through language. The study, use and improvement of English is important for all students. Employer surveys frequently emphasise strong verbal and interpersonal communication skills as a top priority. Students with a particular flair or talent for English are suited to a career in any area that places a premium on communication skills.

The study of English can lead to careers in administration, the arts, business, public relations, advertising, government service, human resources, law, print, radio and television journalism, theatre, film and media, professional writing, libraries, publishing and teaching.

## Year 11 (Level One) Alternative English

### Prerequisite

Entry into this course will be made in consultation with the HOF English.



### Course Outline

This course is intended for students who have considerable difficulty with English. Generally students within this programme require extra time to develop their English skills and knowledge.

Assessment - A selection of Unit Standard credits and Achievement Standard credits	
Internal credits: All assessments	External credits: 0
Level 1 Literacy: The course will aim to have students gain their Level 1 Literacy requirements.	Level 1 Numeracy: nil

The final course makeup will be decided in 2018 once the students are entered into classes.

### Costs - Nil

### Where does it lead?

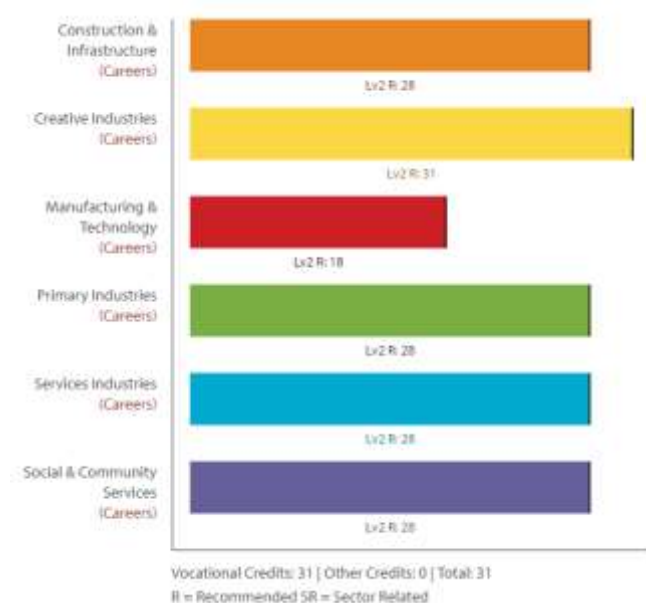
The course will cover practical oral, visual and written skills that provide students with the opportunity to meet vocational and polytechnic goals.

## Year 12 (Level Two) English

### Prerequisite

To enter Level 2 English students need a minimum of 13 credits at Level One English. This includes a minimum of four credits from external Achievement Standards.

### Vocational Pathways



### Course Outline

The Level 2 course builds from the Level 1 course and develops a deeper understanding and appreciation of language and literature. It focuses on critical thinking, communicating clearly and creativity.

Assessment - 17-18 Achievement Standard credits*	
Internal credits: 9-10 (+4*)	External credits: 8
Level 1 Literacy: 17-18	Level 1 Numeracy: nil
UE Reading: 4 (+4*)	UE Writing: 14

For students who may not have enough UE reading credit opportunities from all their subject choices, The Level 2 English course will offer a four credit Reading internal assessment on top of the course load. This will be completed in the student's own time with support from classroom teachers. HOF approval is required for this assessment.

**Costs - Nil.**

### Where does it lead?

Employer surveys frequently emphasise strong verbal and interpersonal skills as a top priority. Students intending to go on to study at university or another tertiary institution are strongly advised to take English as many courses require Level 3 English. Students with a particular flair or talent for English are suited to a career in any area that places a premium on communication skills.

The study of English can lead to careers in administration, the arts, business, public relations, advertising, government service, human resources, law, print, radio and television journalism, theatre, film and media, professional writing, libraries, publishing and teaching.

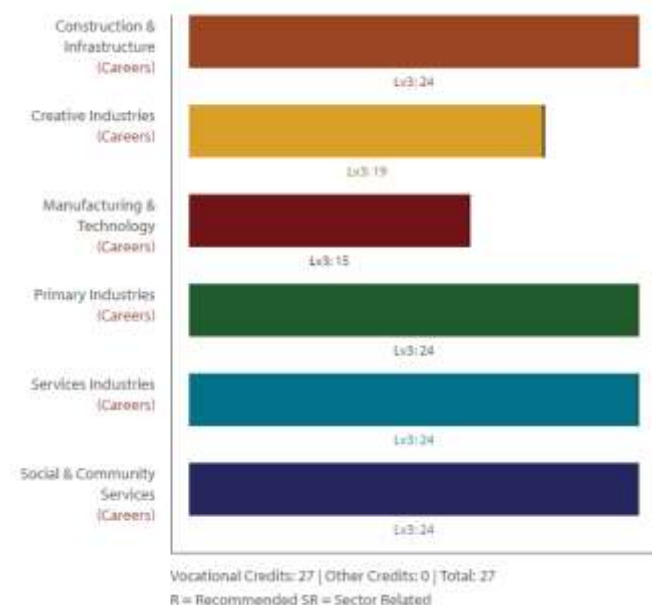


## Year 13 (Level Three) English

### Prerequisite

A minimum of 13 credits at Level Two English. A minimum of four credits must come from an external Achievement Standard.

### Vocational Pathways



### Course Outline

Assessment - up to 21 Achievement Standard credits at Level 3		
Internal credits: 13	External credits: 8	
UE Counting subject: YES	UE Reading: 4	UE writing: 14

**Costs** - Nil.

### Where does it lead?

Employer surveys frequently emphasise strong verbal and interpersonal skills as a top priority. Students intending to go on to study at university or another tertiary institution are strongly advised to take English as many courses require Level 3 English. Students with a particular flair or talent for English are suited to a career in any area that places a premium on communication skills.

The study of English can lead to careers in administration, the arts, business, public relations, advertising, government service, human resources, law, print, radio and television journalism, theatre, film and media, professional writing, libraries, publishing and teaching.

**FOR FURTHER INFORMATION SEE:**

**Ms Robertson**



## **ENGLISH for Speakers of Other Languages (ESOL)**

This course focuses on developing all areas of fluency for students whose first language is not English.

It aims at giving students confidence in using their English, helping them to become more independent and aware of relevant cultural aspects while staying in New Zealand.

It offers support for these students with the English content of their other academic subjects at Cromwell College.

### **I.E.L.T.S Exam – Preparation course for International Students.**

This course focuses on the four areas examined in the IELTS exam – listening, reading, writing and speaking. Students will be prepared for the Academic IELTS test.

Students must be able to cope in mainstream classes to join this course. IELTS (International English Language Testing System) is an internationally recognised English exam from Cambridge University and can be used to show competency in English for many tertiary institutions and also for immigration purposes.

Students will usually travel to Dunedin (at their own expense) to sit this exam before they return home. It is also possible to sit the exam in Queenstown on certain dates.

The cost of the exam is approximately NZ \$435.

<b>FOR FURTHER INFORMATION SEE:</b>	<b>Ms Cuthbert</b>
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# GATEWAY, STAR and TRADES ACADEMY

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## **Year 11 (Level One) Pathways**

This course will provide a pathway to Year 12 Gateway, OSTC (Trades Academy) or employment. Work exploration and Life Skill Unit Standards will be offered. All course costs will be covered.

Course elements relate to employability skills and a development of key competencies. Students will attend at least one two day seminar. The course is completely internally assessed. The Careers and Gateway Coordinator will work in consultation with the teacher in programme design. Entry into this course is by consultation with the Year 10 Dean.

### **Gateway** – a path to careers for young people.

Gateway is an opportunity to blend school study with workplace learning and experience. It provides hands on learning in the workplace and counts toward NCEA qualifications.

It is made available to Year 12 and 13 students (Year 11 in exceptional circumstances). Students must have a clear idea of which industry they wish to pursue a career in, have the ability to gain at least 20 credit offered in this subject, and be work ready. Only students who have shown that they are reliable will be considered for Gateway. The Tertiary Education Commission provides funding for a fixed number of students so places in the Gateway programme are limited.

Gateway has had students working in the Motor, Auto Electrical, Early Childhood, Farming, Trucking, Horticulture, Construction and Hairdressing.

Please show your interest by filling in the Gateway form available from Mrs Borrie. Also choose Gateway as one of your subjects.

### **STAR** - an opportunity for learning beyond the school's curriculum.

STAR is a pool of money for students to access transition to workplace courses or tertiary training courses. It assists students in making career pathway decisions, or to achieve at a level that the school cannot provide. In the past the school has assisted students in a variety of areas: Hospitality / Tourism, Agriculture, Automotive, Hairdressing, Computer Graphics, Diving, Drama, University Mathematics and Polytechnic Taster Courses, Barista.

**STAR is not a subject;** courses are advertised during the year and students can apply to join these. There may be some costs related to a proportion of course fees and course materials, described as 'take home' components.

## **Otago Secondary-Tertiary College** (previously called Trades Academy)

### **Introduction**

If you are a Year 12 – 13 student who is interested in a career in a ‘trades’ you may be able to combine study at the Otago Secondary-Tertiary College, run by Otago Polytechnic, with NCEA studies at school and work towards a nationally transferable tertiary qualification. Students attend OSTC one day a week with students from other secondary schools in the region.

### **Prerequisites / Entrance Criteria**

In order to be selected students have to fill in an enrolment form provided by Otago Polytechnic and attend an interview with Mrs Borrie. Otago Polytechnic makes the final decision based on advice from the school. **Places are limited.** An evening meeting will be held for interested students and parents. You are strongly encouraged to attend to register your interest.

### **Course Outline**

Your trade qualification will be one subject of your NCEA. You will attend Otago Polytechnic Cromwell Campus each Friday to study for your vocational qualification and attend school on Monday to Thursday for the rest of your NCEA qualifications. See Mrs Page for a prospectus.

### **Courses Assessment and Qualifications**

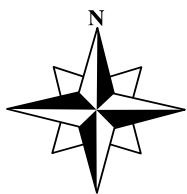
- **Carpentry** – Working towards the National Certificate in Building, Construction and Allied Trades Skills (BCATS), Level 2.
- **Automotive** – Working towards the National Certificate in Motor Industry, Level 3.
- **Primary Industries** – Working towards the National Certificate in Primary Industries Skills Level 2.
- **Bicycle Mechanics** – Working towards the National Certificate in Bicycle Mechanics Level 3
- **Hospitality** – Working towards the National Certificate in Hospitality Level 2.
- **Cookery** – Working towards the National Certificate in Cookery Level 3.

Note: Particular courses may not run if there are insufficient student numbers.

### **Where does it lead?**

Apprenticeships, further study at Polytechnic. The opportunity to make positive career choices.

<b>FOR FURTHER INFORMATION SEE:</b>	<b>Mrs Borrie</b>
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# GEOGRAPHY

## Introduction

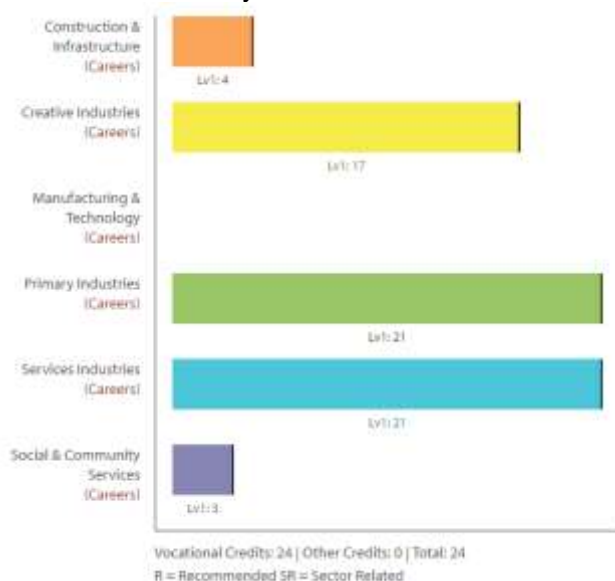
Geography is about landscapes, the natural and cultural processes that have formed and continue to shape them. It is concerned with the impact humans have and will continue to have in the future. Geography links together a number of subject areas to explain patterns and processes in both the natural and cultural environments. In so doing, it teaches a wide range of skills - mapping, graphing, data and resource interpretation, field work techniques, essay writing, planning and decision making, valuing and inquiry skills. It examines contemporary issues on a local, regional and global scale and educates students to examine viewpoints and opinions in order to enable them to become informed decision makers in the future.

## Year 11 (Level One) Geography

### Prerequisites

None

### Vocational Pathways



Assessment - 25 Achievement Standard credits at Level 1			
Internal credits: 13		External credits: 12	
Level 1 Literacy: 20		Level 1 Numeracy: 8	

### Where does it lead?

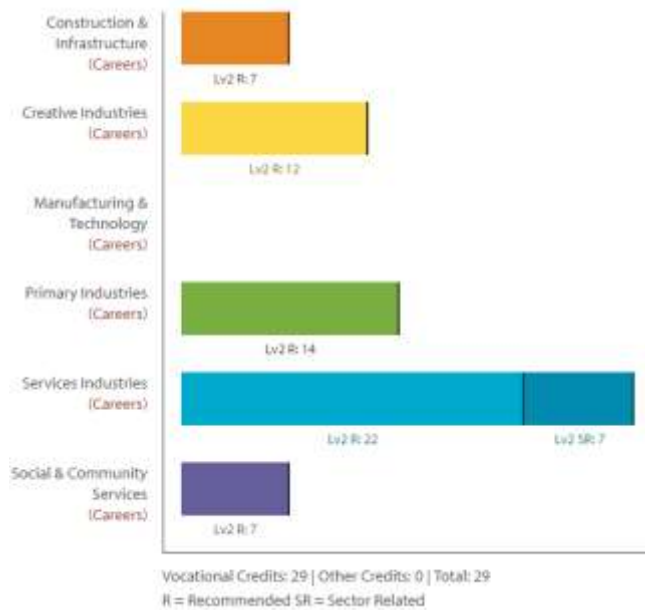
NCEA Level 2 Geography

## Year 12 (Level Two) Geography

### Prerequisites

None

### Vocational Pathways



Assessment - 22 Achievement Standard credits at Level 2	
Internal credits: 14	External credits: 12
Level 1 Literacy: 22	Level 1 Numeracy: 12
UE Reading: 8	UE Writing: 8

### Costs

Fieldwork is involved (2 fieldtrips) expect to pay approximately \$150 in total. All fieldtrips must be paid in full prior to departure.

### Where does it lead?

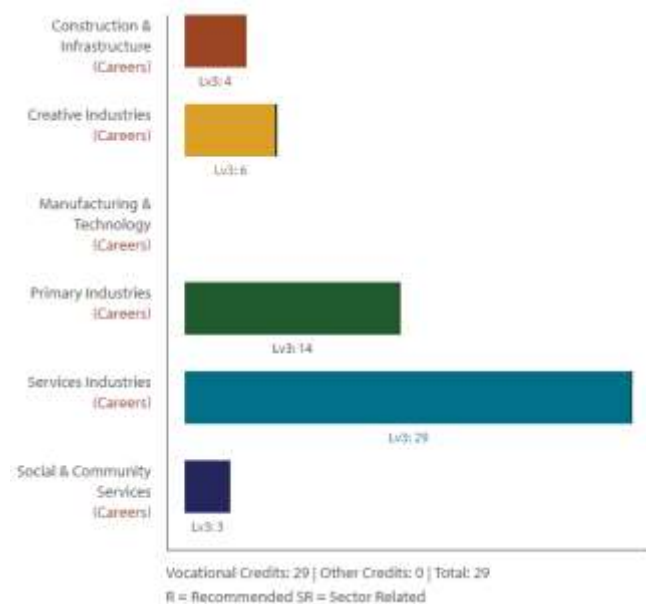
Travel and tourism, agriculture and horticulture, mineral exploration, planning, marketing, NCEA Level 3 Geography.

## Year 13 (Level Three) Geography

### Prerequisites

Reasonable attainment of Level 2 NCEA grades in English and Geography are preferable. Entry is at the discretion of the Head of Faculty.

### Vocational Pathways



Assessment - 23 Achievement Standard credits at Level 3		
Internal credits: 11	External credits: 12	
UE Counting subject: YES	UE Reading 18	UE Writing: 12

### Costs

Approximately \$100 in total for fieldwork. All fieldtrips must be paid in full prior to departure.

### Where does it lead?

A well rounded course which prepares students for tertiary studies in a wide range of subjects including Resource Management, Tourism, Planning, Surveying, Agriculture and Environmental Studies.

FOR FURTHER INFORMATION SEE: <b>Mr Parsons</b>
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# HISTORY

*“Those who ignore history cannot know the present.”*  
- Levi Strauss

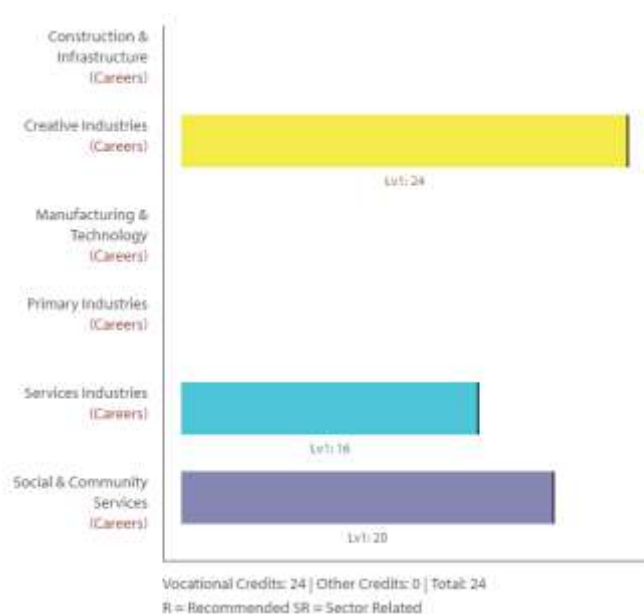
History is all about people – what they did and why they did it. To better understand our future, we must have a clear understanding of the past. History is the story of us.

## Year 11 (Level One) History

### Prerequisites

No prerequisites.

### Vocational Pathways



### Course Outline

The Year 11 History course explores several major themes in modern history which have dramatically influenced the contemporary world we live in.

These themes involve aspects of modern history such as international relations, race relations, social change and conflict. Context to be decided by student input.

Assessment - 20 Achievement Standard credits at Level 1	
Internal credits: 12	External credits: 8
Level 1 Literacy: 20	Level 1 Numeracy: nil

The internal assessment component involves students undertaking individual research projects on a topic of their choice.

### Course Costs – Nil

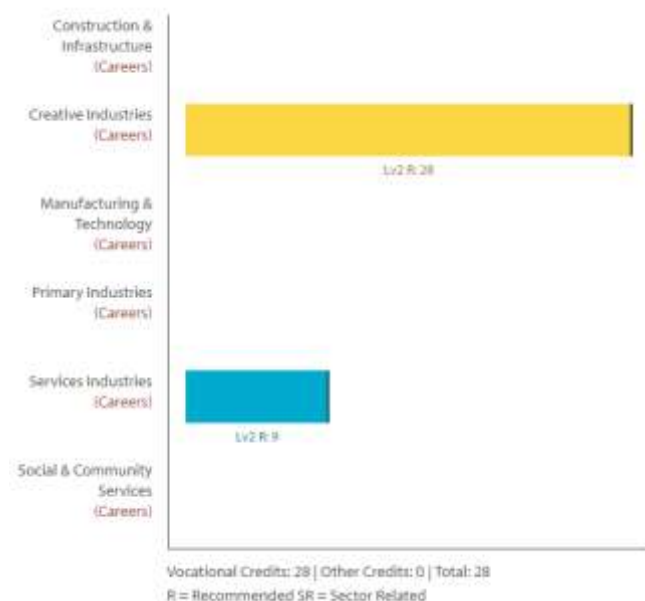


## Year 12 (Level Two) History

### Prerequisites

None

### Vocational Pathways



### Course Outline

In Year 12 History we start taking a bigger look at the world. Context decided by student input.

Assessment - 23 Achievement Standard credits at Level 2	
Internal credits: 14	External credits: 9
Level 1 Literacy: 23	Level 1 Numeracy: nil
UE Reading: 23	UE Writing: 9

**Course Costs** - Nil

## Year 13 (Level Three) History

### Prerequisites

None.

### Course Outline

In Year 13 History we start taking a longer term approach to history. Context to be decided by student input.

Assessment - 25 Achievement Standard credits at Level 3		
Internal credits: 15	External credits: 10	
UE Counting subject: YES	UE Reading: 25	UE Writing: 10

### Course costs

Nil

### Where will History take me?

The skills developed through the study of History are sought after in careers such as law, journalism, politics, broadcasting, teaching, business and marketing.

For further information see:	<b>Mr Booth</b>
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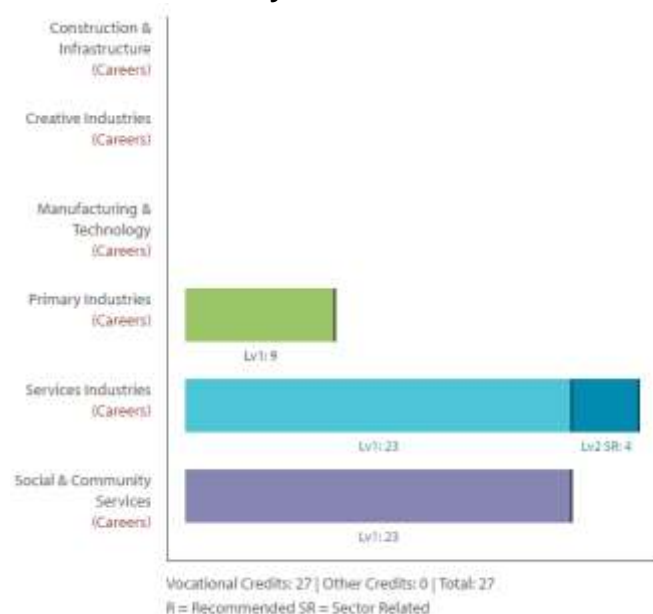
# HOME ECONOMICS

## Year 11 (Level One) Home Economics

A course of practical and theoretical activities in Home Economics. It will equip you with the necessary skills to maintain your own personal well-being, both now and in the future; as well as prepare you for future academic and vocational opportunities.

**Prerequisites** - None

### **Vocational Pathways**



### **Course Outline**

The course includes the following topics-

- Knowledge of practices and strategies to address food handling issues.
- Knowledge of an individual's nutritional needs.
- How cultural practices influence eating patterns in New Zealand.
- How packaging information influences an individual's food choices and wellbeing.

Assessment - 18 Achievement Standard credits at Level 1 and 4 Unit Standard credits at Level 1	
Internal credits: 14	External credits: 4
Level 1 Literacy: 12	Level 1 Numeracy: nil

### **Course Costs**

Food costs of \$140.00. Please note 50% of this cost must be paid by the end of Term One and 100% of this cost must be paid by the end of Term Two.

## Year 12 (Level Two) Home Economics

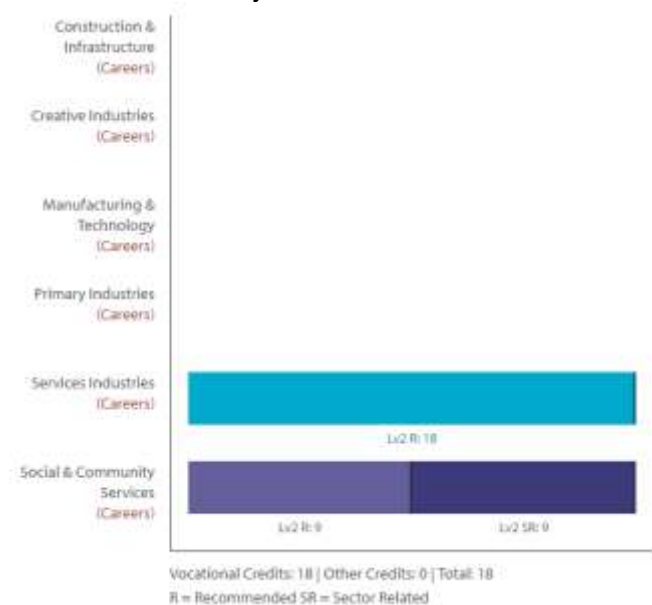
### Course Outline

A course based on practical and theoretical activities in Home Economics. The main focus is on food, with an emphasis on food safety, food sustainability, the provision of food for people with specific food needs, and looking at health promoting strategies. There will be a focus on learning cooking skills, developing food presentation skills and health enhancing attitudes to food.

### Prerequisites

None. An interest in the subject is essential. Level One Home Economics would be useful.

### Vocational Pathways



<b>Assessment - 18 achievement standard credits at Level 2</b>	
<b>Unit standard credits may be available for some students</b>	
Internal credits: 10	External credits: 8
Level 1 Literacy: 18	Level 1 Numeracy: nil
UE Reading: nil	UE Writing: 8

plus a Barista Course at Otago Polytechnic worth 7 credits

### Costs

Food costs are involved - \$140.00. Please note 50% of this cost must be paid by the end of Term One and 100% of this cost must be paid by the end of Term Two.

### Where does this subject lead?

Home Economics Level 3, Home Economics is a university approved subject Polytechnic and University. Jobs in the Food and Health Industries.

## Year 13 (Level Three) Home Economics

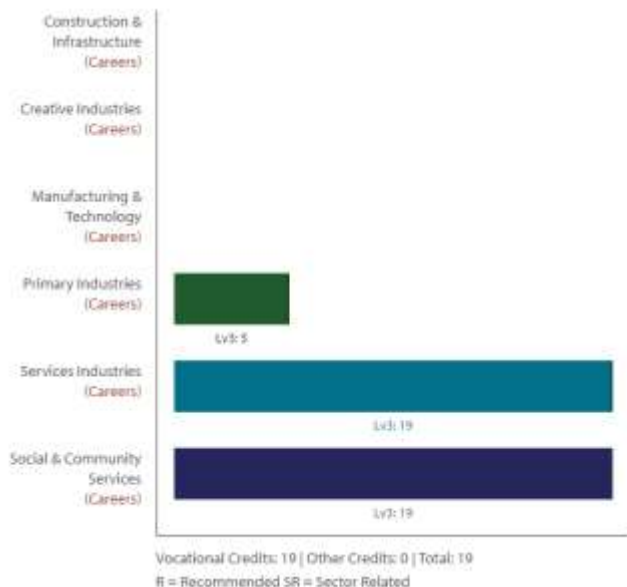
### Introduction

A course based on theoretical activities in Home Economics. The main focus is on food, with an emphasis on healthy eating from a New Zealand wide perspective. There will be some focus on cooking and developing health enhancing attitudes to food.

### Prerequisite

Level One and Two Home Economics would be an advantage.

### Vocational Pathways



### Course Outline

- Investigate a nutritional issue affecting the well-being of NZ society
- Implement an action plan to address a nutritional issue affecting society
- Influences of multinational corporations on eating patterns in NZ
- Influences of food advertising on well-being

Assessment - 19 Achievement Standard credits at Level 3		
Internal credits: 15	External credits: 4	
UE Counting subject: YES	UE Reading 10	UE Writing: 4

### Cost

Food costs are involved - \$140.00. Please note 50% of this cost must be paid by the end of Term One and 100% of this cost must be paid by the end of Term Two.

### Where does this subject lead?

University, Polytechnic courses. Employment in the Food and Health Industries.

**FOR FURTHER INFORMATION SEE: Mrs Hayes**



# INTERNATIONAL LANGUAGES

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## Introduction

French is the foundation international language at Cromwell College. Other languages are available through supported distance learning. Senior classes may be available as multi-level classes depending on the number of students.

## Year 11 (Level One)

Appropriate NCEA Level 1 Achievement Standards for each language will be offered with 18 – 24 credits available.

Prerequisites: a course of at least one year at Year 9 or Year 10 level.

## Year 12 (Level Two)

Appropriate NCEA Level 2 Achievement Standards will be offered with 18 – 24 credits available.

Prerequisites: at least 8 credits in the relevant NCEA Level 1 course.

## Year 13 (Level Three)

Appropriate NCEA Level 3 Achievement Standards will be offered with 18 – 24 credits available.

Prerequisites: at least 8 credits in the relevant NCEA Level 2 course.

## Where do languages lead?

The career pathways of travel, hospitality and tourism, journalism, business and marketing, law and teaching are open to students with language skills. They are also a useful tool for students working in the wine growing industry and adventure sports, as well as in future personal travel and exploration of the wider world.

<b>FOR FURTHER INFORMATION SEE:</b>	<b>Ms Aitchison</b>
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## Prerequisites

## Vocational Pathways



The course covers Number, Trigonometry and Statistics internally and Algebra, Graphics and Probability externally.

## Costs

- A graphical calculator fx-9750G that costs approximately \$90. Essential
- Work booklets that cost approximately \$30 (available from Paper Plus).

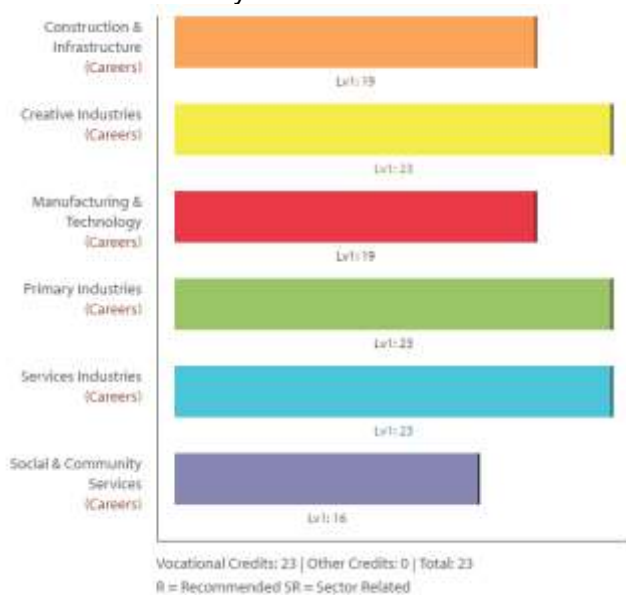
Students who are successful in reaching the prerequisites for Year 12 Mathematics may progress to this course in the following year or the Year 12 Applied Mathematics Course.

## Year 11 (Level One) Mathematics Internal

### Prerequisites

Entry to the Year 11 Mathematics course is based on a student's results in the Year 10 end of year examination and their overall commitment to study.

### Vocational Pathways



### Course Outline

Year 11 Mathematics is a full year course that counts towards NCEA Level One. All students must pass a minimum of 10 credits in Mathematics to gain the Numeracy component to achieve NCEA Level One. This course is for students who have a ok understanding of the topics covered in Year 10 Mathematics and for those intending to carry on with Mathematics in Years 12 and 13. .

The course covers Number, Trigonometry, Probability, Linear Algebra and Statistics internally and Chance & Data externally.

Assessment - 21 Achievement Standard credits at Level 1	
Internal credits: 17	External credits: 4
Level 1 Literacy: 7	Level 1 Numeracy: 21

### Costs

As part of this course students will need:

- A scientific calculator. Essential
- Work booklets that cost approximately \$30 (available from through the school).

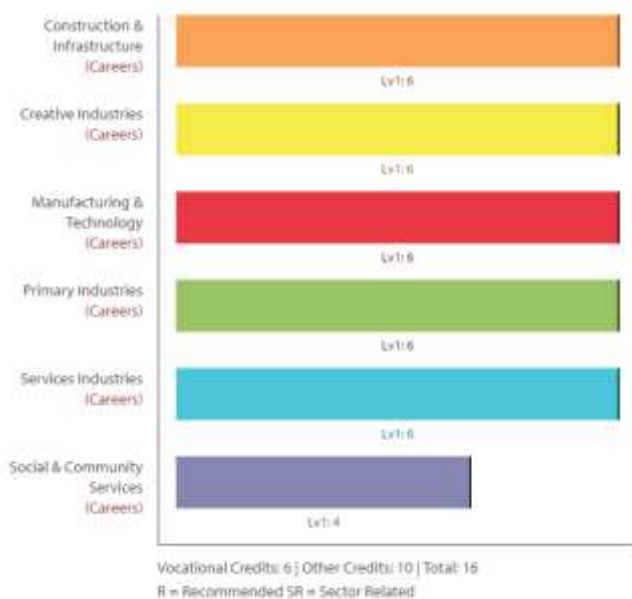
### Where does it lead?

Year 12 Applied Mathematics Course.

## Year 11 (Level One) Numeracy

### Prerequisites

This course is designed for students who on the basis of Year 10 results would experience difficulty in the standard Year 11 course.



### Course Outline

The course is designed to give students the opportunity to gain Level 1 Numeracy. To gain Numeracy students must pass all three Numeracy standards.

Numeracy unit standards: Number, Measurement, Statistics  
Possible achievement standards: Transformation, Geometry, Statistics

Assessment - 10 Unit Standard credits at Level 1	
6 Achievement Standard credits at Level 1	
Internal credits: 16	External credits: 0
Level 1 Literacy: 4	Level 1 Numeracy all 3 US for 10 credits Or 6 AS credits that count towards

### Costs

As part of this course students will be required to have a scientific calculator.

### Where does it lead?

On completion of this course students may progress to the Year 11 Achievement Standards course. If a student excels at this course they may be able to enter the Level 2 Internal Mathematics course with HOF approval.

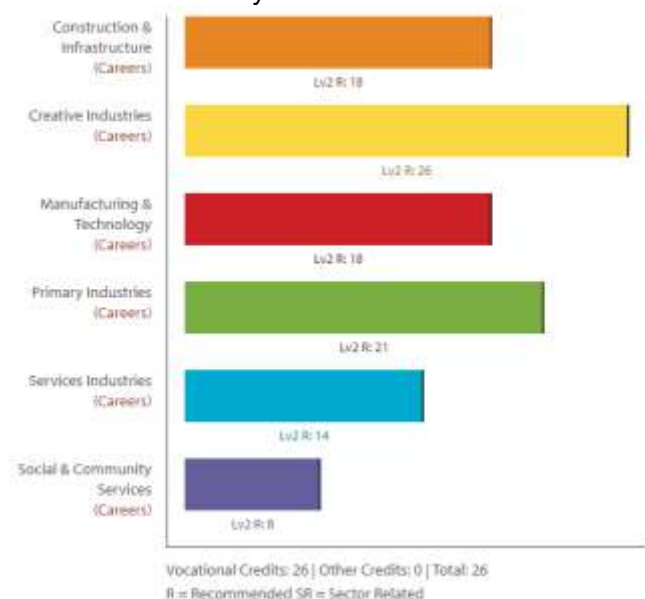


## Year 12 (Level Two) Mathematics

### Prerequisites

14+ credits in Level One Mathematics, which should include Algebra, Trigonometry and Probability; or Head of Faculty discretion.

### Vocational Pathways



### Course Outline

Three Internal Achievement Standards (Graphs, Statistics and Trigonometry)  
Three External Achievement Standards (Algebra, Calculus and Probability)

Assessment - 24 Achievement Standard credits at Level 2	
Internal credits: 11	External credits: 13
Level 1 Literacy: 8	Level 1 Numeracy: 24
UE Reading: nil	UE Writing: nil

### Costs

As part of this course students will be **required** to have:

- A **graphics calculator** approximate cost \$90. Essential
- Work books, approximate cost \$30.

### Beyond this course

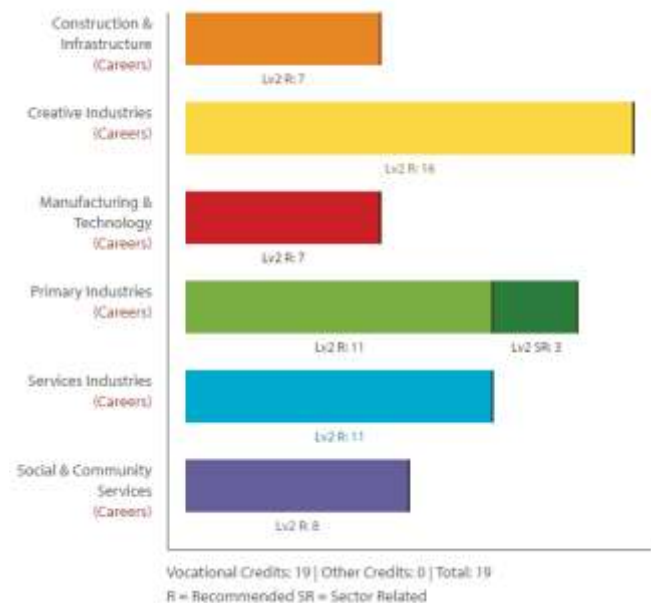
On completion of this course students may progress depending on results to either Mathematics with Calculus or Mathematics with Statistics. Year 12 Mathematics is essential for any students who are intending on studying Sciences, medicine, engineering, accounting or data collection and analysis. It is a prerequisite for many Polytechnic and University courses.

## Year 12 (Level Two) Internal Mathematics

### Prerequisites

This course is designed for those students who on the basis of their Year 11 results would experience difficulty in the Year 12 External course.

### Vocational Pathways



### Course Outline

This course consists of a selection of internally assessed Mathematics Achievement Standards and a selection of generic unit standards. .

Assessment - 13 Achievement Standard credits at Level 2 and 9 Unit Standard credits at Level 2	
Internal credits: 22	External credits: 0
Level 1 Literacy: 6	Level 1 Numeracy: 13
UE Reading: nil	UE Writing: nil

### Costs

As part of this course students will be required to have:

- A **graphics calculator** approximate cost \$90. Highly recommended.
- Work books, approximate cost \$25 (payment required before issue).

### Beyond this course

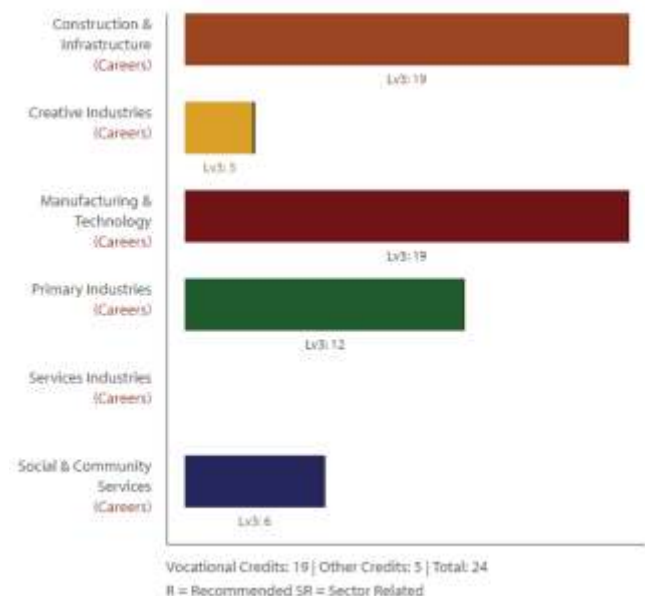
The purpose of this course is to build on Mathematical skills the student already has to prepare them for the Mathematics of everyday life and Mathematics of the workplace. On completion of this course students may progress, depending on results, to study Mathematics with Statistics.

## Year 13 (Level Three) Mathematics with Calculus

### Prerequisites

Five Mathematics Achievement Standards at Level Two, which must include Algebra, Calculus and Graphs; or Head of Faculty discretion.

### Vocational Pathways



### Course Outline

This is a pure mathematics course aimed at students who intend further study at a university or polytechnic. It is especially important for students who wish to carry on with further study in science, engineering, surveying or certain aspects of commerce.

The course follows on from some of the topics covered in Year 12 Mathematics and introduces new topics of work. To successfully complete this course a good understanding of algebraic skills is essential.

The course covers differentiation, integration, complex numbers, conic sections, trigonometric functions.

Assessment - 24 Achievement Standard credits at Level 3		
Internal credits: 7	External credits: 17	
UE Counting subject: YES	UE Reading: nil	UE Writing: nil

### Costs

As part of this course students will be required to have:

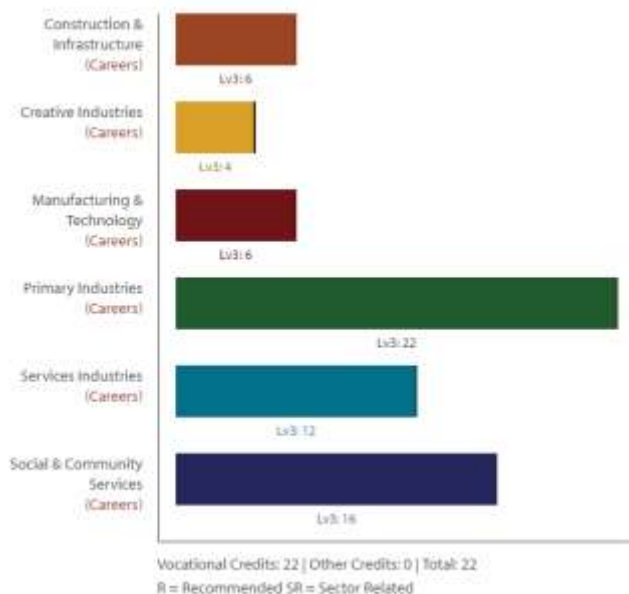
- A **graphics calculator** approximate cost \$90. Essential
- Work books, approximate cost \$30 (available through the school)

## Year 13 (Level Three) Mathematics with Statistics

### Prerequisites

Five Mathematics Achievement Standards at Level Two, which must include Algebra or Probability or Calculus; or Head of Faculty discretion.

### Vocational Pathways



### Course Outline

The course follows on from some of the topics covered in Year 12 Mathematics. The course covers: time series, bivariate data, statistical inference, experimental design and probability.

Assessment - 24 Achievement Standard credits at Level 3		
Internal credits: 16	External credits: 8	
UE Counting subject: YES	UE Reading: nil	UE Writing: nil

### Costs

As part of this course students will be required to have:

- A **graphics calculator** approximate cost \$90. Essential
- Work books, approximate cost \$20 (available through the school).

### Where does it lead?

This is an applied mathematics course aimed at students who intend further study at a university or polytechnic. It is especially important for students who wish to carry on with further study in science, law, commerce or the social sciences.

FOR FURTHER INFORMATION SEE:

Mr G Thomson



# MUSIC

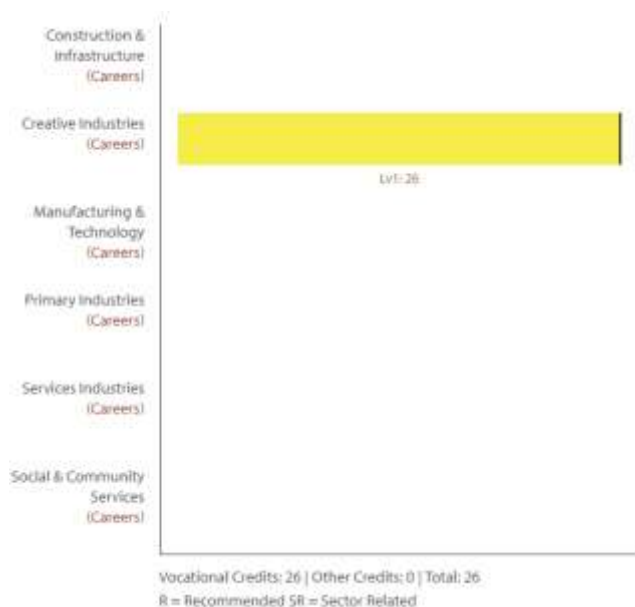
## Year 11 (Level One) Music

### Prerequisites

Year 10 music is essential. If you have not completed Year 10 you must be learning from a private music tutor for at least three years. Students must have prior knowledge and ongoing tuition in instrumental music (voice is an instrument).

### Corequisites

Practical musical involvement in school music activities. Theory of music, grade three is a good start, less will require extra work.



### Course Outline

Individual Performance  
Group Performance  
Composition (creating music)  
Listening (aural skills)  
Musical Knowledge (study)

Assessment - up to 26 Achievement Standard credits at Level 1	
Internal credits: 22	External credits: 4
Level 1 Literacy: 10	Level 1 Numeracy 0

### Indicative costs

Possible costs include: instrument hire \$120; itinerant lessons are free, private lessons at student's cost. Some costs may be involved for trips etc.

### Where does it lead?

NCEA Level 2 Music; Performance Music; further music making as a career or leisure pursuit.

## Year 12 (Level Two) Music- Making Music / Music Studies

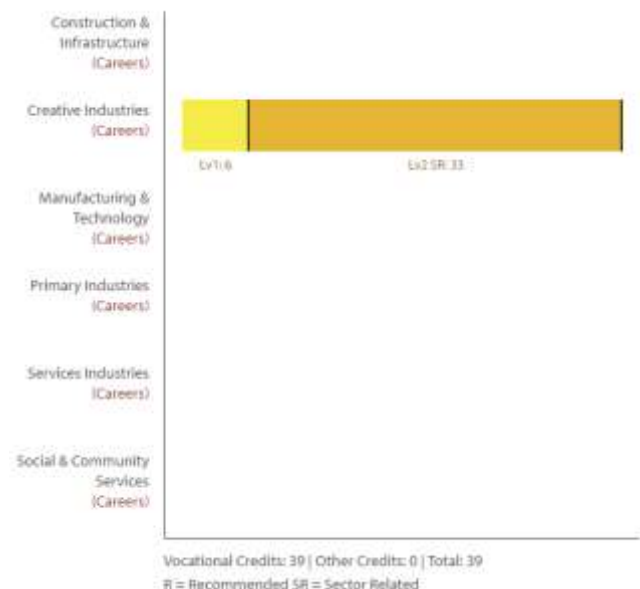
### Prerequisites

Grade 4 Theory or equivalent, or success in Level 1 NCEA Music. Students must be receiving ongoing tuition in instrumental music (voice is an instrument). Four years of ITM.

### Corequisites

Practical musical involvement in school music activities.

### Vocational Pathways



### Course Outline

Solo performance	Major Music work study
Solo second instrument	Instrumentation
Group performance	New Zealand Music
Compose two substantial pieces of music	

A combination of the above course content may be possible.

Assessment - 16 / 18 Achievement Standard credits at Level 2	
Internal credits: Making Music 16 Music Studies 12	External credits: Music Studies 4
Level 1 Literacy: Making Music 6	Level 1 Numeracy: Nil
UE Reading: Nil	UE Writing: Nil

### Indicative Costs

Possible costs include: instrument hire \$120; itinerant lessons are free, private lessons at student's cost. Some costs if travelling to events.

### Where does it lead?

NCEA Level 3 Music; Performance Music; leisure activities; electronics; careers in broadcasting; teaching; television; music therapy music sales and advertising.

## Year 13 (Level Three) Music - Making Music / Music Studies

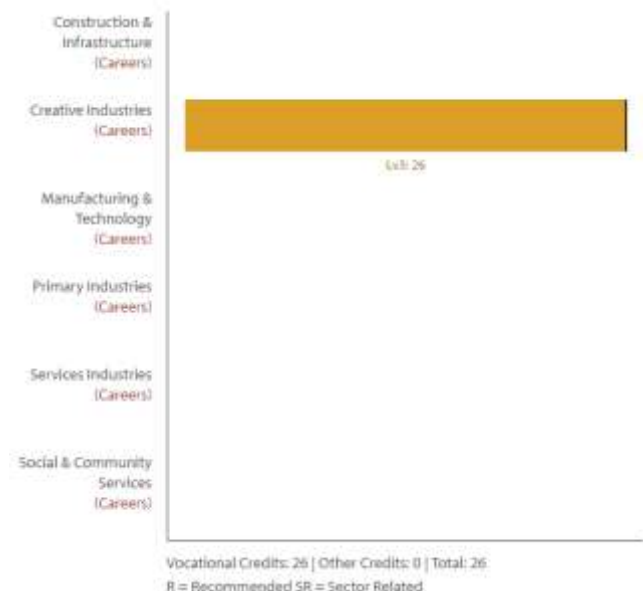
### **Prerequisites**

Grade V Theory or equivalent, or success at NCEA Level 2. A minimum four years ongoing learning of a musical instrument.

### **Corequisites**

Practical musical involvement in school music activities.

### **Vocational Pathways**



**Course Outline** - Two courses are available, both have NCEA Level 3 credits.

Making Music – 20 credits possible

Solo performance

Solo second instrument

Compose 3 substantial pieces of music

Song writing 3 pieces

Music Studies – 24 credits possible

Harmony

Music analysis

Music works

Arrange for ensemble

Research topic

A combination of the above course content must take into consideration individual strengths.

<b>Assessment - 20-24 achievement standard credits at Level 3</b>		
Internal credits:	External credits:	
Making Music 20	Making Music 0	
Music Studies 18	Music Studies 6	
UE counting subject: Yes	UE Reading: 6	UE Writing: 0

### **Indicative Costs**

Possible costs include: instrument hire \$120; itinerant lessons are free, private lessons at student's cost. Some expenses for travel.

### **Where does it lead?**

University Music; Performance Music; leisure activities; electronics; careers in broadcasting, teaching, music therapy, music sales, advertising, sound engineering and journalism.

**FOR FURTHER INFORMATION SEE:**

**Mrs Forsyth**



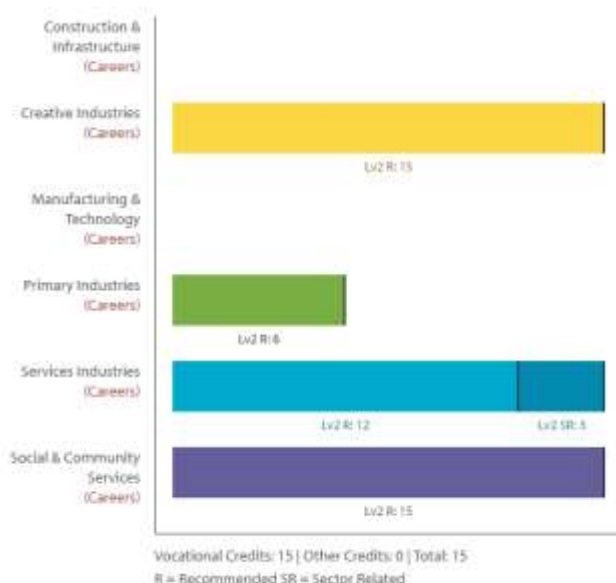
# OUTDOOR LEADERSHIP

## Year 12 (Level Two) Outdoor Leadership

### Prerequisites

An interest in the outdoors, reasonable fitness and a willingness to be involved in leadership.

### Vocational Pathways



### Course Outline

The Outdoor Leadership Course is based around learning through practical experience combined with written assessments. Students will experience a wide range of outdoor activities and leadership opportunities with a focus on developing their personal and social skills.

The course covers:

- Working effectively as part of a team (adventure based learning, overnight camp, navigation, regaining).
- Managing risks (abseil, rock climbing, mountain biking and tramping).
- Planning an expedition (tramping expedition).
- Practical performance in the outdoors (ski/snowboarding)
- Leadership (leading junior students)

Assessment - 20 Achievement Standard credits at Level 2. Some of these may be replaced by Unit Standards for some students	
Internal credits: 20	External credits: 0
Level 1 Literacy: 12	Level 1 Numeracy: 0
UE Reading: nil	UE Writing: nil

### Indicative Costs

The cost of Outdoor Leadership will be \$330, **plus** the snow programme. The cost covers all instruction, equipment and transport. The snowsports in Term 3 will be approximately \$150 for a Cardrona season pass, \$140 for eight three hour lessons and \$20 per week (\$160) for transport.

The course fee of \$330 must be paid in full by the end of week 4 Term 1.

The snow sports costs are to be paid by the end of Term 2.

### Where does it lead?

Outdoor Leadership sets students up for a range of higher education courses and careers. It is available as a UE counting course in Year 13. Outdoor Leadership is an ideal choice for students who enjoy working with others and learning through practical experiences.

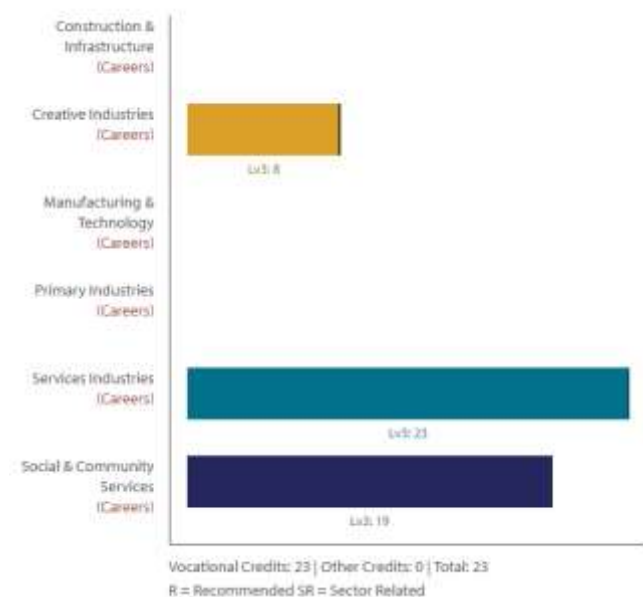


## Year 13 (Level Three) Outdoor Leadership

### Prerequisites

An interest in the outdoors, reasonable fitness and a willingness to be involved in leadership.

### Vocational Pathways



### Course Outline

The Outdoor Leadership course is based around learning through practical experience combined with some written assessments. Students will experience a wide range of outdoor activities and leadership opportunities with a focus on developing their personal and social skills.

The course covers:

- Leadership – adventure based learning, 3 day tramp, rock climbing / abseiling, leading juniors in the outdoor environment).
- Managing risk (kayaking in the pool, flat water and up to grade 2 moving water, and an overnight journey).
- Lifelong involvement in physical activity – outdoor skills (navigation, weather, survival), mountain biking.
- Practical performance in the outdoors (ski / snowboard).
- Environmental sustainability.

Assessment - 19 Achievement Standard credits at Level 3		
Internal credits: 19	External credits: 0	
UE Counting subject: YES	UE Reading 8	UE Writing: nil

### Indicative Costs

The cost of Outdoor Leadership will be \$330, **plus** the snow programme. The cost covers all instruction, equipment and transport. The snowsports in Term 3 will be approximately \$150 for a Cardrona season pass, \$140 for eight 3 hour lessons and \$20 per week (\$160) for transport.

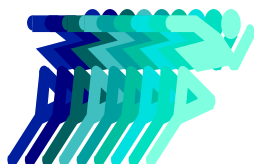
The course fee of \$330 must be paid in full by the end of week 4 Term 1.

The snow sports costs are to be paid by the end of Term 2.

### Where does it lead?

Outdoor Leadership sets students up for range of higher education courses and careers. It gives confidence in communicating, decision making, leadership and dealing with pressure. Outdoor Leadership is an ideal choice for students who enjoy working with others and learning through practical experiences.

<b>FOR FURTHER INFORMATION SEE:</b>	<b>Mr Hodkinson or Ms Coker</b>
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# PHYSICAL EDUCATION

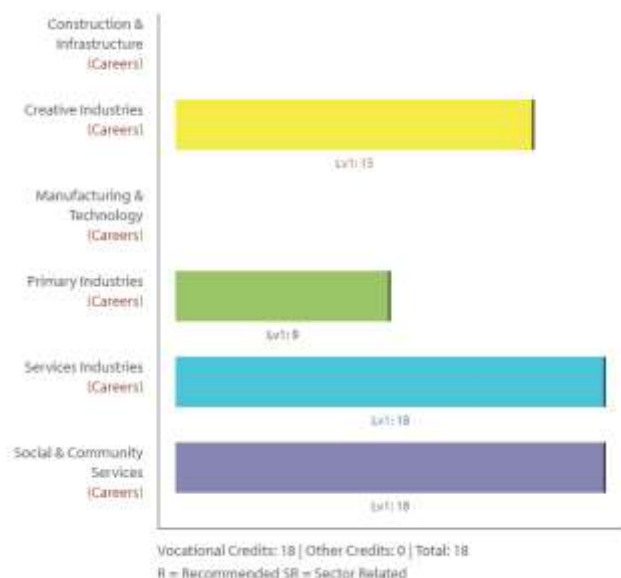
## Year 11 (Level One) Physical Education

### Prerequisites

Students should have achieved Achievement Standard 1.1, completed in Year 10.

Students must be prepared to complete both theory and practical work. Students should have an active interest in physical activity and/or sport.

### Vocational Pathways



### Course Outline

Practically based but with theory sessions. Most assessment combine written and practical work.

- Skill learning, factors affecting performance, pentathlon performance.
- Anatomy, biomechanics, exercise physiology, practical activities.
- Responsible behaviour in the outdoors, skiing or snowboarding performance.
- Teamwork, interpersonal skills, team sports performance.

Note: it is possible for a student to do Physical Education but not participate in the Term Three snow programme. An alternative programme will be organised for these students.

Assessment - 18 achievement standard credits at Level 1 4 Unit Standard credits at Level 1	
Internal credits: 22	External credits: 0
Level 1 Literacy: 15	Level 1 Numeracy: 0

### Indicative costs

There is a cost associated with the Term Three snow programme. The cost covers all instruction, equipment and transport - approximately \$150 for a Cardrona season pass, \$140 for eight 3 hour lessons and \$20 per week (\$160) for transport. Some students may also require season gear hire.

The snow sports cost must be paid in full by the end of Term 2.

Students not participating in the snowsports programme may incur some costs in relation to the alternative programme they will undertake.

### Where does it lead?

Level 2 Physical Education.

Tertiary study in Physical Education, Health Sciences, Leisure Studies, Sports Industry, Fitness Industry. Careers in Physical Education, Sport, Recreation and Health sectors.

## **Year 11 (Level One) Practical Physical Education**

### **Prerequisites**

Students should have an active interest in Physical Education and Sport.

### **Course Outline**

This is the more practical of the two Level 1 PE pathways and suited to students who tend to be more kinaesthetic (hands on) learners. The course focusses on practical performance, interpersonal skills, leadership and coaching, social responsibility and encouraging participation in others. The course is 75% practical and 25% theory.

<b>Assessment - 18-20 credits - a combination of Achievement Standards and Unit Standards at Level 1</b>	
Internal credits: 18-20	External credits: 0
Level 1 Literacy: 8	Level 1 Numeracy: 0

### **Costs**

There is a cost associated with the Term Three snow programme. The cost covers all instruction, equipment and transport - approximately \$150 for a Cardrona season pass, \$140 for eight 3 hour lessons and \$20 per week (\$160) for transport. Some students may also require season gear hire.

The snow sports cost must be paid in full by the end of Term 2.

Students not participating in the snowsports programme may incur some costs in relation to the alternative programme they will undertake.

### **Where does it lead?**

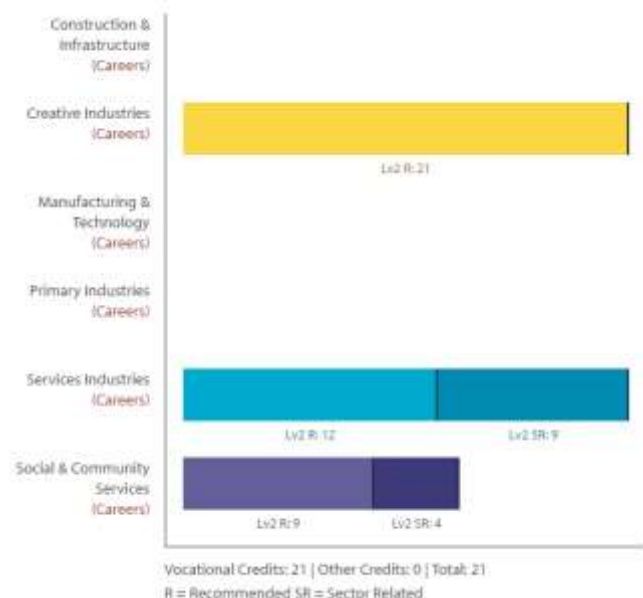
If your results are strong enough to NCEA Level 2 Physical Education or further study at Polytechnic. Careers in sport and recreation such as gym instructor, sport coaching, professional sport.

## Year 12 (Level 2) Physical Education

### Prerequisites

A guideline is achieved or higher in Physical Education Achievement Standards 1.2, 1.5 and 1.6. It is possible to take Level 2 Physical Education without having taken Level 1 Physical Education. Students in this situation should speak to Ms Coker or Hodgkinson.

### Vocational Pathways



### Course Outline

The course has both theoretical and practical elements.

- Anatomy, biomechanics, skill learning, sports psychology, skill performance.
- Methods of training, principles of training, exercise physiology, sports psychology, fitness performance.
- Significance of sporting events on society.
- Leadership skills, kiwisport coaching.

Assessment - 21 Achievement Standard credits at Level 2	
Internal credits: 21	External credits: 0
Level 1 Literacy: 17	Level 1 Numeracy:
UE Reading: nil	UE Writing: nil

### Indicative Costs

\$30 (approximately) for to cover course costs such as swimming pool entry, commercial gym visits, use of sports facilities etc.

### Where does it lead?

Level 3 Physical Education (NCEA).

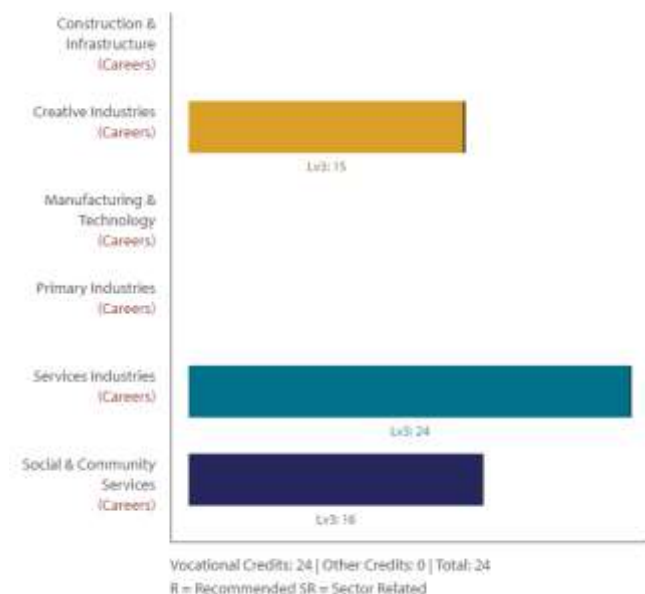
Tertiary study in Physical Education, Health Sciences, Leisure Studies, Sports Industry, Fitness Industry. Careers in Physical Education, Sport, Recreation and Health sectors.

## Year 13 (Level Three) Physical Education

### Prerequisites

A guideline is achieved or higher in Physical Education Achievement Standards 2.1, 2.2, 2.3, 2.4. It is possible, but difficult, to take Level 3 Physical Education without having taken Level 1 and Level 2 Physical Education. Students in this situation should speak to Mr Hodgkinson or Ms Coker

### Vocational Pathways



### Course Outline

The course has practical and theoretical elements; it involves a lot of independent work.

- Designing, implementing and reviewing a personal training programme, multi sports performance.
- Research of a physical activity issue, critical thinking.
- Taking action to influence other people's physical activity.
- Anatomy, biomechanics, motor skill learning, skill appraisal, practical performance.

Assessment - 24 Achievement Standard credits at Level 3		
Internal credits: 24	External credits: 0	
UE Counting subject: YES	UE Reading 4	UE Writing: nil

### Indicative Costs

\$30 (approximate) to cover course costs such as entry to the swimming pool, multi sports event, professional coaching, commercial gym visits etc.

### Where does it lead?

Tertiary study in Physical Education, Health Sciences, Leisure Studies, Sports Industry, Fitness Industry. Careers in Physical Education, Sport, Recreation, Health sectors.

FOR FURTHER INFORMATION SEE:	Mr Hodgkinson or Ms Coker
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# PHYSICS

## Year 12 (Level Two) Physics

### Prerequisites

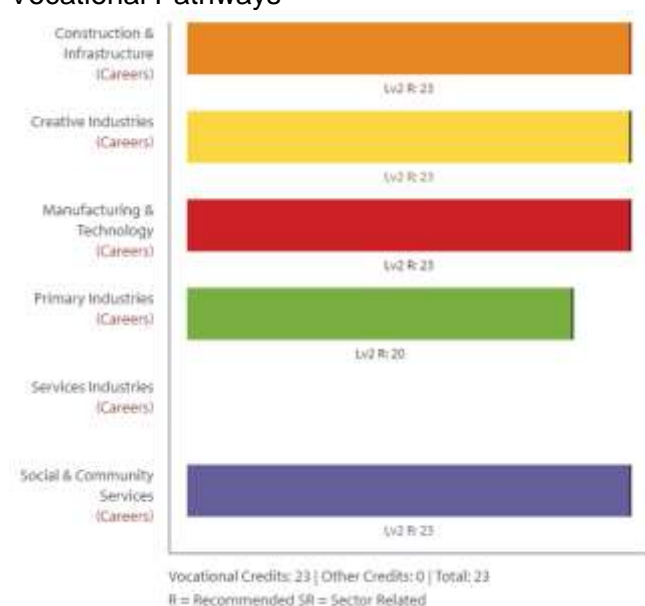
A minimum of 14 Level 1 Science credits, including at least an **achieved** grade in 'Mechanics' Level 1 Science Achievement Standard and any three of the following four Mathematics Achievement Standards – algebra, measurement, numeric reasoning, right angled triangles

### Corequisite

It is also a requirement that students take Year 12 External Mathematics.

*Students not achieving these criteria will need special dispensation from the HoF to attempt this course.*

### Vocational Pathways



### Course Outline

The main aims of the course are –

- ◆ Understanding of physics concepts and use these to explain physical processes.
- ◆ Appreciate the theories of physics behind everyday applications of physics and their impact on our lives
- ◆ Develop practical investigative skills to find relationships, trends and patterns to help explain physics concepts.

The main topics covered are –

- ◆ Mechanics - Forces, Motion, Momentum and Energy
- ◆ Light and Waves
- ◆ Electricity and Electromagnetism
- ◆ Nuclear Physics

Assessment - 23 Achievement Standard credits at Level 2	
Internal credits: 7	External credits: 16
Level 1 Literacy: 23	Level 1 Numeracy: 20
UE Reading: nil	UE Writing: nil

## Costs

Approximately \$25 for a Work Book, students will be notified at the start of the year.

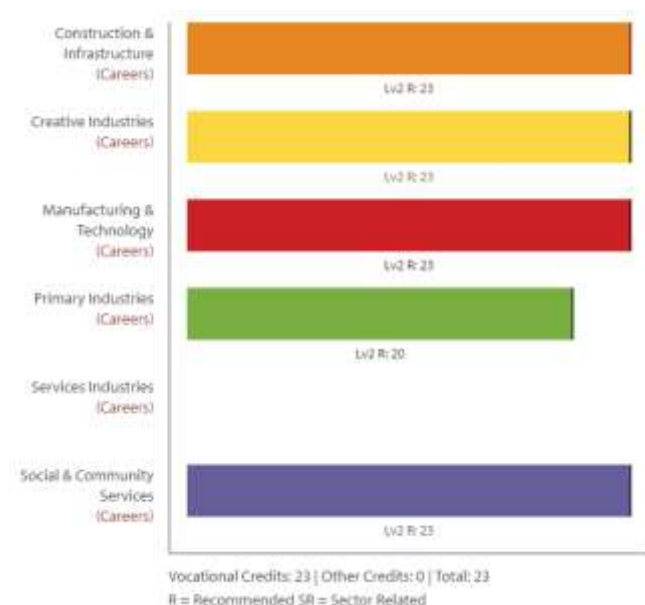
## Where does it lead?

The course is a base for NCEA Level 3 Physics. It is also a prerequisite for many tertiary courses - Physiotherapy, Radiography, Engineering, Architecture. It can also reduce apprenticeship periods significantly and provides exemptions for many Polytechnic, Trade and New Zealand Certificate courses.

## Year 13 (Level Three) Physics

### Prerequisites

At least 14 credits from Level 2 Physics Achievement Standards



### Course Outline

The main topics covered in this course are

- ◆ Rotational and Translational Motion
- ◆ AC and DC Circuits
- ◆ Light and Waves
- ◆ Atoms and Radioactivity

There is an emphasis on applying concepts to real world situations with a focus on investigative skills.

Assessment - 23 Achievement Standard credits		
Internal credits: 7	External credits: 16	
Level 1 Literacy:	Level 1 Numeracy	
UE Counting subject: YES	UE Reading: nil	UE Writing: nil

### Indicative Costs

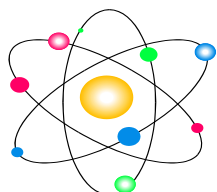
Approximately \$25 for a Work Book, students will be notified at the start of the year.

## Where does it lead?

To University study - Science, Medicine and Engineering degrees. Physics is a prerequisite for Engineering, Optometry and Architecture, and may be taken for Medicine, Food Technology etc. It also gives exemptions in many Polytechnic courses at Trade and New Zealand Certificate levels.

FOR FURTHER INFORMATION SEE:

Mr Brett



## SCIENCE

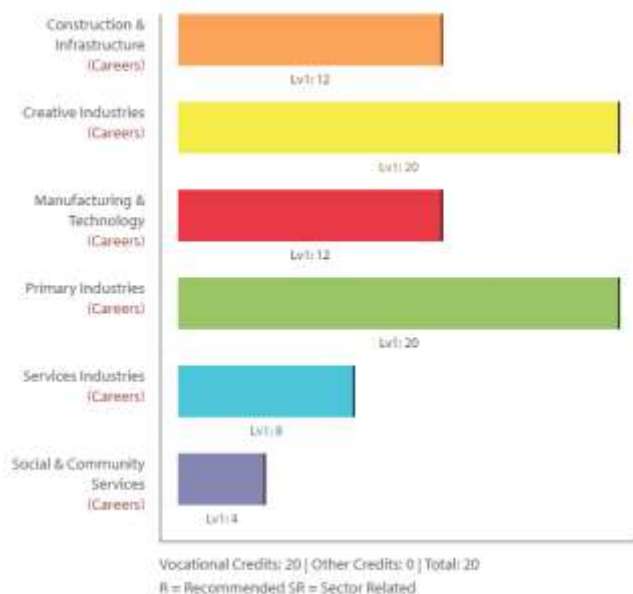
### Year 11 (Level One) Alternative Science

#### Course Outline

This course offers an opportunity for students to investigate everyday science as it applies to student's lives. It has a practical focus and is an alternative to the standard Level One Science programme. Students are often entered into this class with careful consideration from their Year 10 science teacher.

Topics include: Practical laboratory skills, investigations in science, earth science, chemicals in society.

#### Vocational Pathways



#### Assessment - 20 Achievement Standard credits at Level 1

Internal credits: 20	External credits: 0
Level 1 Literacy: 8	Level 1 Numeracy: 8

#### Where does it lead?

Science understanding is required in many careers, including hairdressing, hospitality and horticulture.

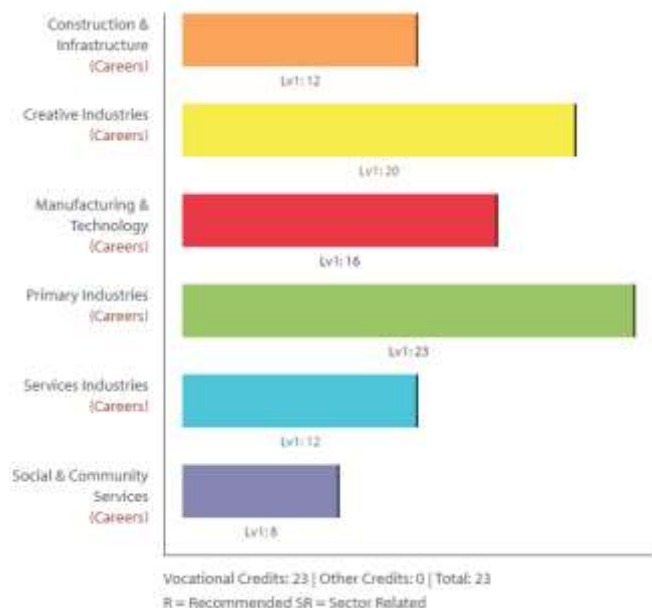


## Year 11 (Level One) Science

### Course Outline

Year 11 Science builds on the topics you have studied in Years 9 and 10. In this course you will develop an understanding of the basic facts and theories of Science and learn to apply scientific skills and attitudes to contexts relevant to the world around us.

### Vocational Pathways



### Assessment

Assessment - 24 achievement standard credits at Level 1	
Internal credits: 12	External credits: 12
Level 1 Literacy: 12	Level 1 Numeracy: 8

### Cost

Approximately \$22 for Year 11 Science workbook. Please do not pay until the price is confirmed at the start of the year.

### Where does it lead?

Science is a foundation course leading to specialist sciences at Years 12 and 13 (Biology, Chemistry and Physics). Science is also a requirement for many training and job opportunities, and is needed for so many careers that it is a compulsory subject for all Year 11 students.

FOR FURTHER INFORMATION SEE:

Mr Philip

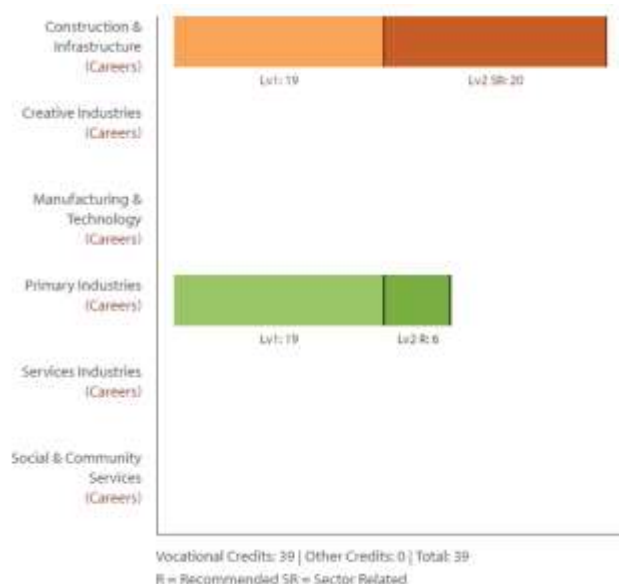


# TECHNOLOGY (Materials)

## Year 11 (Level 1) Materials Technology

### Prerequisite

Students must have completed Year 10 Materials Technology with a grade of Achieved or above.



### Course Outline

The course has a practical focus in the building, construction and associated trades areas. Students need to complete a number of practical projects in wood and metal, and complete theory modules to achieve the standards.

### Assessment

Students taking this course will work towards attaining their 'National Certificate in Building and Construction and Allied Trades' at Level 1. The course is promoted and approved by the Building and Construction Industry Training Organisation.

Assessment - Up to 33 Unit Standard credits at Level 1	
Internal credits: up to 33	External credits: 0
Level 1 Literacy: nil	Level 1 Numeracy: nil

### Costs

Students will incur material costs, estimated at \$150 for the year, which will depend on the materials chosen and projects undertaken. Please note that 50% of these fees must be paid by the end of Term One, with 100% to be paid in full by the end of Term Two.

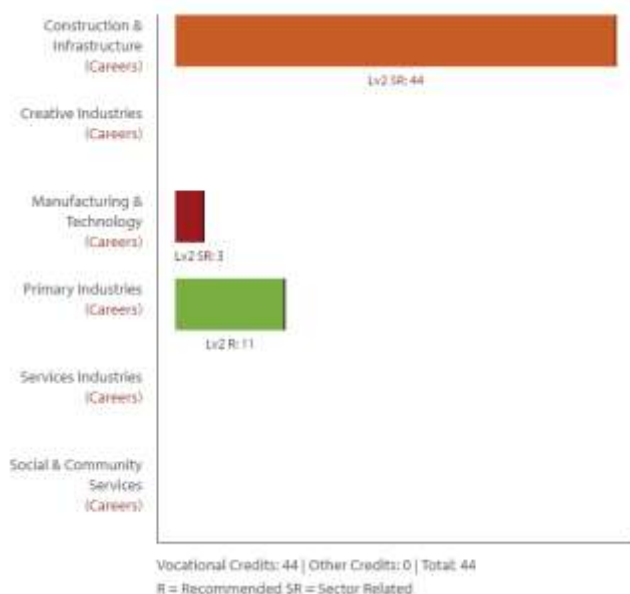
### Where does it lead?

To Year 12, and then into Year 13 with units towards Level 3. Pathway in to all metal trades, fitting/turning, welding, panel beating, plumbing, irrigation, motor trades, production engineering, farming, building, boat building, conservation and restoration work, civil engineering, electrical work, joinery, cabinet making, interior design, building inspection, architecture and teaching.

## Year 12 (Level 2) Materials Technology

### Prerequisite

Students must have completed the Year 11 NCEA Level 1 Materials Technology course described above.



### Course Outline

Students taking this course will work towards attaining their 'National Certificate in Building and Construction and Allied Trades' at a Level 2 and selected units towards Level 3. The course has a practical focus in the building, construction and associated trades areas. Students need to complete a number of practical projects in wood and metal, and complete theory modules to achieve their standards.

Assessment - up to 24 Unit Standard credits at Level 2	
Internal credits: up to 24	External credits: 0
Level 1 Literacy: nil	Level 1 Numeracy: nil

Extra trade specific unit standards may be offered that require working with local tradesmen.

### Costs

Students will incur material costs, estimated at \$150 for the year, which will depend on the materials chosen and projects undertaken. Please note that 50% of these fees must be paid by the end of Term One, with 100% to be paid in full by the end of Term Two.

### Where does it lead?

Students can continue in Year 13 with units toward their Level 3 component. A suitable pathway to all metal trades, fitting/turning, welding, panel beating, plumbing, irrigation, motor trades, production engineering, farming, building, boat building, conservation and restoration work, civil engineering, electrical work, joinery, cabinet making, interior design, building inspection, architecture and teaching.

## **Year 13 (Level 3) Materials Technology**

### **Prerequisite**

Students must have completed the Year 12 NCEA Level 1 Materials Technology course described above.

### **Course Outline**

Students taking this course will work towards attaining their 'National Certificate in Building and Construction and Allied Trades' at a Level 3. This course involves completing pre-trade unit standards and will assist any student thinking of engaging in a trade. The course has a practical focus in the building, construction and associated trades areas. Students need to complete a number of practical projects in wood and metal, and complete theory modules to achieve their standards.

### **Assessment**

Students taking this course will work towards attaining their 'National Certificate in Building and Construction' at Level 3. The course is promoted and approved by the Building and Construction Industry Training Organisation.

<b>Assessment - up to 24 Unit Standard credits at Level 3</b>		
Internal credits: 24	External credits: 0	
UE Counting subject: No	UE Reading nil	UE Writing: nil

Extra trade specific unit standards are offered that require working with tradesmen in the community.

### **Costs**

Students will incur material costs, estimated at \$150 for the year, which will depend on the materials chosen and projects undertaken. Please note that 50% of these fees must be paid by the end of Term One with 100% to be paid in full by the end of Term Two.

### **Where does it lead?**

By the end of the year students may attain their Level 3 component in the 'National Certificate in Building and Construction and Allied Trades'. Further training and job opportunities in the Building and Construction industries and all trades associated with it, along with the following professions: all metal trades, fitting/turning, welding, panel beating, plumbing, irrigation, motor trades, production engineering, farming, boat building, conservation and restoration work, civil engineering, electrical work, joinery, cabinet making, interior design, building inspection, architecture and teaching.

<b>FOR FURTHER INFORMATION SEE:</b>
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<b>Mr Jenkins</b>
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# TOURISM

## Tourism – Year 12 & Year 13 (Level 2 and 3)

### Prerequisites

There are no pre-requisites for this course but literacy skills are essential. Students wishing to complete the full certificate as outlined below will need 8 Level 1 Numeracy and 6 Level 2 Literacy credits.

### Vocational Pathways



### Course Outline

Level 2 Tourism covers the five compulsory core elements of the National Certificate in Travel and Tourism. If time allows, extra credits may be taken in this year.

Level 3 Tourism completes the National Certificate for students who have already completed the Year 12 course.

Students can also choose to just follow one year of the course either at Year 12 or Year 13.

### Assessment

Level 2 Tourism Assessment - minimum 22 Unit Standard credits at Level 2			
Internal credits: 22		External credits: 0	
Level 1 Literacy: nil		Level 1 Numeracy: nil	

### Assessment

Level 3 Tourism Assessment - 21 Unit Standard credits at Level 3.			
Internal credits: at least 19		External credits:	
UE counting subject: No:		UE Reading: nil	UE Writing: nil

### Costs

This course is an industry standards based course and as such qualifies for STAR funding. This funding is used to cover 50% of course costs and workbooks for students, with the balance \$60 being paid by the student.

### Where can it lead?

There are a range of tertiary courses available in Travel and Tourism through Polytechnics and private providers such as Queenstown Resort College. The National Certificate is industry based and as such is recognised by employers within the industry. Possible careers in Travel and Tourism include flight attendants, tour guides, travel agent, hotel management and event organising.

**FOR FURTHER INFORMATION SEE:**

**Mr Parsons**



## VISUAL ARTS

### Year 11 (Level One) Visual Arts

#### Introduction

Students will develop and extend their visual art skills by studying arts and art works and producing personal work in two art areas, with a choice from painting, printmaking, design, or photography.

#### Prerequisites

Achieved grades in two or more Visual Art units at Year 10 or by negotiation with Ms Close.

#### Vocational Pathways



#### Course Outline

Students will work in two areas of their choice – exploring subjects through a combination of Painting, Printmaking, Photography (Darkroom and Digital techniques), or Design. For example you may choose to do Painting and Printmaking or Photography and Design – the choice of areas will be in consultation with your teacher. You will develop an understanding of media, techniques, and composition, and from this produce your own personal work.

#### Assessment

Assessment - 22 Achievement Standard credits at Level 1	
Internal credits: 10	External credits: 12
Level 1 Literacy: nil	Level 1 Numeracy: nil

### Cost

\$50. Please note 50% of this cost must be paid by the end of Term One with 100% paid in full by the end of Term Two.

### Where does it lead?

This course leads to Level 2 Visual Art.

Visual Art can lead to careers in a diverse range of professions – see your Art teacher or search Art careers online.

## Year 12 (Level Two) Visual Arts

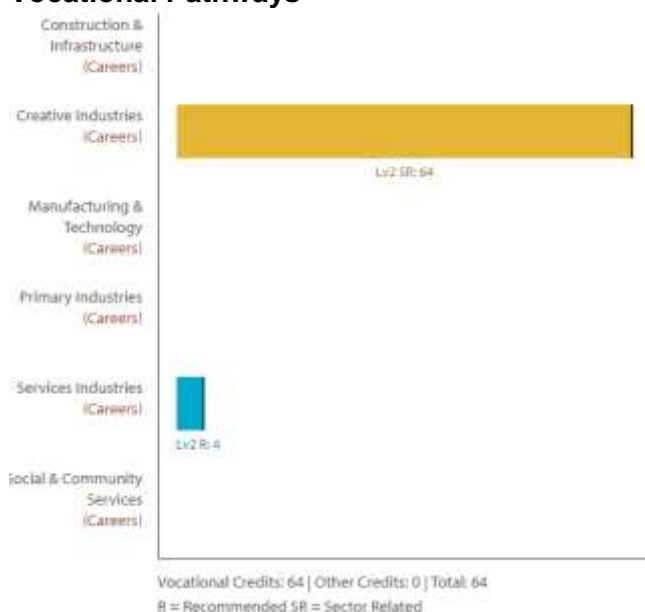
### Introduction

Students will generate and develop ideas for original personal work from a choice of painting, photography, printmaking, sculpture or design by extending their knowledge and understanding of artists and artwork.

### Prerequisites

Gained minimum of 10 credits in Level 1 Art, or by negotiation with Ms Close.

### Vocational Pathways



### Course Outline

Students can select their course choosing either a completely Internally assessed course working in two to five of the following art areas (choose from Painting, Photography, Design, Printmaking or Sculpture), or work in one area only and complete a folio board for external assessment. The External folio provides opportunity for course endorsement.

### Assessment

Students can select credits from Internal and/or External Achievement Standards. A maximum of 20 credits is available. For course endorsement the External Achievement Standard must be selected.

Assessment - 20 Achievement Standard credits at Level 2	
Internal credits: 20 or 8	External credits: 0 or 12
Level 1 Literacy: 4	Level 1 Numeracy: 0
UE Reading: nil	UE Writing: nil

### Cost

\$55. Please note 50% of this cost must be paid by the end of Term One with 100% paid in full by the end of Term Two.

\*Photography \$80 - Please note 50% of this cost must be paid by the end of Term One with 100% paid in full by the end of Term Two.

### Where does it lead?

To Level 3 Visual Art.

Visual Art can lead to careers as diverse as Architecture, Florist or Underwater Photography. Search for other Art careers online.

## Year 13 (Level 3 and Scholarship) Visual Arts

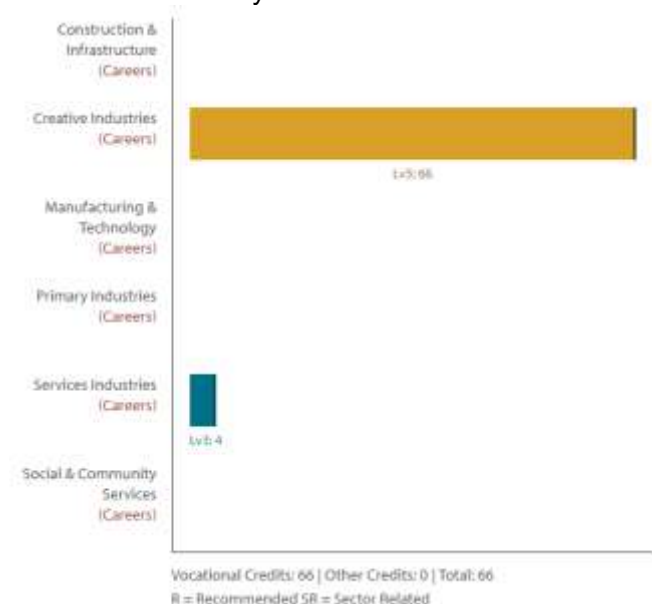
### Introduction

Students will produce artwork in a chosen field (painting, design, printmaking photography or sculpture). The student will incorporate research and analysis of recent and established NZ and international arts into their original work. Students may choose a maximum of two art fields.

### Prerequisites

12 credits in Level 2 Visual Art, or by negotiation with Ms Close. For photography a knowledge of photoshop programmes and access to a reliable digital camera.

### Vocational Pathways



### Course Outline

At this year level students select the area they wish to work in for the year: Painting, Design, Printmaking, Photography or Sculpture. Students can choose the subject matter for the External folio depending on their interest and ability.

A maximum of two art areas can be chosen – as two subjects.

In Design students will research, develop and present ideas in visual communication or illustration, through drawing and digital manipulation, based on existing design practice culminating in a three panel Level 3 External folio.

In Painting the aims are to develop an awareness of different approaches to drawing and painting. The emphasis is on contemporary work. The second half of the year is spent on producing work for the three panel Level 3 External folio.

In Sculpture skills are developed in creative problem solving developing ideas in three-dimensional form. You will be investigating International and New Zealand artists. This course will allow you to



explore a range of sculptural practices, which include installation, time based art, and object art for the three panel Level 3 External folio.

In Printmaking different printmaking techniques are explored and developed by investigating International and New Zealand artists. A range of printmaking techniques must be presented on the three panel External Level 3 folio.

In Photography students will have the opportunity to develop their skills digitally manipulating images in Photoshop or Gimp software. Investigation of International and New Zealand artists will enable the development of ideas to be presented on the three panel Level 3 External folio.

<b>Assessment - 22 Achievement Standard credits at Level 3</b>		
Internal credits: 8	External credits: 14	
UE Counting subject: YES	UE Reading nil	UE Writing: nil

### **Cost**

\$60 for Painting, Sculpture, Design, Printmaking. \$80 for Photography. Please note 50% of this cost must be paid by the end of Term One with 100% paid in full by the end of Term Two.

### **Where does it lead?**

This course can lead students in a number of directions. With Level 3 Art, students may go on to University or Polytechnic for degree or diploma courses. A career as an artist, or as an architect, designer, teacher, interior designer, hairdresser, 3D animator, video game designer, tattoo artist, florist, comic book artist, photographer, photojournalist - and many more areas require art or design qualifications or experience.

<b>FOR FURTHER INFORMATION SEE:</b>	<b>Ms Close</b>
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# WORK LITERACY

## Year 12 (Level 2) Work Literacy

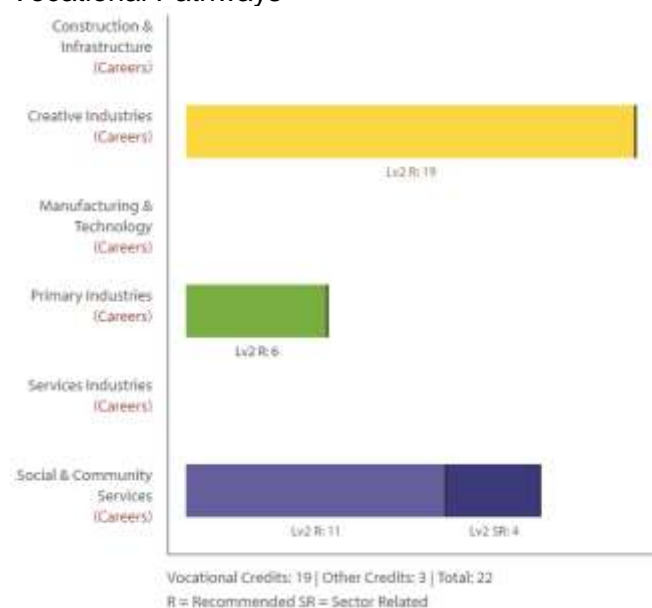
### Introduction

Work Literacy is a Year 12 programme designed to prepare students to be independent and successful young adults. It is designed for students who would struggle with a traditional Level 2 English course.

### Prerequisites

A minimum of ten Level One NCEA literacy credits.

### Vocational Pathways



### Course Outline

This course consists of predominantly Level Two NCEA Unit Standards and one Level Two Achievement Standard. The course covers between 20 and 24 credits.

Assessment - 16-20 Unit Standard credits 4 Achievement Standard credits	
Internal credits: 20 - 24	External credits: 0
Level 1 Literacy: Nil	Level 1 Numeracy: Nil

### Costs

Nil.

### Where will it lead?

Students will have a better understanding of: problem solving; community support agencies; planning for the future; being assertive; the implications of independent living; rights and responsibilities of owning a motor vehicle; making informed decisions about buying goods and services.

**FOR FURTHER INFORMATION SEE:**

**Ms Inglis**