



SENIOR COURSE HANDBOOK

2012

CONTENTS

Welcome	2
General Information / who to talk to	3-9
Accounting	9
Biology	11
Chemistry	12
Classics	14
Computing	14
Economics	16
English	18
English for Speakers of other Languages	20
Gateway and STAR	21
Geography	22
Graphics	23
History	24
Home Economics/Hospitality & Catering	26
Horticulture	27
International Languages	28
Mathematics	28
Music	32
Outdoor Education	34
Physical Education	35
Physics	37
Science	39
Technology	40
Text Management	41
Tourism	42
Visual Arts	43

WELCOME

to the Cromwell College Senior School

We hope that next year will be an enjoyable, rewarding one, during which you will achieve not only your academic goals, but also social, sporting and cultural successes. Most senior students become involved in activities around the College, as leaders or helpers, participants or supporters, and they play a key role in building up enthusiasm and school spirit.

The aim of this booklet is to help you plan and select your course for the next year and beyond. It contains information on all subjects currently offered at Years 11, 12 and 13. Every effort will be made to provide a course of study that meets the needs of each student, and consultation and advice on courses will be given. The College reserves the right to alter course content and assessment as best befits the needs of the school.

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 2012 –

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

You need to know these factors, among others:

- which subjects are compulsory and which are optional
- prerequisites
- subject requirements for particular courses/occupations beyond school
- a sensible range of subjects that lead all the way through to Year 13 if you are thinking about going to Polytechnic or University.
- the dates by when decisions must be made

GENERAL INFORMATION

- 1 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 composite classes, classes through Otago-Net video conferencing or Correspondence School courses, but this school's goal is to have students taught here, wherever feasible.
- 2 Some courses will involve combinations of Years 12 and 13 subjects.
- 3 You may select subjects at a lower level if you want to improve earlier results by repeating the work, or if you need certain prerequisites, or feel that work at your new year level is too difficult.
- 4 Applications will also be considered for students to pursue a course of study at a higher level, e.g. a Year 11 student doing Year 12 work.
- 5 Some courses lead to Pitmans and other qualifications, but most students will be expected to enter NCEA at each year level. NCEA results are attained by a variety of methods involving internal written assessment, practical assessments and external examinations.
- 6 A number of courses have costs associated with them. These may be for materials 'consumed' by the student or for field trips. Note, Outdoor Education, Yr 11 PE 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.
- 7 Students will need to have demonstrated previous commitment to sound work habits before the school will allow them to do distance learning courses.

CHOOSING SUBJECTS

In today's working environment there are few certainties. Most people will change their jobs a number of times. Courses at school will provide you with skills and knowledge for specific jobs and they will also teach you the life long attributes of how to learn and participate in society.

Because of the uncertainty of jobs it is best to **keep as broad a range of subjects** as possible for as long as possible. Some subjects are compulsory – you **MUST** do them. For the others, you should consider doing subjects that you are good at or enjoy, for you are more likely to have success.

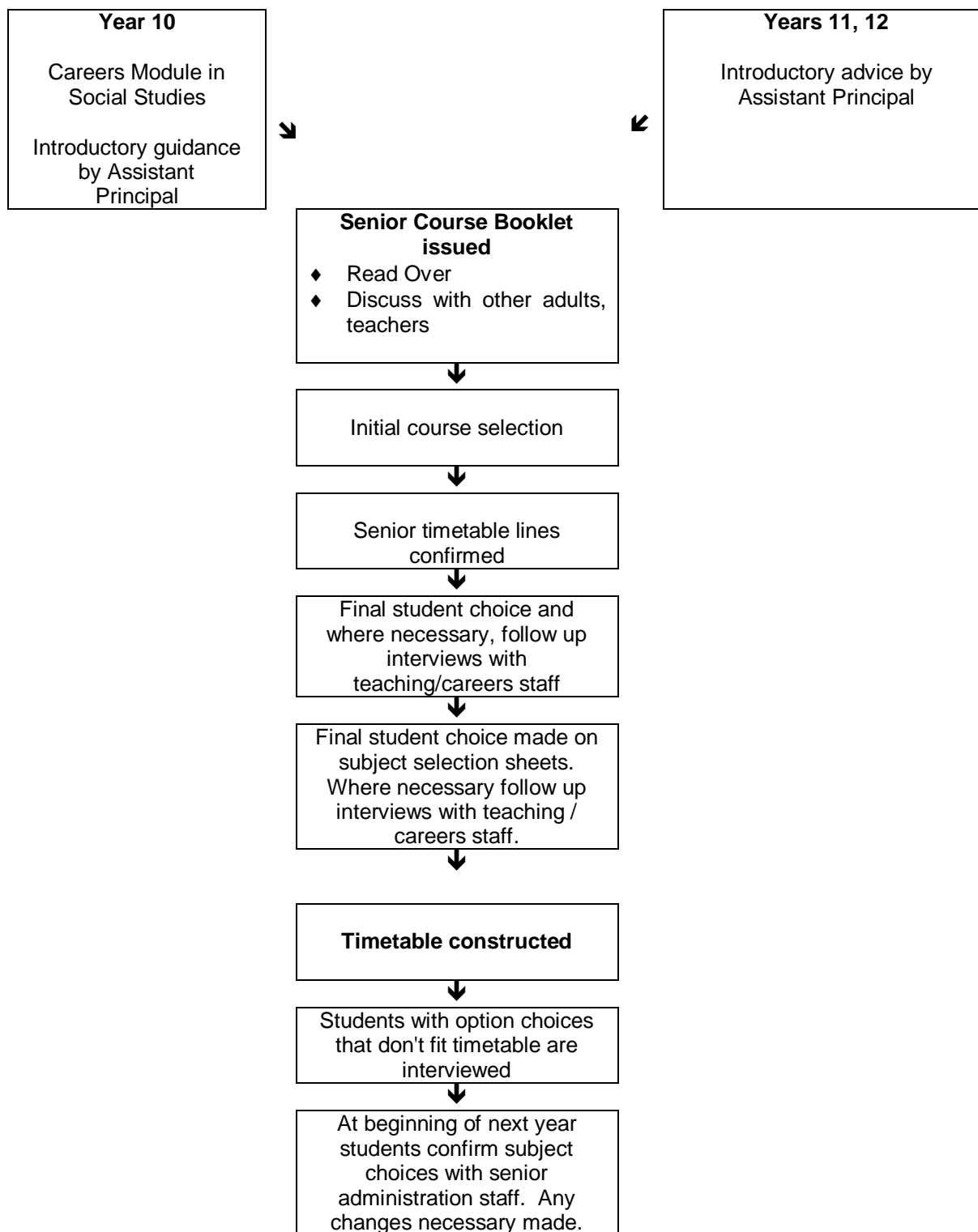
For those thinking about going on to University or Polytechnic from Year 13, you need to consider carefully what your Year 11 and 12 subjects will be. It is difficult to pick up a subject at Year 13 level, and in many cases you must take them at lower levels and attain certain grades (prerequisites).

Many occupations and course entry requirements have a minimum standard for entry. Just because you get the required minimum it will not guarantee entry, as there may be many more applicants than positions. Aim for the best results across as many subjects as you can.

SUBJECT SELECTION

Students in Year 10 will do a Careers Module in Social Studies. 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 decision making.

FLOW CHART



ASSESSMENT AT CROMWELL COLLEGE

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 desire more detailed knowledge about the NCEA and the NZQA (New Zealand Qualifications Authority) please visit the website at www.nzqa.govt.nz.

Each subject at Cromwell College has a range of assessments. An assessment could be a project, an in-class test, a speech, an observation by the teacher or an end-of-year test or examination. Each assessment is worth a certain number of credits. These usually range from two to six credits. Most courses at Cromwell College have a total credit availability of between 18 and 24 credits. More details about the credits available can be found in the subject specific pages of this handbook.

NCEA is New Zealand's national qualification for school learners. It is recognised by universities and other tertiary providers in New Zealand. This means that the NCEA will be recognised overseas. NCEA is one of many qualifications on the National Qualifications Framework (NQF).

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

Unit Standards

Are always given as school-based or internal assessments. There are no end-of-year examinations for unit standards. 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. This is called a "reassessment".

Achievement Standards

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. "Reassessments" are available for some Achievement Standards but not for all.

For a student to be awarded NCEA Level 1 they must successfully complete 80 credits of work. These credits can come from any level and they may come from Unit Standards, Achievement Standards or a combination of both. Included in those 80 credits must be 10 credits designated as "literacy" credits and 10 credits designated as "numeracy" credits.

For a student to be awarded NCEA Level 2 they must achieve 80 credits, of which a minimum of 60 credits is at level 2 or above, from anywhere on the National Qualifications Framework (NQF). There are no literacy or numeracy requirements for this qualification.

For a student to be awarded NCEA Level 3 they must achieve 80 credits, of which a minimum of 60 credits is at level 3 or above. There are no literacy or numeracy requirements for this qualification.

Endorsement

At Levels 1, 2 and 3 **NCEA certificates** can have an Endorsement with Merit or Excellence. For a merit endorsement you must obtain 50 merit credits or better at the level of the award. For excellence endorsement you must obtain 50 excellence credits or better at the level of the award. Merits and excellence can only come from Achievement Standards. We expect many of our students to aim for these endorsements.

Students will be able to have their strengths in individual subjects recognised with a course endorsement at Merit or Excellence. Students gain an endorsement in a **subject** where they achieve:

1. 14 or more credits at Merit or Excellence at their lower level that supports the endorsement
2. At least 3 credits from externally assessed and 3 credits from internally assessed standards (does not apply in Physical Education and Level 3 Visual Art courses).
3. Counting credits come in a single school year.

University Entrance

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

- ◆ a minimum of 42 credits at level 3 or higher on the National Qualifications Framework, including a minimum of 14 credits at level 3 or higher in each of two subjects from an approved subject list, with a further 14 credits at level 3 or higher taken from no more than two additional domains on the National Qualifications Framework of approved subjects. Students looking at University Entrance will be advised if their course choice does not give sufficient options for attaining University Entrance
- ◆ a minimum of 14 credits at level 1 or higher in Mathematics or Pangarau on the National Qualifications Framework
- ◆ a minimum of 8 credits at level 2 or higher in English or Te Reo Maori; 4 credits must be in Reading and 4 credits must be in Writing.

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.

New Zealand Scholarship

New Zealand Scholarship is designed to extend the best secondary students and enable top scholars to be identified and acknowledged. It is expected that scholarship students enter one or more scholarship standard assessment as well as their level 3 assessments. 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.

The content assessed for Scholarship is the same as that covered for Level 3 Achievement Standards. It is expected that Scholarship candidates will have completed a full year of level 3 studies at a secondary school.

Scholarships can be awarded in each subject, and results across a number of subjects. More information is on NZQA website.

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 for NCEA or University Entrance purposes.

RECORD OF ACHIEVEMENT

All credits you gain will go on your Record of Achievement. This is a qualifications data base for each student. Credits gained at school, polytechnic and on-site training for registered courses will be recorded on your Record of Achievement.

COURSES POTENTIALLY AVAILABLE

Year 11

- ◆ English (compulsory)
- ◆ Mathematics or Applied Mathematics (compulsory)
- ◆ Science or Alternative Science (compulsory)

Accounting	Computing [^]	Economics
Geography	Graphics	History
Home Economics	Materials Technology	Music
Physical Education	Text Management	Visual Art
Languages (e.g. French, Maori)**		

All Year 11 students are required to take six courses.

Year 12

- ◆ English or Fully Internal English (compulsory)

Accounting	Biology	Chemistry
Classics	Computing	Economics
Geography	Graphics	History
Hospitality and Catering	Mathematics	Applied Mathematics
Materials Technology	Outdoor Education	Physical Education
Physics	Text Management	Tourism
Visual Art	Gateway	Horticulture#
Languages**	Music**	

All Year 12 students are required to take six courses.
Distance learning in other courses may be available.

Year 13

Accounting	Biology	Chemistry
Computing	Economics	English
Alternative English	Geography	History
Hospitality and Catering	Mathematics (Statistics)	Mathematics (Calculus)
Materials Technology	Outdoor Education	Physical Education
Physics	Text Management	Tourism
Visual Art Design	Visual Art Painting	Visual Art Photography
Visual Art Sculpture	Languages **	Gateway

IELTS – for international students requiring a level of English competency for tertiary level.

All Year 13 students are required to take five or six courses.

** By correspondence

[^] Part course – contained within the SDL programme

Through Otago Polytechnic

Distance learning courses will only be available after consultation with Ms Sinclair. Students must have already demonstrated a sound ability to complete work independently to be considered for a Correspondence course or other distance learning.

INFORMATION FOR NEXT YEAR'S YEAR 11 STUDENTS

All students must study **SIX** courses, including English, Mathematics and Science. Note the SDL programme can be counted as the 'sixth' course.

For students who would have difficulty in handling five traditionally academic courses in one year, there are courses available in Alternative Science, Applied Mathematics and an English course that goes 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 which count towards the final NCEA results. Nearly all courses have internal (Cromwell College) examinations/ assessments in June/July and August/September.

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.

INFORMATION FOR NEXT YEAR'S YEAR 12 STUDENTS

All students must study **SIX** courses, including 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 both levels.

The benefits of doing a Year 12 year are obvious, and it is becoming more essential in helping to obtain worthwhile employment, in gaining exemptions in a range of tertiary education courses at Polytechnic or Technical Institutes, and in leading to entry to Year 13, and hence qualifying for entry into University.

Courses in Year 12 Fully Internal English and Year 12 Applied Mathematics are available for those who find the full academic courses challenging.

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.

INFORMATION FOR NEXT YEAR'S YEAR 13 STUDENTS

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.

Year 12 (Level Two) Accounting

Corequisites

None, but Economics, English and Mathematics complement it.

Course Outline

An in depth look at the accounting process concentrating mainly on the sole trader. Topics covered include bank reconciliations, inventories, business ownership, manufacturing, correction of errors, debtors, analysis and interpretation, balance day adjustments, accompanied by an introduction to the theory of accounting.

Available in 2012

Internal Standards 11 credits

External (exam) Standards 13 credits

Costs

\$30 for Work Books

Year 13 (Level Three) Accounting

Prerequisites

Year 12 Accounting, 12 credits or better.

Course Outline

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

Assessment

INTERNALLY ASSESSED ACHIEVEMENT STANDARD

Standard	Level	Credits	Title
90504 (3.5)	3	5	Prepare a report which analyses and interprets a company's financial report for external users

EXTERNALLY ASSESSED ACHIEVEMENT STANDARDS

Standard	Level	Credits	Title
90500 (3.1)	3	4	Describe and apply the conceptual basis of accounting in context for business entities
90501 (3.2)	3	3	Process financial information for partnerships and/or companies
90503 (3.4)	3	6	Report financial information for partnerships and/or companies
90505 (3.6)	3	3	Explain and prepare information for management decision making

Where does it lead?

Tertiary qualifications in: business studies, commerce, computing and law. Careers include management, banking, insurance, valuation, treasury, education, statistics, agricultural servicing, economists, journalism, chartered accounting, share broking, foreign exchange and money markets.

FOR FURTHER INFORMATION SEE:

Ms Kane



BIOLOGY

Year 12 (Level Two) Biology

Prerequisites

To achieve entry into this course for 2012, students must attain 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 these courses on a provisional basis.

Course Outline

- Ecology: the integration of plants and animals and their environments.
- Plant and animal structure and function.
- Cell structure and function.
- Genetics and evolution

Assessment

Assessment will be based upon NCEA Level 2 Achievement Standards in Biology. Total number Level 2 Biology credits offered = 26.

Costs

One day of field work. Costs will be kept to a minimum.

Where does it lead?

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

Year 13 (Level Three) Biology

Prerequisites

To achieve entry into this course for 2012, 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 upon which assessment will be based on:

- ◆ Animal behaviour and plant responses in relation to biotic and abiotic environmental factors.
- ◆ Plant and animal investigation
- ◆ Genetics and evolution.
- ◆ Contemporary techniques in molecular biology or biotechnology.
- ◆ Contemporary biological issues
- ◆ Carrying out an investigation

Assessment

Assessment will be based upon NCEA Level 3 Achievement Standards in Biology. Total number Level 3 Biology credits offered = 24.

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.

Costs

A course revision book is usually compulsory for this course at a cost of approximately \$18, as well as a field trip. The trip may be 'local' in nature or a three day trip to Portobello. Costs for these will be communicated to students at the start of the academic year.

FOR FURTHER INFORMATION SEE:

Mrs Jackson



CHEMISTRY

Year 12 (Level Two) Chemistry

Prerequisites

To achieve entry into this course for 2012 students must attain 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
Science 1.2	Research, with direction, how science and technology are related
Science 1.4	Describe aspects of Chemistry
Maths 1.1	Number
Maths 1.2	Algebra

It is preferable that students also take Year 12 Mathematics. Must have 7, Level one Maths credits, 3, Number Achievement Standards and 4, Algebra 1.1 Achievement Standards.

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

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:

- ◆ What is Chemistry?
- ◆ Quantitative Chemistry
- ◆ Atomic Structure and Bonding
- ◆ Organic Chemistry
- ◆ Chemical Reactions
- ◆ Redox Chemistry

Assessment

Assessment will be based upon NCEA Level 2 Chemistry Achievement Standards, 3 internal standards with 10 credits, 3 external standards with 13 credits. Total 23 credits.

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.

Course Outline

- Atomic Structure and Bonding, 5 credits
- Investigation, 4 credits (internal)
- Organic Chemistry, 5 credits
- Redox Titration, 2 credits (internal)
- Aqueous Chemistry and Equilibrium, 5 credits
- Oxidation and Reduction, 3 credits

Assessment

NCEA Level 3 Chemistry Achievement Standards.

Total credits 24 (6 internal and 18 external)

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. It will provide an opportunity to examine the impact of chemistry on the every day world, and especially New Zealand.

Chemistry is a basic science, 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, 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 Pearson



CLASSICS

Year 12 (Level Two) Classics

Prerequisites

No prerequisites

Course Outline

This course spans a variety of topics from the history, philosophy, literature, society and the art and architecture of ancient Greece and Rome.

The basis of Western culture can be found in the civilisations of Ancient Greece and Rome. Greek democracy and education, along with Roman law and civilisation, are the basis on which today's Western world has grown. Our language itself, in both its everyday and its scientific use, is heavily reliant on Greek and Latin origins. By comparing our ways of governing and living today with these roots, light can be thrown on our present civilisation.

In NCEA Level Two, five topics are taught from the following:

1. Homer
2. Greek Tragedy
3. Athenian democracy in the age of Pericles
4. Roman social life in the age of Caesar and Cicero
5. Classical Mythology
6. Roman comedy
7. Architecture and sculpture of fifth century Athens
8. Roman politics in the age of Caesar and Cicero
9. Pompeii and Herculaneum

Assessment

The course offers a total of 24 NCEA Level Two credits. 15 of the credits are achieved in an external exam and 9 credits are achieved internally.

FOR FURTHER INFORMATION SEE:

Mr Abercrombie



COMPUTING

Year 11 (Level One) Computer Studies

Prerequisites

Open to all students in Year 11 who have an ability to maintain independent work and study habits.

Course Outline

This is a part year course that will most likely run with the SDL programme in Year 11. Students will explore the use of the computer as a digital media. It will form the foundations for Level 2 Computing. Achievement Standards based, covering some aspects of information management and design, print and web media and some simple programming. Up to 18 credits available, all internal.

Course Costs

You will be required to purchase a 2Gb USB thumb drive.

Year 12 (Level Two) Computer Studies

Prerequisites

Open to all students in Year 12 who have an ability to maintain independent work and study habits.

Course Outline

This full year course is designed for any student who wishes to advance their knowledge in computing. It is an academic course with an emphasis on problem solving. The course will be taught in the computer suite. Students work towards the National Certificate in Computing, Level 2. This course does not focus on design or text and information management.

Assessment

The following unit standards give you a guide as to what the course will cover. The actual standards will be confirmed at the start of the year.

Standard	Level	Credits	Title
2780/2781	1 & 2	6	Manage and protect computer data. Knowledge of a personal computer system.
2790	2	3	Use and maintain personal computer peripherals.
5940	2	3	Use computer technology to present a computer topic.
2784	2	3	Demonstrate knowledge of and produce computer spreadsheets using base functions.
25662	2	3	Use digital communication technologies.
5943	2	3	Investigate and operate leisure-orientated computer applications (time permitting)

Total number of credits 18 at Level 2 and 3 at Level 1. All units are internally assessed.

In order to qualify for the National Certificate in Computing – Level 2, five credits are required from the Business Information Processing Domain. Suggested Unit Standard is 111, (use a word processor to process documents), Level 2, 5 credits. This is not offered as part of this course (see Mr Streeter for more information).

Course Costs

There are no additional costs associated with the course. A 2Gb USB flash drive would be helpful to have, as would your own notebook system. The notebook should come complete with Windows 7 (Professional version preferred) and Office 2010.

Where does it lead?

Career options and future study options are hugely varied. Graphics and website design, engineering, system and service support, the list is endless. Further qualifications can be sought right up to doctorate level in practically any specialist field.

Year 13 (Level Three) Computer Studies

Prerequisites

Open to Year 13 students who have completed the Year 12 Computer Studies course. No student will be allowed to attend this course unless they can provide proof of Level 2 Computer Studies work.

Course Outline

A course designed to extend those students who have a basic introductory knowledge in presentation design and spreadsheets.

Assessment

Assessment will be Unit Standards, Level 3, from the topic areas below.

Standard	Level	Credits	Title
2785	3	5	Create a computer spreadsheet to provide a solution for organisation use.
25660	3	5	Create a computer controlled project.
25661	3	3	Design and assemble an interactive media product without scripting.
2797	3	4	Demonstrate knowledge of the principles of computer networks.
25658	3	5	Create a website for a stakeholder using a dedicated web authoring tool.

Total credits available 22. All units are internally assessed.

Any student who wishes to complete the Level 3 National Certificate in Computing is required to have passed the two compulsory papers (2780 Level 1 and 2781 Level 2). Also required are five credits from the Business Information Processing Domain. A suggested Unit Standard is 112, (Produce information using word processing functions), Level 3, 5 credits. This is not offered as part of this course (see Mr Streeter for more information).

Course Costs

There are no additional costs associated with the course. A 2Gb USB flash drive would be helpful to have, as would your own notebook system. The notebook should come complete with Windows 7 (Professional version preferred) and Office 2010.

Where does it lead?

Career options and future study options are hugely varied. Graphics and website design, engineering, system and service support, the list is endless. Further qualifications can be sought right up to doctorate level in practically any specialist field.

FOR FURTHER INFORMATION SEE:

Mrs Geneblaza



ECONOMICS

Introduction

Economics provides us with a toolkit to make informed choices and better use of our scarce resources.

Economics students explore issues that directly impact their lives, such as, whether to do homework or go to a movie, extract mineral resources today or save them for the future, charge the full price or subsidise education to make it more accessible to students.

Students identify and become familiar with:

- Concepts and methods used to efficiently allocate scarce resources, produce goods and services and distribute these goods and services amongst individuals and communities.
- Models (both macro and micro) to simplify and/or explain the real world and make predictions about it.
- Tools to evaluate economic decisions and assumptions made by others (in individual, business, governmental and global contexts) and to make informed, efficient, equitable decisions for the future.

Economics puts students' hands on the levers of power; the skills of economics are highly valued in the international job market.

Year 11 (Level One) Economics

Prerequisites

None.

Assessment

A full academic course. All credits are Achievement Standards.

Available in 2012:

Internal Standards 12 credits

External (exam) Standards 12 credits

Costs

Workbook costs \$25, payment required before issue.

Year 12 (Level Two) Economics

Year 12 Economics is a comprehensive one year course and does not require the student to have previously studied Economics. The prescription builds on the basic economic concepts and aims to give students a better understanding of the role of government in a mixed economy, and of the vital importance of international trade to New Zealand's economy.

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
- Economic Growth
- Trade
- Unemployment

Assessment

Available in 2012:

Internal standards 14 credits

External (exam) standards 12 credits

Costs - \$30 for workbook, payment required before issue.

Year 13 (Level Three) Economics

The aim of Level 3 Economics is to enable students to attain a level of economic literacy and understanding which would allow them to develop a continuing and critical interest in contemporary economic issues. Skills are developed involving the interpretation and presentation of economic data and argument in a clear, coherent manner.

The three topics covered are:

- Resource Allocation in the Market Place
- Allocation via the Public Sector
- Aggregate Economic Activity and Policy

Assessment

2 Internal Unit Standards total of 10 credits.

Externally Assessed Achievement Standards

Standard	Level	Credits	Title
90629 (3.1)	3	4	Understand the concepts of demand supply
90630 (3.2)	3	5	Describe and illustrate the market and allocative efficiency
90631 (3.3)	3	4	Describe and illustrate resource allocation via the public sector
90632 (3.4)	3	6	Describe and illustrate aggregate economic activity

Costs

\$32 for two workbooks, payment required before issue.



FOR FURTHER INFORMATION SEE:

Ms Kane

ENGLISH

Year 11 (Level One) English

Course Outline

Students will work towards achieving their National Certificate of Educational Achievement, principally the literacy components.

Assessment

Students' work will be assessed both internally and externally. They will be able to receive a maximum of 28 Achievement Standard credits during the year.

External Assessment

Standard	Level	Credits	Title
1.1	1	4	Understanding of Studied Written Texts.
1.2	1	4	Understanding of a Studied Visual Text.
1.3	1	4	Unfamiliar Texts.

Internal Assessment

Standard	Level	Credits	Title
1.4	1	4	Produce Creative Writing.
1.5	1	4	Produce Formal Writing.
1.9	1	4	Research (Use Information Literacy Skills to Form Conclusions).

Internal Assessment (Optional)

Standard	Level	Credits	Title
1.10	1	4	Personal Response to Independently Read Texts.

Year 11 (Level One) Internally Assessed English

Course Outline

1. Students following this course will work towards gaining credits working with internally assessed Achievement Standards.
2. The class will run at the same time as the other Level 1 English class so students can move between classes if appropriate.
3. The first consideration will still be gaining Literacy requirements for NCEA Level 1.

Achievement Standards

Standard	Level	Credits	Title
1.4	1	4	Produce Creative Writing.
1.5	1	4	Produce Formal Writing.
1.8	1	4	Explain Significant Connections Across Texts.
1.9	1	4	Research
1.10	1	4	Form Personal Responses to Independently Read Texts (Wide

			Reading).
--	--	--	-----------

Total credits 20.

Year 12 (Level Two) English

Prerequisite

To work towards NCEA Level 2, students *must* have gained at least **ten literacy credit points** at Level 1 in reading and writing.

Course Outline

Students at Year 12 work towards achieving NCEA Level 2 following the course outlined below.

Internal Assessment

Standard	Level	Credits	Title
90375 (2.1)	2	3	Produce crafted and developed creative writing
90376 (2.2)	2	3	Produce crafted and developed formal transactional writing
90374 (2.7)	2	3	Deliver a presentation using oral and visual language techniques
90381 (2.8)	2	3	Investigate a language or literature topic and present information in written form

External Assessment

Standard	Level	Credits	Title
90377 (2.3)	2	3	Read, study and analyse extended written texts
90378 (2.4)	2	3	Read, study and analyse short written texts
90379 (2.5)	2	3	View/listen to, study and analyse a visual or oral text
90380 (2.6)	2	3	Read unfamiliar texts and analyse the ideas and language features

Costs

A course book costing \$15 will be required for this course. Payment required before issue.

Where does it lead?

The course is designed to provide students with the skills to acquire employment or handle tertiary education, such as Polytechnic courses.

Year 12 (Level Two) Fully Internally Assessed English

Course Outline

Students will learn to develop their written, spoken, listening and viewing skills at a Level 2 standard. Level 2 reading and writing credits are required for entrance to University.

Achievement Standards

Standard	Level	Credits	Title
8825	2	5	Transactional Written Texts in Complex Forms
12419	2	4	Read Poetic Written Texts Closely
12420	2	4	Read Written Transactional Texts Closely
12423	2	4	Read a Range of Static Images Closely
12905	2	4	Read a Range of Written Texts and Record the Experience
12424	2	3	Present Moving Images Combining Verbal and Visual Features

Year 13 (Level Three) English

Course Outline

This course is designed for those who wish to follow an English course at a tertiary institution, but it is also interesting and challenging for those who have a general interest in English. Students who have completed a Level 2 course in English may progress to Level 3, but this must be at the HoF's discretion.

Internal Assessment

Standard	Level	Credits	Title
90720 (3.1)	3	4	Produce an extended piece of writing in a selected style
90725 (3.6)	3	3	Construct and deliver an oral presentation
90726 (3.7)	2	3	Complete independent research on a language or literature topic and present findings in written form

External Assessment

Standard	Level	Credits	Title
90721 (3.2)	3	4	Respond critically to written text (studied)
90722 (3.3)	3	4	Respond critically to Shakespearean drama (studied)
90723 (3.4)	3	4	Respond critically to oral or visual text (studied)
90724 (3.5)	3	2	Respond critically to unfamiliar prose and poetry texts

Costs

A course book costing \$15 will be required for this course. Payment required before issue.

Where does it lead?

Traditionally, University study, but many tertiary courses of study look to Level 3 marks as prerequisites for entry.

Year 13 (Level Three) Alternative English

As many students at Year 13 level need to further develop their language skills but cannot cope with a full NCEA course at Level 3, the following course is tentatively proposed for 2012. Its viability would depend on enough students opting for this course, staffing and availability of resources. An alternative Level 3 course could contain the following Unit Standards:

Unit Standards

Standard	Level	Credits	Title
8834	3	6	Investigate a theme across a range of selected texts and evaluate the outcome of the investigation.
8835	3	6	Produce sustained transactional texts writing in a range of complex forms.
8836	3	6	Produce sustained poetic writing in a range of complex forms.
8837	3	6	Conduct a seminar using transactional oral text.
12431	3	3	Read closely and evaluate the effectiveness of moving images.

Total credits 27.

FOR FURTHER INFORMATION SEE:

Mr Hepburn

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 \$355.

FOR FURTHER INFORMATION SEE:	Ms Cuthbert
------------------------------	--------------------



GATEWAY and STAR

Gateway – a path to careers for young people.

Gateway opens a new pathway from school to the world of work. It is an opportunity to blend school study with workplace learning and experience. It provides hands on practical learning in the workplace. Learning is assessed in the workplace and counts toward NCEA qualifications.

Gateway is made available to Year 12 and Year 13 students. In exceptional circumstances Year 11 students will be considered.

Gateway gives students opportunities to try out potential careers and build links to apprenticeships and future studies.

In 2011 Gateway has had students working in the Motor, Auto Electrical, Early Childhood, Farming, Trucking, Horticulture and Hairdressing.

Please show your interest and what industry you would be interested in on your subject choice form. Only students who have shown that they are reliable will be considered for Gateway.

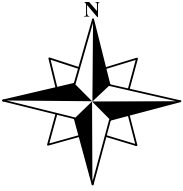
STAR - an opportunity for learning beyond the school's curriculum.

STAR is a pool of money that is granted to secondary school for students to access transition to workplace courses or tertiary training courses for senior students. This will assist 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 and Tourism, Agriculture, Automotive, Hairdressing, Computer Graphics, University Mathematics and Polytechnic Taster Courses.

STAR funded 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.

FOR FURTHER INFORMATION SEE:	Mrs Page
------------------------------	-----------------



GEOGRAPHY

Introduction

Geography is about landscapes, the natural processes that have formed it and continue to shape it. It concerns 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

Course Outline

4 Internally assessed Achievement Standards – 13 credits
3 Externally assessed Achievement Standards – 12 credits
Total 25 credits

Costs

Fieldwork is involved - expect to pay about \$30 with payment required before the trip.

Where does it lead?

NCEA Level 2 Geography

Year 12 (Level Two) Geography

Course Outline

4 Internally assessed Achievement Standards – 14 credits
3 Externally assessed Achievement Standards – 12 credits
Total 26 credits

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.

Course Outline

3 / 4 Internally assessed Achievement Standards 9 – 12 credits
3 Externally assessed Achievement Standards – 12 credits
Total credits 21 – 24

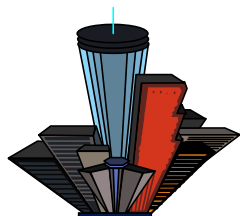
Costs

Fieldwork is involved (2 fieldtrips) expect to pay approximately \$50 in total. 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: Mrs Greenwood
--



GRAPHICS

Year 11 (Level One) Graphics

Prerequisites

This course is designed for students who have completed the Year 10 course in Graphics. There may be exceptions to this, and a student must discuss their eligibility with the Head of Faculty.

Course Outline

The content promotes a sound basis for Years 12 and 13 Graphics. 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), in understanding and using correct design language, describing design elements, function and aesthetics.

Assessment

At Year 11 students will be completing Achievement Standards. There will be a total of 18 – 20 credits available. Around half of these credits will be internally assessed and half externally assessed.

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 graphics pack if not purchased previously.

Year 12 (Level Two) Graphics

Prerequisites

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

Course Outline

At Year 12 students will be completing Achievement Standards. There will be a total of 18 – 20 credits available. Around half of these credits will be internally assessed and half externally assessed.

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 graphics pack if not purchased previously.

Year 13 (Level Three) Graphics**Prerequisites**

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

Course Outline

A design brief approach will be used. This will give the students scope and freedom to explore individual solutions to design problems. The course of study is designed about a modular structure, so that students can work to their strengths.

Assessment

At Year 13, students will be completing units in Level 3 NCEA Achievement Standards. Four standards are covered giving a total of 20 credits. Students will work on individual programmes, according to their strengths and interests. 15 credits internally and five credits externally.

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 is payable for materials used and \$35 for a graphics pack if not purchased previously.

FOR FURTHER INFORMATION SEE:	Mr Wing
-------------------------------------	----------------

**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 mankind.

Year 11 (Level One) History**Prerequisites**

No prerequisites.

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.

Year 11 History Themes:

- *New Zealand's conflict in 20th to the 21st Century*
- *Social Change. How and why have societies changed in the 20th Century*

Assessment

NCEA Level 1 History offers a total of 24 credits.

The internal assessment component of the Year 11 History course is valued at 12 credits, and involves students undertaking individual research projects on various topics. These research projects are an excellent way to develop valuable critical thinking skills. The remaining 12 credits are externally assessed.

Year 12 (Level Two) History

Prerequisites

No prerequisites.

Course Outline

The Year 12 History course investigates and analyses forces and ideologies that have had a global impact on the modern world. These involve forces such as industrialisation, revolution and decolonisation, and ideologies such as nationalism, fascism and imperialism.

Year 12 History Themes: The "ism's" that have changed the world.

Assessment

NCEA Level 2 History offers a total of up to 28 credits.

The internal assessment component of the Year 12 History course is valued at 14 credits, and involves students completing individual research on topics designed to develop analytical research skills. The remaining 14 credits are externally assessed.

Year 13 (Level Three) History

Prerequisites

No prerequisites.

Course Outline

The Year 13 History course analyses and evaluates a period in history that witnessed the beginnings of our modern world - *England between 1558 and 1667*.

Students investigate the revolutionary changes that were occurring in England and Europe as these communities developed the early features of our current society.

Year 13 History topics:

- *The Protestant Reformation*
- *Queen Elizabeth I (1559 – 1603)*
- *King James I (1603 – 1625)*
- *King Charles I (1625 – 1649)*
- *Oliver Cromwell and the Interregnum (1649 – 1660)*
- *King Charles II (1660 – 1667)*

Assessment

NCEA Level 3 History offers a total of 24 credits.

The internal assessment component of the Year 13 History course is valued at 9 credits, and involves students undertaking an individual research project designed to enhance the critical and analytical research skills of each individual student. The remaining 15 credits are externally assessed.

Course costs

Students are required to purchase a 'Write-On Notes' textbook which covers the entire course. The approximate cost for this textbook is \$15.

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 and management.

For further information see: Mr Abercrombie
--



HOME ECONOMICS/HOSPITALITY & CATERING

Year 11 (Level One) Home Economics

The course is based on a one year course of practical and theoretical activities in Home Economics. It focuses on Level 6 of the Health and Physical Education curriculum. This course 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.

Course Outline

The course includes the following topics-

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

Assessment

Students will work towards Unit Standards and Achievement Standards at NCEA Level 1. 19 credits are available.

Course 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.

Year 12 (Level Two) Hospitality and Catering

Introduction

The aim of this course is to provide students with the groundwork in a career in the Catering/tourism trade. At the completion of the course, students can go on and complete a Chef's course, a Tourism course, or work in the restaurant trade. As part of the year's study, students will use the facilities in the Home Economics Department at Cromwell College and at Otago Polytechnic's Cromwell Campus catering section.

Prerequisites

None. Available to Year 12 and 13 students. An interest in this subject is expected.

Course Outline

Students will work towards the Hospitality Standards Institute, 'Certificate of Achievement in Foundation Cookery Skills' Level 2. The Unit Standards are worth 18 credits. If time permits students will work on one Level 2 Achievement Standard.

Assessment

Assessment will be against Unit standards and 1 Achievement Standard.

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.
Candidate Workbooks and certificate - \$ 60.00 must be paid before the book will be issued.

Year 13 (Level Three) Hospitality and Catering**Course Outline**

This course is focussed on food safety, food preparation and creativity, special occasion food and nutrition. The aim of the course is to provide students with a good groundwork in the Hospitality and Catering Trade and to provide more advanced skills in food presentation and preparation. Students will work on Hospitality Standards Institute booklets worth 10 credits.

Prerequisite

None. An interest in the subject is essential.

Assessment

Students will work towards achieving Level 3 credits.

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.
Plus \$60 for candidate workbook which must be paid before the book will be issued.

FOR FURTHER INFORMATION SEE: Mrs Page
--

**HORTICULTURE YEAR 12 & 13 (Level 2 & 3)****Introduction**

A course that looks at all elements involved with plant propagation and associated Unit Standards eg. pruning, soil preparation, taking cuttings, sowing, plant pests etc.

Assessment

Around 24 Unit Standard credits at Level Two are available and around 19 credits at Level Three are available – some practical, some theory. This will be run through the Polytechnic. It is possible that some students would benefit from undertaking some Level 1 standards.

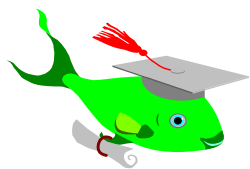
Costs

Costs associated with materials used – this will be in the order of \$200.

Where does it lead?

To many local industries – viticulture, orchards, flower production. To tertiary level in marketing, management, and research.

FOR FURTHER INFORMATION SEE: Mr Huffadine at Otago Polytechnic



INTERNATIONAL LANGUAGES

Introduction

French and Japanese are taught in Years 7 to 9 at Cromwell College. In the senior school these languages are available as taught classes, based on the numbers requesting International Languages, or as supported Correspondence School Courses.

Senior courses may be available as multi-language courses with students studying at the same level but in different languages in the class.

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.

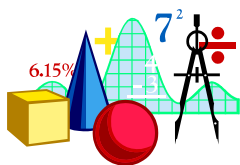
Prerequisites: at least 8 credits in the relevant NCEA Level 2 course.

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.

FOR FURTHER INFORMATION SEE:

Ms Aitchison



MATHEMATICS

Year 11 (Level One) Mathematics

Prerequisites

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

Course Outline

Year 11 Mathematics is a full year course that counts towards the 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 good understanding of the topics covered in Year 10 Mathematics and for those intending to carry on with Mathematics in Years 12 and 13.

Assessment

The course covers a range of Achievement Standards. There are a total of 23 credits available throughout the year.

Achievement Standard	Level	Credits	Title	Assessment
1.1	1	4	Number	Internal
1.2	1	4	Algebra	CAT
1.3	1	4	Graphs	External
1.7	1	3	Trigonometry	Internal
1.10	1	4	Statistics	Internal
1.12	1	4	Probability	External

Internal standards are assessed throughout the year, the external standards will be assessed by a three hour examination at the end of the year and the CAT is a Common Assessment Task set nationally, assessed in September.

Costs

As part of this course students will need:

- A graphical calculator fx-9750G that costs approximately \$90.
- Work booklets that cost approximately \$25 (please note payment is required before issue).

Beyond this course

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) Applied Mathematics

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

Year 11 Applied Mathematics is a full year course that counts towards the NCEA Level One. All students must pass a minimum of 10 credits in Mathematics to gain the Numeracy component of NCEA Level One. This course is for students who had limited success in Year 10 Mathematics and has very little algebra and graphing. The assessment is totally internally assessed for a total of 19 credits.

Achievement Standard	Level	Credits	Title
1.1	1	4	Number
1.5	1	3	Measurement
1.7	1	3	Right-angled Triangles
1.9	1	2	Transformations
1.10	1	4	Statistics
1.13	1	3	Probability

Costs

As part of this course students will be required to have a scientific calculator and a homework book which can be obtained from their teacher at the start of the year for a cost of approximately \$25. Please note payment is required before the work book can be issued.

Beyond this course

On completion of this course students may progress to the Year 11 Achievement Standards course or Year 12 Mathematics Applied.

Year 12 (Level Two) Mathematics

Prerequisites

14+ credits in Level One Mathematics, which must include Algebra, Measurement and Probability, or Head of Faculty discretion.

Course Outline

The course consists of seven Achievement Standards. Internal standards are assessed throughout the year with tasks being moderated nationally. The remaining standards will be assessed nationally by a three hour examination at the end of the year.

Achievement Standard	Level	Credits	Title	Assessment
2.2	2	4	Graphs	Internal
2.4	2	3	Trigonometric Relationships	Internal
2.6	2	4	Algebra	External
2.7	2	5	Calculus	External
2.9	2	4	Statistical Inference	Internal
2.11	2	2	Statistical Evaluation of a report	Internal
2.12	2	4	Probability	External

Costs

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

- A **graphics calculator** approximate cost \$90.
- A work book approximate cost \$25 (payment required before issue).

Beyond this course

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

Year 12 (Level Two) Applied Mathematics

Prerequisites

This course is designed for those students who either completed the Applied Mathematics course in Year 11 or who on the basis of their Year 11 results would experience difficulty in the standard Year 12 course.

Course Outline

The course consists of several internally assessed Mathematics Achievement Standards; Sequences and Series, Trigonometric relationships, Networks, Statistics and Probability (approximately 16 credits) and a couple of Numerate Unit Standards from another field, eg. Budgeting and Tourism (approximately 4 credits).

Costs

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

- A **graphics calculator** approximate cost \$90.
- A work book 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 and 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

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

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.

Mathematics with Calculus is a Level 3 subject and it is partially internally assessed with the rest externally assessed in a three hour examination in November. Some of the externals will be supported by Unit Standards.

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.

Standard	Level	Credits	Title
90635	3	6	Differentiation – external assessment
90636	3	6	Integration complex – external assessment
90638	3	5	Complex numbers – external assessment
90639	3	3	Conic sections – external assessment
90637	3	4	Trigonometric functions – internal assessment

Costs

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

- A **graphics calculator** approximate cost \$90.
- A work book approximate cost \$25 (payment required before issue).

Year 13 (Level Three) Mathematics with Statistics

Prerequisites

Five Mathematics Achievement Standards at Level Two, which must include Algebra, Probability and Simulation and Sampling, or Head of Faculty discretion.

Course Outline

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.

The course consists of seven Achievement Standards. The three internal standards are assessed during the year with the tasks being moderated nationally. The remaining standards will be assessed nationally by a three hour examination at the end of the year. The Probability and Solving Equations Externals will be supported by Unit Standards.

Standard	Level	Credits	Title
90641	3	3	Time Series – internal assessment
90643	3	4	Probability – external assessment
5258	3	3	Probability-expected value
90646	3	4	Probability distributions – external assessment
90647	3	3	Curve fitting – internal assessment
90642	3	3	Confidence intervals – external assessment
90645	3	3	Bivariate data analysis – internal assessment
90644	3	4	Solving equations – external assessment
5262	3	2	Linear programming
5264	3	3	Numeric methods

Costs

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

- A **graphics calculator** approximate cost \$90.
- A work book approximate cost 25 (payment required before issue).

FOR FURTHER INFORMATION SEE:	Mr Thomson
------------------------------	-------------------



MUSIC

Year 11 (Level One) Music

Prerequisites

Year 10 music is essential. Students must have prior knowledge and ongoing tuition in instrumental music (voice is an instrument).

Corequisites

Practical musical involvement in school music activities.

Course Outline

This course is based on the Year 11 prescription.

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

** it may be possible to offer this as a half year alternative

Assessment

Achievement Standard	Name	Activity/Unit	Level	Internal/External	Credits
91090	Perform two pieces of music as a featured soloist.	Solo	1	Internal	6
91091	Demonstrate ensemble skills through performing a piece of music as a member of a group.	Group	1	Internal	4
91092	Compose two original pieces of music.	Composition	1	Internal	6
91093	Demonstrate aural and theoretical skills through transcription.		1	External	4
91094	Demonstrate knowledge of conventions used in music scores.		1	External	4
91095	Demonstrate knowledge of two music works from contrasting contexts.	Set Works	1	Internal	6

Up to a total of 30 credits available.

Where does it lead?

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

If student numbers are insufficient, these courses may be offered through the Correspondence School or Otago Net.

Year 12 (Level Two) Music

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).

Corequisites

Practical musical involvement in school music activities.

Course Outline

- Music Knowledge (study)
- Creative harmony
- Individual Performance
- Group Performance
- Aural
- Extra Curricular Participation

Assessment

- One performance per term
- One major composition per term
- Two major study assignments per year
- 30 minute aural examination at the end of the year

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

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.

Course Outline

Two courses are available: Performance Music and Theory of Music, both have NCEA Level 3 credits.

This course will be offered through Distance Learning in 2012.

Where does it lead?

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

FOR FURTHER INFORMATION SEE:

Ms Copland



OUTDOOR EDUCATION

Year 12 (Level Two) Outdoor Education

Prerequisites

An interest in outdoor pursuits.
A reasonable level of physical fitness.

Course Outline

The course is largely practical however it does include some theory work.

- Risk management
- Windsurfing
- Tramping
- Mountain biking
- Skiing / Snowboarding
- Weather
- Kayaking

Assessment

Seven Level 2 Unit Standards
28 – 32 Level 2 credits in total

Outdoor Education is 100% Internally Assessed.

Costs

There is a large cost associated with Outdoor Education. The fee covers professional instruction for windsurfing, mountain biking and kayaking; equipment for windsurfing, tramping and kayaking; transport for tramping, mountain biking and kayaking; and the Keplar tramping expedition costs except food. The costs in 2012 will depend on the number of students in the class. Expect the cost to be somewhere in the range of \$500 to \$650, payable in three equal instalments at the end of Term One, Two and Three.

This cost does not include the cost of the snow programme. The snow programme costs are also significant and in 2011 included season pass (\$120), lessons (\$150) and transport (\$18 per week). Some students may also require season gear hire.

Where does it lead?

Year 13 Outdoor Education.
Tertiary study in Outdoor Education.

Year 13 (Level Three) Outdoor Education

Prerequisites

An interest in outdoor pursuits.
A reasonable level of physical fitness.

Course Outline

The course is largely practical however it does include some theory work.

- Kayaking
- Rock climbing
- Mountain Biking

- Orienteering
- Outdoor navigation
- Skiing / Snowboarding
- Kayaking
- Windsurfing

Assessment

Level 2 and/or three unit standards.

18 – 26 Level 2 or 3 credits in total.

Outdoor Education is 100% Internally Assessed.

Costs

There is a large cost associated with Outdoor Education. This covers professional instruction for windsurfing, rock climbing, mountain biking and kayaking; equipment for windsurfing; rock climbing, tramping and kayaking; transport for tramping, mountain biking and kayaking; and the mountain biking expedition costs except food. Expect the cost to be somewhere in the range of \$500 to \$650, payable in three equal instalments at the end of Term One, Two and Three.

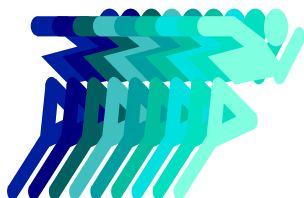
This cost does not include the cost of the snow programme. The snow programme costs are also significant and in 2011 included season pass (\$120), lessons (\$150) and transport (\$18 per week). Some students may also require season gear hire.

Where does it lead?

Tertiary study in Outdoor Education.

Careers in the Outdoor Education industry.

FOR FURTHER INFORMATION SEE:	Mr Waterworth
------------------------------	---------------



PHYSICAL EDUCATION

Year 11 (Level One) Physical Education Programme

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.

Course Outline

The course is 50% theory and 50% practical.

- 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

Five Level 1 Achievement Standards.

One Level 1 Unit Standard.

22 - 26 Level 1 credits in total.

Physical Education is 100% Internally Assessed.

Costs

There is a large cost associated with the Term Three snow programme. The snow programme costs are significant and in 2011 included season pass (\$120), lessons (\$150) and transport (\$18 per week). Some students may also require season gear hire. As noted above 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.

Where does it lead?

Level 2 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 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 Mr Waterworth.

Course Outline

The course is 50% theory and 50% practical.

- Anatomy, biomechanics, skill learning, sports psychology, skill performance.
- Methods of training, principles of training, exercise physiology, sports psychology, fitness performance.
- Significance of the Olympic Games.
- Leadership skills, kiwisport coaching.

Assessment

Five Level 2 Achievement Standards.

21 Level 2 credits in total.

Physical Education is 100% Internally Assessed.

Costs

\$30 (approximately) to 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 Waterworth.

Course Outline

The course is 50% theory and 50% practical. Level 3 Physical Education 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

Six Level 3 Achievement Standards.
24 Level Three credits in total.

Physical Education is 100% Internally Assessed.

Costs

\$25 (approximate) to cover course costs such as entry to the swimming pool, multi sports event, professional coaching, commercial gym visits etc.

Where does PE 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 Waterworth



PHYSICS

Year 12 (Level One) Physics

Entrance Criteria

To achieve entry into this course for 2012 students must attain a minimum of 14 Level 1 Science credits, including at least an **achieved** grade in the following Level 1 Achievement Standards.

Science (1.1) 90186

Carry out a practical chemistry investigation with direction

Science (1.6) 90191

Describe aspects of physics

and any three of the following four Mathematics achievement standards –

Mathematics (1.1) 90147

Use straightforward algebraic methods and solve equations

Mathematics (1.3) 90149

Solve problems involving measurement of everyday objects

Mathematics (1.7) 90151

Solve straightforward number problems in context

Mathematics (1.8) 90151

Solve right angled triangle problems

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

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

Course Outline

The main aims of the course are –

- 1 Develop an understanding of physics concepts and use these to explain physical processes.
- 2 Appreciate the theories of physics behind everyday applications of physics and their impact on our lives
- 3 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

NCEA Level 2 Physics Achievement Standards.

2 Internally Assessed Achievement Standards worth 7 credits.
4 Externally Assessed Achievement Standards worth 17 credits.

Costs

Approximately \$20 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 or Unit 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

Application of concepts studied to observed examples is important. Investigation skills are emphasised.

Assessment

NCEA Level 3 Physics Achievement Standards.

1 Internally Assessed Achievement Standard worth 5 credits.

4 Externally Assessed Achievement Standards worth 19 credits.

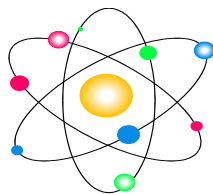
Costs

Approximately \$20 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
- Biotechnology
- Sports science
- Earth science

Assessment

Alternative Science is assessed during the year using Internally Assessment Achievement Standards. There are no external exams at the end of the year.

Achievement Standard	Title	Credits
90943	Investigate the implications of heat for everyday life.	4
90945	Investigate implications of the use of carbon compounds as fuels.	4
90946	Investigate the implications of the properties of metals for their use in society.	4
90950	Investigate biological ideas relating to interactions between humans and micro-organisms.	4
90954	Demonstrate understanding of the effects of astronomical cycles on planet Earth.	4
90930	Carry out a practical chemistry investigation, with direction.	4

24 credits in total

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.

Assessment

Students will be assessed at Level 1 NCEA. 24 credits are available.

Internal Assessments

These occur in class time throughout the year and will require preparation and research outside of class time.

Standard	Title	Credits
Sci 1.6	Investigate the implications of the use of custom compounds as fuels.	4
Chem 1.1	Carry out a practical investigation with direction.	4
Sci 1.15	Demonstrate understanding of the effect on planet Earth of astronomical cycles.	4

External Assessments

These are addressed by an external, final exam at the end of the year.

Standard	Title	Credits
Sci 1.1	Demonstrate understanding of aspects of mechanics.	4
Sci 1.5	Demonstrate understanding of chemical ideas relating to acids and bases.	4
Sci 1.9	Demonstrate understanding of genetic variation.	4

24 credits in total.

Cost

Approximately \$22 for Year 11 Science workbook.

Where does it lead?

Science is a foundation course leading to specialist sciences at Years 12 and 13. 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 Pearson
------------------------------	-------------------



TECHNOLOGY

Year 11 (Level One) Technology

Prerequisite

Students must have completed Year 9 or Year 10 Materials Technology.

Course Outline

This course has a problem solving approach involving the development of practical solutions to given and open design briefs. The course is about;

- Learning to understand materials (wood, metal, plastic).
- How to use the material to make something that solves the problem.

Students are required to produce a portfolio of work which shows their; research, concepts, planning and knowledge of tools, processes and materials. This, together with the practical solution formulates the coursework. Students will be given the opportunity to work in a variety of hard materials including wood, metal and plastic.

Assessment

Students will work towards Achievement Standards and or Unit Standards for NCEA Level 1 Technology. The coursework is assessed internally, and up to a maximum of 23 credits are available if completed.

Costs

Students will incur material costs, estimated at \$100 for the year, which will depend on the materials chosen and how they are supplied. Please note 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?

Technology is centred on developing the student's creative talents, technological skills and interests. It emphasises practical skills of craftsmanship for personal and vocational uses, e.g. all metal trades, fitting/turning, welding, panel beating, plumbing, irrigation, motor trades, production engineering, farming, boatbuilding, conservation and restoration work, civil engineering, electrical work, building, joinery, cabinet making, interior design, building inspection, architecture, teaching and upholstery.

Year 12 (Level Two) & Year 13 (Level Three) Technology

Prerequisite

Students must have completed Year 11 NCEA Level 1 Technology Course.

Course Outline

Year 12 Technology has a mixture of both Unit Standards and Achievement Standards with a maximum of 21 credits available. Year 13 Technology also has a mixture of Unit Standards and Achievement Standards with a total maximum of 20 credits available.

Assessment

All the Achievement Standards and Unit Standards are internally assessed.

Where will it lead?

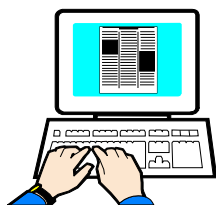
The skills learnt will lead to a range of training and job opportunities in trades, engineering and design or for entry into Universities or Polytechnic.

Course Cost

Students will incur material costs which depend on the materials chosen. Approximately \$100 for the year.

FOR FURTHER INFORMATION SEE:

Mr Wing or Mr Smith



TEXT MANAGEMENT

Year 11 (Level One) Text Management

Prerequisites

Any student who wishes to further develop their skills may join this class so that efficient keyboarding skills and design skills are enhanced.

Course Outline

The content of this course will be dependent on the ability and interests of students each year. There are Unit Standards available in Text Management as well as Achievement Standards in Digital Technology (media) and these will be given to students at the beginning of the course.

Assessment

There will be a mixture of both areas (all internal) totalling no more than 20 credits.

Costs

There will be a charge of \$7 for paper and toner used during the year.

Year 12 (Level Two) Text Management

Prerequisites

This course is open to any student – they may be wanting to learn keyboarding skills or to further develop their skills so that their keyboarding and design skills are enhanced. No prior learning in this subject is required as students are encouraged to develop their keying-in skills to an efficient standard in readiness for use in their careers.

Assessment

There will be an opportunity to gain Unit Standards and the number available will depend upon the student's prior knowledge and ability.

Costs

There will be a charge of \$7 for paper and toner used during the year.

Year 13 (Level Three) Text Management

This course is open to any student and the Unit Standards offered will be dependent on prior knowledge. The course can cover all aspects of Text Management at any level.

Costs

There is a course cost of \$7 for paper and toner used during the year.

Where does it lead?

This course covers all aspects of word processing and media design. Gaining these skills can lead into all careers of computing and administration. Universities and Polytechnics require students to provide their course work in computer generated form.

Discussion with Mrs Wing is welcome as to an individual student's programme at this level.

FOR FURTHER INFORMATION SEE:

Mrs Wing



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.

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 and for suitable students, Level 3 credits may be offered. 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.

Level 2 Internally assessed Unit Standards – minimum of 22 credits

Level 3 Internally assessed Unit Standards – minimum of 15 credits

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 being as follows;

Workbooks (issued when payment received):

Level 2: Core compulsory unit workbooks \$60 (5 books)

Level 3: Elective Units \$60 (4 books)

Students who choose to complete additional units will be charged for separate workbooks and assessments at approximately \$20 per unit.

Level 2 students – Tourism trip to Queenstown, approximately \$30 - \$100 depending on option chosen.

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, hotel management and event organising.

FOR FURTHER INFORMATION SEE:

Mrs Greenwood



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 a combination of painting, printmaking, design, sculpture or photography.

Prerequisites

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

Assessment

Standard	Level	Credits	Title
90914	1	4	Use drawing methods for recording information using wet and dry media.
90915	1	6	Use drawing conventions to develop work in more than one field of practice.
90916	1	12	Produce a body of work informed by established practice, which develops ideas, using a range of media.

Costs - \$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.

Year 12 (Level Two) Art

Introduction

Students will generate and develop ideas for original personal work from the fields of painting, printmaking, sculpture and design by extending their knowledge and understanding of artists and artworks.

Prerequisites

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

Assessment – NCEA – 24 credits available

Standard	Level	Credits	Title
90233	2	6	Research information, methods and ideas in the context of a drawing study in painting.
90473	2	6	Research information, methods and ideas in the context of a drawing study in sculpture.
90474	2	6	Research information, methods and ideas in the context of a drawing study in design.
90478	2	6	Generate and develop ideas using drawing processes and procedures in printmaking practice.

Costs - \$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.

Year 13 (Level 3 and Scholarship) Art

Introduction

Students will produce artwork in a chosen field (painting, design, printmaking or sculpture). The student will incorporate research and analysis of recent and established NZ and international artists into 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.

Assessment

Standard	Level	Credits	Title
90516	3	6	Investigate and use ideas and methods in the context of a drawing study in design .
90517	3	14	Produce original work within design to show extensive knowledge of art-making methods and ideas.
90663	3	6	Investigate and use ideas and methods in the context of a drawing study in painting .
90667	3	14	Produce original work within painting to show extensive knowledge of art-making methods and ideas.
90665	3	6	Investigate and use ideas and methods in the context of a drawing study in printmaking .
90669	3	14	Produce original work within printmaking to show extensive knowledge of art-making methods and ideas.
90666	3	6	Investigate and use ideas and methods in the context of a drawing study in sculpture .
90670	3	14	Produce original work within sculpture to show extensive knowledge of art-making methods and ideas.

Costs

\$60 per field, 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.

Year 13 (Level Three) Photography

Students will produce artwork in digital photography. The student will incorporate research and analysis of recent and established New Zealand and international artists into original work.

Prerequisites

12 credits in Level 2 Visual Art, and an understanding of Photoshop programme, or by negotiation with Ms Close, access to a reliable digital camera. Access to a personal laptop an advantage.

Assessment –

Standard	Level	Credits	Title
90664	3	6	Investigate and use ideas and methods in the context of a drawing study in photography.
90668	3	14	Produce original work within photography to show extensive knowledge of art-making methods and ideas.

Costs - \$80 minimum, 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.

FOR FURTHER INFORMATION SEE:	Ms Close
-------------------------------------	-----------------