

MOUNT HUTT COLLEGE METHVEN

“Striving for Excellence”



2010 Senior Course Booklet

TO ALL PARENTS AND STUDENTS

The purpose of this booklet is to provide you with some detail on the content of the various subjects taught at Mount Hutt College Methven.

Students in Years 10,11,12 and their parents should read this information when selecting optional subjects. Your initial choices are used to assist us in preparing the six year 11-13 option lines for 2010. These option lines and final subject selection sheets will be distributed to students in August for their final selection.

Further information and advice is readily available from subject teachers, form teachers, Deans and members of the guidance staff.

The availability of any subject option is dependent on staffing and the numbers of students wishing to take it. The school makes every effort to meet the needs of its students and, if any subject requested could not be staffed, alternative means are explored so that the students concerned are not disadvantaged.

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COURSES AT A GLANCE

Level 1	Level 2	Level 3
	Accounting	Accounting
Agriculture	Agriculture	Agriculture
Art (Visual)	Art (Visual) Art (History)	Art (Painting) (Photography)
	Biology	Biology
Business Studies		
	Chemistry	Chemistry
	Computer Studies	Computer Studies
	Economics	Economics
Employment Skills	Employment Skills	
English *	English *	English
Geography	Geography	Geography
Graphics	Graphics	Graphics
History	History	History
Home Economics	Home Economics	
Information Management		
Learning Support Programme	Learning Support Programme	
Mathematics *	Mathematics	Mathematics and Calculus Statistics and Modelling
Music	Music	Music
Outdoor Education	Outdoor Education	Outdoor Education
Physical Education	Physical Education	Physical Education
	Physics	Physics
Science *	Science	
Technology (Fabric, Computer Technology, Wood)	Technology (Fabric, Wood)	Technology
	Tourism	Tourism

* Compulsory subject.

These subjects will only run if class sizes are sufficient

Some Correspondence or Cantatech Courses may be available

NUMBER OF SUBJECTS

All year 11 and 12 students are required to take 6 subjects.

Year 13 students intending to qualify for entrance to a University should take five Year 13 level subjects.

PREREQUISITES

Entry to Year 12 and Year 13 courses requires the Principal's approval. This depends on satisfactory results at a lower level. Parents are strongly urged to involve themselves in the process of selecting the most appropriate courses for their children.

Satisfactory levels of attainment in at least 4 out of 6 subjects is needed for progression to the next level.

ELIGIBILITY FOR QUALIFICATIONS

Parents please note: senior students can be disqualified from awards because of:

- non completion of course requirements
- consistent failure to meet deadlines

NCEA LEVELS 1-3

Level 1

80 credits required with at least 8 credits in both English and Mathematics.

Level 2

80 credits (60 at level 2) with 8 credits from English (4 in writing plus 4 in reading).

Level 3

80 credits (60 at level 3).

NCEA LEVELS 1-3 CERTIFICATE ENDORSEMENTS

Endorsement with Merit

For a certificate to be endorsed with Merit, 50 credits at Merit or Excellence will be required at the same level, or higher, on the National Qualification Framework (NQF) as the certificate being awarded.

Endorsement with Excellence

For a certificate to be endorsed with Excellence, 50 credits at Excellence will be required at the same level, or higher, on the NQF as the certificate being awarded.

Unit Standards

For the most part, credits gained for unit standards will not contribute to endorsement of certificates, as they do not have grades of Merit or Excellence.

(iii)

UNIVERSITY ENTRANCE STANDARD

Students are qualified for entrance to a university in New Zealand when they 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 or approved subjects.
- 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. The literacy credits will be selected from a schedule of approved achievement standards and unit standards.

COSTS

Subject costs are indicated throughout the Course booklet as a guide and may vary slightly from year to year.

DISTANCE EDUCATION

The College is a participating member of “Cantatech” which is a modern distance education project linking secondary and area schools. Through it, students at each school have access to a wide range of subjects taught by skilled teachers using video conferencing technology.

Some students, with the approval of the Principal, have been enrolled with the Correspondence School, Wellington, to study a subject by Correspondence work. The conditions for entry to these courses are determined by the Correspondence School. The student may have to pay for such a course.

Subjects taught by this method at the College in the past have been Year 13 German, Year 12 and 13 History, Year 13 Classics, and vocational subjects from the other providers e.g. Hair Dressing.

Studying through Distance Education requires self-discipline and application but is excellent in terms of developing independent study skills.

School policy and the application form for Distance Education is available from the Senior Dean.

GATEWAY

Gateway is a programme administered by the Tertiary Education Commission. It assists schools to make learning relevant and to broaden students’ options by offering them structured, workplace learning.

The learning is hands on and practical. Students are assessed in the workplace for Unit and Achievement Standards which contribute to NCEA, as well as industry specific qualifications.

Accounting – NCEA Level 2

Consult with: *Mr Prouting*

Pre-requisite:

Achieved in Year 11 Accounting Standards **or** strong academic performance and a consultation meeting with Mr Prouting **prior** to subject choice.

Course Outline:

Continuing on from Level 1 this course covers the whole accounting process from transactions through to Financial Statements. A computer accounting program **may** be used from year to year depending on class size.

Credits available:

Internal Nil

External

Achievement Standards 17 (Level 2)

* *Maximum number of credits = 24 for any student.*

Costs: (approx) \$5 for computer workbook if computer internal is done in that year.

Accounting – NCEA Level 3

Consult with: *Mr Prouting*

Pre-requisite:

Year 12 Accounting or very strong academic performance. Consult with Mr Prouting prior to subject selection.

Course outline:

This course builds on previous Accounting courses and focuses on partnerships, companies and management decision making.

Credits available:

Internal

Achievement standards 5

External

Achievement Standards 16

* *Maximum number of credits = 24 for any student.*

Agriculture – NCEA Level 1

Consult with: Mrs Jessep

Agriculture is taught in Years 10-13, with it being available in Year 13 if required. Students study a mixture of vocational Unit Standards and Achievement Standards. Most compulsory practical units required by the National Certificate in Agriculture are studied. By the end of Year 12 students should be able to gain the National Certificate in Agriculture Level 2, if all compulsory standards have been passed.

Pre-requisite: Nil

Course outline:

Agriculture at Year 11 is a mixture of Achievement and Unit standards. The Unit Standards are vocational units designed to assess the student's practical skills.

Unit Standards are taught and assessed by Agribusiness Training Ltd. They are taught on farms. Skills covered are Motorbikes/ ATV's and tractors. Safety is the prime consideration.

Achievement Standards are externally assessed by an exam at the end of the year.

Topics covered are:

- Describe aspects of Primary Industry Production in NZ
- Describe the properties and management of soils.
- Pasture and Crop Production.
- Describe Livestock Management and Livestock physiology important to this management.
Describe the environmental impact of primary production management.

Credits available:

Internal

Unit standards 20+

External

Achievement Standards 20

* *Maximum number of credits = 24 for any student.*

Costs: (Approx) - Transport as required
- Course material \$25.00



Agriculture – NCEA Level 2

Consult with: Mrs Jessep

Pre-requisite:
Completion of Year 11.

Course outline:
A mixture of Unit Standards and Achievement Standards.

Unit Standards

- Crutching }
- Chainsaws } Optional
- Fencing
- Animal Handling

Achievement Standards

- Animal reproduction
- Plant Production
- Livestock behaviour and productivity
- Students have the opportunity to participate in an inter-school Agri-Skills competition.

Unit Standards

Plant

- Weed identification
- Pest and disease identification

Credits available:

Internal
Unit Standards 34

External
Achievement Standards 12

* *Maximum number of credits = 24 for any student.*

Costs: Travel as required
Course materials \$25.00

Agriculture – NCEA Level 3

Consult with: Mrs Jessep

Pre-requisite: Level 2 Agriculture

Course outline:

- Research production of marketable primary production
- Investigate production and nationally significant product
- Explain how market forces effect supply and demand
- Explain market requirements of a nationally significant product
- Analyse a primary production environment issue

Credits available:

Internal
Achievement Standards 10

External
Achievement Standards 14

Art – NCEA Level 1

This is an essential subject for students intending to further their art / graphics design education beyond secondary school. It is also a practical, interesting and rewarding subject for those keen to add visual skills and knowledge to their curriculum vitae (CV).

Consult with: *Ms Ponweiser*

Pre-requisite:

Basic drawing skills to level 5 and a commitment to drawing and exploring ideas visually is essential.

Course outline:

The course starts with practical exploration of art making processes, procedures, materials and techniques using a range of local subject matter. Emphasis is on keeping a workbook to record information from subject matter, develop composition, and document ideas about colour, layering techniques, and a range of media and artist models. A field trip to Christchurch and drawing field trips support class work. Term one work is the foundation for work throughout the year which includes a folio (term two and three) and optional printmaking and research projects (term four).

Credits available:

Internal 17-24 (*workbook*)

Achievement Standards

External 12 (*folio*)

Achievement Standards

* *Maximum number of credits = 24 for any student.*

Costs:

Approximately \$50 art fee includes workbook, folio cardboard, assessment wallet, painting and printmaking materials. Students must provide their own personal gear, e.g carry case, technical pencils, erasers, blutak, masking tape and double-sided tape (required for attaching work to folio). Field trip costs approximately \$40-50.



Art - NCEA Level 2

Consult with: Ms Ponweiser

This is an essential subject for students intending to study painting, printmaking design or photography in depth next year. It is a broad-based course that provides a foundation of ideas and methods necessary for making good choices at Level 3. It also provides an opportunity for Year 12 and 13 students to do a valuable practical course of study to broaden their CV, or to revisit career options. An outcome could be putting together a portfolio of work for entry to an Art or Design College (e.g. CPIT, NatColl, D & A).

Pre-requisites:

NCEA Level 1 Visual Art. Evidence of key competencies: self management, ability to use and understand elements of visual language.

Course Outline:

The course has up to 4 practical drawing projects (photography, printmaking, design and painting) that involve investigating particular ideas and methods, artist models and subject matter, and developing distinctive personal work in response. A field trip to Christchurch to view artworks and local drawing field trips support class work.

Credits available:

Internal (all) 18-24

** Maximum number of credits = 24 for any student.*

Costs:

Approximately \$50 for essential course materials. Students must provide their own personal gear (e.g. carry case, technical pencils, erasers, blutak, masking tape and double-sided tape (required for attaching work to mini folios). Field trip costs approximately \$40-\$50.



Art - NCEA Level 3

Consult with: *Ms Ponweiser*

This is an intensive course of study involving research and investigation of contemporary and established art practice. Students are required to initiate their own topic ideas in a selected field (painting, printmaking and photography are offered) and to develop systematic procedures and processes for testing and developing depth and range or practical understanding of their chosen topic. It is a requirement in art at Level 3 that original work is founded in this systematic learning. For this reason, students need to have a strong commitment to the routines of practical work and very good self-management.

Pre-requisites:

Credits at Year 12 in the selected field are highly desirable. Evidence of appropriate practical skills, and ability and willingness to explore specific elements of visual language in depth are essential.

Course Outline:

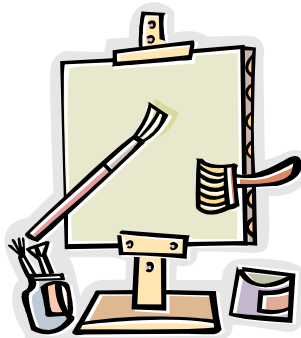
The course involves an initial research project in Term one to investigate ideas and subject matter widely with in-depth reference to established practice (ie artist models) in the selected field. A further drawing project in the selected field – to test ideas – must lead to a feasible folio topic/proposal by the middle of term two. The rest of the year is devoted to completing the folio. A field trip to Christchurch to view artworks and local drawing field trips support class work. Students who enter for the internals (3.1 and 3.2) but do not complete work, meet deadlines or reach required standards (NZ Curriculum level 8) by mid year are unlikely to be able to complete a folio and may be required to continue work on the internals for the remainder of the year.

Credits Available:

	<i>Internal</i>	
	Achievement Standards	10
<i>Plus</i>	<i>External</i>	
	Achievement Standards	14

Costs:

Approximately \$50-\$100 for essential materials. Students must provide their own personal gear (eg carry-case, technical pencils, erasers, magic tape, blutak, masking tape and double-sided tape required to attaching work to folio panels). Field trip costs approximately \$40-50.



Art - Photography – NCEA Level 3 (Analogue or Digital)

Consult with: Ms Ponweiser

This is an intensive course of study involving research and investigation of contemporary approaches to photography and their sources in order to understand their relationships and application to the student's own work. Students are required to initiate their own topic ideas and to use systematic procedures and processes for testing and developing practical understanding of their chosen art problem in photography. It is a requirement at this level that original work stems from this learning.

Pre-requisites:

Analogue Photography:

Own camera, basic understanding of black and white photography ideas and techniques, and knowledge of art ideas and methods to Year 12 is desirable*. Commitment to taking photographs and working in the darkroom outside class time is essential. * Students with no prior photography standards must do the Basic Black & White Photography Unit Standard (Level 2) before the end of the first term.

Digital Photography:

Access to Photoshop, laptop etc an advantage.

Course Outline:

The course involves initial research and practical investigation of ideas using established of artists' works, practices and careful observation of subject matter. A FOLIO topic proposal is required by mid Term 2. Students who do not meet deadlines and standards by mid year will not be able to do the folio.

Credits Available:

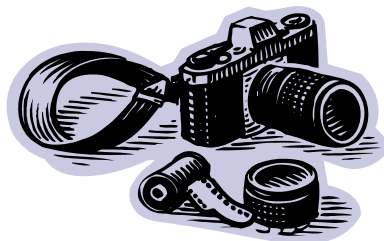
Internal

Achievement Standards 10 (L3)

Plus, External

Achievement Standards 14 (L3 ; 3x A1 boards)

Costs: (approx) \$80-\$150 materials, field trip costs, etc. Students must provide their own personal art stationery (eg carry-case, technical pencils, erasers, magic tape, blu-tak, etc)



Art History NCEA Level 2

Consult with: *Miss Watson*

This is an excellent subject for those interested in Art, Design, Graphics and Technology or those wishing to study something different. We look at a range of painting, sculpture and architecture and design throughout the ages. Artists were the original celebrities, we examine what makes them tick.

Pre-requisites:

You need a general interest in the subject, and good essay skills. You do not have to be good at Art to be good at Art History.

Course outline:

- Discuss Art works
- Examine subjects and themes in Art
- Examine techniques used in Art
- Examine an Art movement

Credits Available:

<i>Internal</i>	
Achievement Standards	4
<i>External</i>	
Achievement Standards	20

Cost: Ring binder folder, printing

Biology – NCEA Level 2

Consult with: *Mrs Winter*

Pre-Requisite:

12 Credits from the external Achievement Standards at Level 1 including Aspects of Biology.

Course Outline:

The course is 5 units

- Special characteristics of NZ flora and fauna.
- Ecology
- Cell biology
- Genetics and evolution
- Diversity of Animals

Credits available:

<i>Internal</i>	
Achievement Standards	24
Unit Standards	12

External

Achievement Standards	12
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* *Maximum number of credits = 24 for any student.*

Costs: \$30.00 (workbook) approx. Field Trip \$10 (approx)

Biology – Level 3

Consult with: Mrs Winter

This course builds on level 2 Biology but a motivated academic student could begin Biology at this level.

Pre-requisite:

Students need 9 credits from Level 2 Biology Achievement Standards. Or consult with Mrs Winter.

Course outline:

- The course has 5 units
- Plant and animal behaviour
 - DNA and phenotype
 - Processes and patterns of evolution
 - Trends in human evolution
 - Biotechnology

Practical work and a field trip to Portobello is an important part of the course.

Credits available:

Internal

Achievement Standards	7
Unit Standards	4*

External

Achievement Standards	14 or 11*
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* *Maximum number of credits = 24 for any student.*

*dependent on group strength from year to year.

Costs: \$30.00 (Workbook) \$250 (field trip Portobello)

Business Studies – NCEA Level 1

Consult with : Mr Prouting

Pre-requisite:

Year 10 Business Studies **or** a meeting with Mr Prouting or the Year 11 Dean **prior** to making subject choice and strong academic performance in year 10.

Course Outline:

This course introduces students to subjects in the Commerce Field, namely Economics and Accounting. Topics covered in Economics; Supply, Demand and the Market. Topics covered in Accounting; Concepts, Financial Statements and related accounting entries. There are two external exams.

Credits available:

Internal

Achievement Standards	3 Economics
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External

Achievement Standards	12 Economics
Achievement Standards	10 Accounting

* *Maximum number of credits = 24 for any student.*

Costs: Workbook \$22 (approx).

Chemistry – NCEA Level 2

Consult with: Miss Smith

Pre-requisite: 14 credits from Level 1 Science.

Course outline:

- Qualitative analysis
- Structure and bonding
- Stoichiometry – Quantitative analysis
- Oxidation – Reduction
- Equilibrium and Thermodynamics
- Organic

Practical work is an important part of the course.

Credits available:

Internal

Achievement Standards 8

External

Achievement Standards 16

Costs: Laboratory Manuals \$34.00

Chemistry – NCEA Level 3

Consult with: Miss Smith

This course builds on Level 2 Chemistry going into depth in each topic.

Pre-requisite:

7 Level 2 Chemistry credits in total or 9 credits from external Achievement Standards.

Course outline:

- Organic Chemistry
- Oxidation – Reduction
- Solubility
- Atomic structure
- Thermochemistry

Also a major practical component is an extended practical investigation involving quantitative analysis. Practical work is an important part of the course.

Credits available:

Internal

Achievement Standards 7

Unit Standards 12

External

Achievement Standards 13

* *Maximum number of credits = 24 for any student.*

Costs: Laboratory Manuals \$34.00

Computer Studies – NCEA Level 2

Consult with: Miss Eastup

This course involves 2 compulsory theory units, one of which is studied on-line and a range of practical units which will enable students to gain experience in a variety of applications. It builds on some aspects of year 11 Information Management.

Pre-requisite:

Some Level 1 Information Management or computer related credits, or a high Level of competence demonstrated in year 10.

Course Outline:

8 Unit Standards

Compulsory:

- Manage and protect data
- Demonstrate and apply knowledge of a personal computer system

Additional:

- Desk Top Publishing
- Presentation software
- E-mail
- Spreadsheets
- Flat file database
- Web Design

Credits available:

Internal

Unit Standards 25

* *Maximum number of credits = 24 for any student.*

Costs: (approx) *Longman Write on Notes* book, ring binder folder, plastic wallets, dividers, printing (\$60.00), plus on-line course for unit, 2780.



Computer Studies – NCEA Level 3

Consult with: *Miss Eastup*

This course builds upon the skills and knowledge recognised in the **National Certificate of Computer Studies – Level 2** and can lead to **National Certificate of Computer Studies – Level 3**. The course aims to provide students with the core computer skills and competencies required for initial employment in computing, preparing and creating solutions for use within organisations, and to enhance readiness for further study in computing and related fields.

Pre-requisite:

Some credits gained at Level 2 computing (Ideally the 2 compulsory units: 2780, Demonstrate and apply knowledge of a personal computer system and 2781, Manage and protect data)

Course Outline:

6 Unit Standards:

- Creating images using Paint Shop Pro
- Spreadsheets
- Flat file databases
- Desk top Presentation
- Desk top Published documents
- Website creation

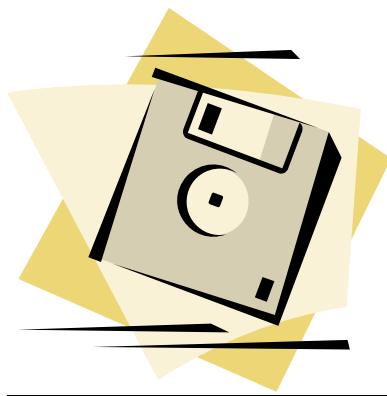
Credits available:

Internal

Achievement Standards 28

Costs: Ring binder folder, plastic wallets, dividers, printing (\$20.00 approx)

* *Maximum number of credits = 24 for any student.*



Economics – NCEA Level 2

Consult with: *Mr Prouting*

Pre-requisite:

Year 11 Business Studies **or** meeting with Mr Prouting **prior** to subject selection.

Course Outline:

This course deals with economic issues and theory relevant to the N.Z economy as a whole. Covering issues such as free trade, inflation, economic growth, employment, inequality and the role of the government.

Credits Available:

A mixture of unit standards and achievement standards are available. Unit Standards are internally assessed.

Credits available:

<i>Internal</i>	
Unit standard	6
Achievement Standards	
<i>External</i>	
Achievement Standards	18

Costs: Workbook \$22 aprox.

Economics – NCEA Level 3

Consult with: *Mr Prouting*

Pre-requisite:

Year 11 Economics or strong academic ability. Consult with Mr Prouting prior to subject selection. Level 2 Economics an advantage.

Course Outline:

The course covers two parts: Micro-Economics looking at individuals, individual firms and industries. For firm's costs, revenues and profit maximising levels of output are examined.

Macro-Economics looking at the N.Z economy as a whole building on the Year 12 course.

Credits Available:

<i>Internal</i>	
Achievement Standards	5
<i>External</i>	
Achievement Standards	19

Costs: Two workbooks \$44

Employment Skills/Life Skills

Consult with: *Mr Wilkins, Mrs Marr*

Pre-requisite: None. Be in either Year 12, 13.

Course outline:

Courses will be available at a low academic level. Topics will probably include, Independent Living (flattening), money and banking, taxation, vehicles, sexuality and child care. Practical tasks will include City Survival, meal making and regular work experience. These will prepare students for the world of work and offer some Level 1 and 2 credits towards their NCEA qualification.

* *Maximum number of credits = 24 for any student.*



English - NCEA Level 1

Consult with: *Mr Harper*

This course is a full Level 1 course and the foundation for **Level 1 Literacy** and for continued study in the subject. Minimum literacy is **eight credits** in any areas of the subject. Students are expected to do all units and assessments in the subject.

Course Outline:

The course covers the major strands of the English Curriculum:

- Reception: Listening, Reading and Viewing.
- Production: Speaking, Writing and Presenting

The following units are studied during the course of the year.

- Writing- creative and formal
- Speaking for a specific audience
- Extended written text – the novel
- Short text- short story and poetry
- Visual presenting- static image
- Wide reading- a range of texts both written and visual
- Visual –film study
- Unfamiliar text- close reading of text

Credits available:

Internal

Achievement Standards 14

External

Achievement Standards 12

* *Maximum number of credits = 24 for any student.*

Alternative Courses- alternative courses may be provided for small groups to cater for different needs and a number of various Unit Standards offered.

English – NCEA Level 2

Consult with: *Mr Harper*

This course is a full Level 2 course and designed for students to achieve **Level 2 Literacy**. This requires **four** credits in **writing** and **four** credits in **reading**. Students are expected to do all units and assessments in the subject.

Pre-requisite:

Recommended **twelve Credits** at **Level 1** or consultation with Mr Harper

Course Outline:

The course covers the major strands of the English Curriculum:

- Reception: Listening, Reading and Viewing.
- Production: Speaking, Writing and Presenting

The following units are studied during the course of the year.

- Writing- extended creative and formal writing.
- Speaking for a specific audience.
- Extended written texts– the novel/ Shakespearean text.
- Short written texts-short stories/poetry.
- Research-language or literature topic.
- Visual –film study.
- Unfamiliar text- close reading of texts.

Credits available:

Internal

Assessment Standards 15

External

Assessment Standards 12

* *Maximum number of credits = 24 for any student.*

Alternative Programmes- alternative courses may be provided for small groups to cater for different needs and a number of various Unit Standards offered.



English – NCEA Level 3

Consult with: *Mr Harper*

This course is a full level three course and designed for students who wish to continue on to tertiary studies in this subject or in its associated strands. Students are expected to do all units and assessments in the subject.

Pre-requisite:

Recommended **literacy at Level 2** or consultation with Mr Harper.

Course Outline:

The course covers the major strands of the English Curriculum:

- Reception: Listening, Reading and Viewing.
- Production: Speaking, Writing and Presenting

The following units are studied during the course of the year.

- Writing- extended creative writing
- Speaking for a specific audience
- Written texts– the novel/short stories/poetry
- Shakespearean drama study
- Research-language or literature topic
- Visual –film study
- Unfamiliar texts- close reading of texts

Credits available:

Internal

Assessment Standards 12

External

Assessment Standards 12

* *Maximum number of credits = 24 for any student.*

English for Speakers of Other Languages (ESOL) – NCEA Level 1

Consult with: *Mrs Drummond or Mrs Baird*

This course helps international students with English, and includes working towards NCEA Level 1 Literacy. This requires a total of eight credits in English standards. Students take this as a double subject, which means they have two classes most days.

Course outline

The course includes the major skills of listening, speaking, reading and writing English.

The following units are studied during the year:

- About me
- Relating to Others
- Learning about the World

These topics lead to unit standard assessments in listening, speaking, reading, and writing.

Credits available

Internal

English Unit Standards 8

ESOL Unit Standards 25

Please note, as stated above, this is a double subject, so it has more credits available than other subjects do.

External There are no New Zealand external exams for ESOL

English for Speakers of Other Languages (ESOL) – NCEA Level 2

Consult with: *Mrs Baird or Mrs Drummond*

This course helps international students with English, and includes starting to work towards NCEA Level 2 Literacy. This requires a total of eight credits in English standards, four credits in writing, and four credits in reading.

Students take this as a double subject, which means they have two classes most days.

Course outline

The course includes the major skills of listening, speaking, reading and writing English.

The following units are studied during the year:

- Relating to the World
- Crime

These topics lead to unit standard assessments in listening, speaking, reading and writing.

Credits available

Internal

ESOL Unit Standards 17 plus practising foundation work for level 3 ESOL and level 2 English for the following year. For example, students read some of the texts required for standard 12905, which they will complete in year 13.

External There are no New Zealand external exams for ESOL

English for Speakers of Other Languages (ESOL) – NCEA Level 3

Consult with: *Mrs Baird or Mrs Drummond*

This course helps international students with English, and includes working towards NCEA Level 2 Literacy. This requires a total of eight credits in English standards, four credits in writing, and four credits in reading. These English credits, plus gaining enough level 3 credits in all subjects, will enable the student to enter a New Zealand university the following year. Students have just one class per day most days.

Course outline

The course includes the major skills of listening, speaking, reading and writing English.

The following areas are studied during the year: formal letters, academic vocabulary, root words, writing an opinion, and taking part in a discussion.

Students also read a wide range of literature as part of the literacy requirements.

Credits available

Internal

ESOL Unit Standards 20

English Unit Standards 8

Please note that students begin preparatory work in year 12 for half of these credits.

External There are no New Zealand external exams for ESOL

- Maximum number of credits = 24 for any student.
-

Geography- NCEA Level 1

Consult with: *Miss Baldwin, Mr O'Connor*

The general aim of the course is to develop an understanding of the environment as the home of people.

Pre-requisite:

No pre-requisite required but interest in understanding the environment is an advantage.

Course outline:

The emphasis is on skills - field work, maps, graphs, models, research, current issues, interviewing, case studies, problem solving.

The course of study includes:

1. Internal Assessment Achievement Standards – includes a four day field trip to allow students to undertake Achievement Standard 1.5 and also complete activities related to other internal and also to external Achievement Standards.
2. External achievement standards topics
 - a) Extreme Natural Events
 - b) Population patterns, processes and issues
 - c) Resource use in a farming and mining contexts
3. Skills and practical activities.

Credits available:

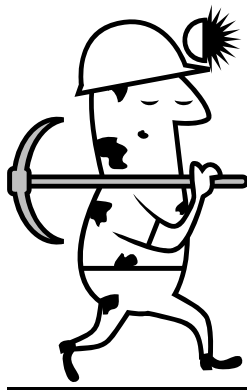
Internal

Achievement Standards 11

External

Achievement Standards 13

Costs: Field Trip - \$130 (approx)
Farm visit - \$20 (approx)



Geography- NCEA Level 2

Consult with: *Miss Baldwin, Mr O'Connor*

This course builds on aspects of Year 11 (Level 1) Geography.

Pre-requisite:

Study of Geography at Level 1 is an advantage or satisfactory Level 1 results in related subjects.

Course Outline:

The themes require students to develop and enlarge their appreciation of the environment and its natural and cultural features and to increase understanding of associated processes and inter-relationships. Course of study includes:

- a) External Achievement Standards.
 - (i) Natural landscapes
 - (ii) Contrasts in Development
 - (iii) Urban Settlements
- b) Skills and practical activities.
- c) Internal Achievement Standards - includes fieldwork and practical work in the local area along with understanding of current Geographic issues at local, national and global scale.

Credits available:

Internal

Achievement Standards 11

External

Achievement Standards 13

Costs: Field trip approximately \$100 (approx).



Geography – NCEA Level 3

Consult with: Mrs Canham

The course continues the major geographic concepts developed through Years 11 and 12.

Pre-requisite

Study of Geography at Level 1 and Level 2 or Level 2 is an advantage or students should have satisfactory results in related subjects in Level 2.

Course Outline:

- a) Natural Processes - a study of a geographic environment illustrating the operations of processes and modification by human activity in the Rakaia River Catchment.
- b) Cultural Processes - study of the cultural process of Tourism.
- c) Geographic issues of local, regional or global importance; Research and fieldwork.

Credits Available:

Internal

Achievement Standards 12

External

Achievement Standards 12

Costs: Field trip approximately \$30 (approx).



Graphics – NCEA Level 1

Consult with: *Mr Pearce*

This course builds upon the skills taught in year 9 and 10. It follows a design and make format but is chiefly concerned with the graphical presentation of ideas.

Pre-requisites:

Pupils should have studied Graphics at year 9 and 10.

Course Outline:

There are three sections of work; Design and present a solution for an Architectural or Environmental brief, Technology and Engineering, and Media and Illustration. Pupils design outcomes to problems presenting their ideas using a range of graphical techniques. A computer aided design (CAD) unit standard delivered by CPIT also forms part of the course.

Credits available:

Internal

Achievement Standards 11

External

Achievement Standards 13

Costs: \$20

Graphics – NCEA Level 2

Consult with: *Mr Pearce*

If you are artistic, creative, enjoy designing, have an ability to understand mechanical drawing and have the perception for three dimensional concepts, this course is for you.

Pre-requisites:

18 credits or better in Level 1 is usually needed for most students to succeed at this level. Pupils have to have completed US2433 to progress on the CAD course.

Course outline:

This course follows on from Level 1. There are three sections of work, covered by design briefs; Design and present a solution for an architectural or environmental brief, Technology and Engineering and Media and illustration. Students use design processes to graphically solve problems. A CAD unit standard delivered by CPIT also forms part of the course.

Credits available:

Internal

Achievement Standards 12

External

Achievement Standards 12

Cost: \$20

Graphics – NCEA Level 3

Consult with: *Mr Pearce*

Pre-requisites:

18 credits from Level 2 Graphics are usually needed to be successful at Level 3.

Course outline:

There are three sections of work, Architectural or Environmental brief, Technology and Engineering and Media and Illustration. Pupils need to Negotiate a brief and a solution by applying a design process.

Credits available:

Internal
Achievement Standards 15

External
Achievement Standards 9

Cost: \$20



History - NCEA Level 1

Consult with: *Miss Baldwin*

The course is aimed to develop skills of historical research, and individual thinking and problem solving.

Pre-requisite:

There is no pre-requisite but strength in English literacy is advisable.

Course outline:

The course studies the clearly defined theme of 20th Century History and includes study of at least two of the following themes:

1. Race Relations
2. International Relations
3. Social change

Credits available:

Internal

Achievement Standards 9

External

Achievement Standards 15

History – NCEA Level 2

Consult with: *Miss Baldwin*

This course focus is on the theme of major forces shaping the modern world including 19th and 20th Century topics. It builds on the skills developed in Level 1 History.

Pre-requisite:

Study of History at Level 1 and good results in English Level 1 is advised.

Course Outline:

The course content involves at least two topics intended to enlarge the historical skills of the student.

Topics include:

- The origins of World War I
- The Russian Revolution
- Rise of Hitler and Nazi Germany
- Vietnam War

Practical work and a field trip to Arrowtown are an important part of the course.

Credits available:

Internal

Achievement Standards 12

External

Achievement Standards 12

Costs: Field trip cost approximately \$60 - \$80.

History – NCEA Level 3

Consult with: *Miss Baldwin*

Pre-requisite:

Study of History at Level 1 or Level 2 and good results in English Level 2.

Course Outline

The course is a progression from NCEA Level 1 and NCEA Level 2. It consists of:

- a) Practical work to encourage in depth research as part of the internal assessment component.
- b) Content for the external achievement standards is based on a broad Survey of New Zealand 19th Century history of at least two of the following themes:
 - Maori/Pakeha relations
 - Economic and political change
 - Society and attitudes

Credits available:

Internal

Achievement Standards 9

External

Achievement Standards 15



Home Economics – NCEA Level 1

Consult with: Ms Paterson

Pre-requisite:

None, (students who have studied Home Economics in Year 10 will have an advantage).

Course outline:

This is a Food and Nutrition Studies course that builds upon concepts and skills acquired in Home Economics in Years 7-10. Students will expand on their understanding of the New Zealand Food and Nutrition Guidelines, learn about the influences that affect our food choices, and menu planning based on the nutritional needs of individuals. They will further develop practical skills for everyday life and future employment. All assessments are two-parts with both written and practical aspects to each.

Credits available:

Internal

Achievement Standards	16
Unit Standards	4

External

Achievement Standards	5
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* *Maximum number of credits = 24 for any student.*

Depending on the needs of students, certain Achievement Standards may be replaced with equivalent Unit Standards. Course costs \$35.

Home Economics – NCEA Level 2

Consult with: Ms Paterson

Pre-requisite:

None (students who have studied Home Economics Level 1 will have a significant advantage)

Course outline:

This is a Food and Nutrition Studies course that builds upon concepts and skills acquired in Level 1 Home Economics. Students will continue to explore menu planning skills based on a variety of factors including feeding a family on a budget, and vegetarian eating. Half of the standards covered are internally assessed, with both a written and practical aspect. An in-depth study into the food choices and eating patterns of New Zealanders will be examined for one of the end of year external assessment. Course costs \$35.

Credits available:

Internal

Unit standards	12
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External

Achievement standards	8
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* *Maximum number of credits = 24 for any student.*



Information Management – NCEA Level 1

Consult with: *Miss Eastup*

This course involves 4 internal assessment components and 3 practical externally assessed papers. In addition to building upon the skills gained at junior level, students will apply planning, design, research, analysis and problem solving techniques.

Pre-requisite:

A reasonable level of competence demonstrated on the Year 10 ICT course (at least Achieved)

Course Outline:

7 Achievement Standards

Internal:

- Enter text from provided data and by direct entry composition (word processing).
- Use standard file operating and management procedures
- Accesses and process information from given media (research project)
- Apply a decision making model to produce a solution from a given brief

External:

- Communicate information by extracting from given materials
- Manage information using spreadsheets, text and paint/draw applications
- Apply design principles to produce documents

Credits available:

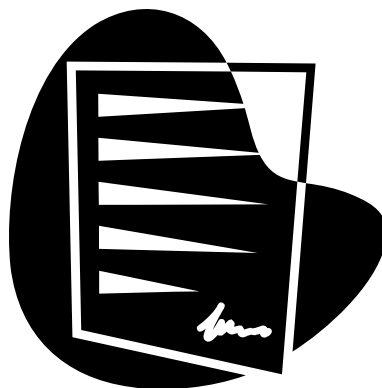
Internal

Achievement Standards 12

External

Achievement Standards 12

Costs: Allegro homework book, Ring binder folder, plastic wallets, dividers, printing (\$30.00) approx.



Mathematics – NCEA Level 1

Consult with: Mrs Davies-Stewart

All students are required to study mathematics in Year 11 and will be put into the appropriate classes by the mathematics staff based on prior results and study. Classes will do Achievement Standards, or Unit Standards or a combination of both depending on the strengths within the class.

Course Outline: The course has 9 basic topic areas; a selection of which will be studied during Year 11. These areas are:

- Algebra
- Geometry Design
- Graphs
- Number
- Trigonometry
- Geometry
- Statistics
- Measurement
- Probability

Credits Available:

Internal

Achievement Standards Up to 8
Unit Standards Up to 9

External

Achievement Standards Up to 16.

* *Maximum number of credits = 24 for any student.*

Costs: Graphics Calculator, papers and homework write on text \$125 (approx)

Mathematics – NCEA Level 2

Consult with: Mrs Davies-Stewart

Pre-requisite:

Mathematics is not compulsory in Year 12 but is a pre-requisite for many further studies; including in subjects other than some obviously mathematics based ones. Students will be put into different classes by the mathematics staff based on NCEA Level 1 results and approach to study within mathematics. Classes will do Achievement Standards, or Unit Standards or a combination of both depending on the strengths within the class.

Course Outline:

The courses have up to 10 units. A selection of these will be studied during Year 12 based upon appropriateness of study for the class:

- Algebra
- Sequences and Series
- Trigonometry Equations
- Statistics
- Calculus
- Graphs
- Trigonometry Problems
- Coordinate Geometry
- Probability
- Networks

Credits Available:

Internal

Achievement Standards Up to 7
Unit Standards Up to 13

External

Achievement Standards Up to 17

* *Maximum number of credits = 24 for any student.*

Costs: Graphics Calculator, papers and homework write on text \$125 (approx)
(Many students will have graphics calculators from Year 11).

Mathematics with Calculus – NCEA Level 3

Consult with: Mrs Davies-Stewart

This course builds on the Level 2 Mathematics course. It would be very difficult to take this course without doing the full year 12 Mathematics course.

Pre-requisite:

16 or more credits at Level 2 Mathematics. These should include 90284 Algebra, 90286 Calculus, 90291 Trigonometry and 90292 Trigonometric Equations **or in consultation with Mrs Davies-Stewart.**

Course outline:

The course has 9 units:

- | | |
|-----------------------------------|-----------------|
| ▪ Algebra | Differentiation |
| ▪ Applications of Differentiation | Trigonometry |
| ▪ Complex Numbers | Integration |
| ▪ Applications of Integration | Conic sections |
| ▪ Differential Equations | |

Credits available:

Internal

Achievement Standards 4
Unit Standards 2

External

Achievement Standards 17

* *Maximum number of credits = 24 for any student.*

Costs: Graphics Calculator, papers and homework write on text \$125 (approx)
(Many students will have graphics calculators from Year 11 or 12)

Statistics and Modelling – NCEA Level 3

Consult with: Mrs Davies-Stewart

Pre-requisite:

12 or more credits at Level 2 Mathematics. These should include 90289 Probability Problems & Normal Distributions and 90288 Sampling **or in consultation with Mrs Louise Davies-Stewart.**

Course Outline:

The course has 7 units:

- | | |
|------------------------|---------------------------------|
| • Time series | Bi-variate Data |
| • Curve Fitting | |
| • Confidence Intervals | Probability Problems |
| • Equations | Probability Distribution Models |

Credits Available:

Internal

Achievement Standards 9

External

Achievement Standards 15

Costs: Graphics Calculator, papers and homework write on text \$125 (approx)
(Many students will have graphics calculators from Year 11 or 12)

Music – NCEA Level 1, 2 and 3

Consult with: Mr Lee

Pre-requisite:

Having previous training in a musical instrument. –
Recommended 2 years or more of learning instrument for Level One
and 3 years or more learning of instrument for Levels Two or Three.
(Voice is an instrument)

Course outline:

NCEA Level 1 has six possible Assessment Units.

- Solo
- Group performance
- Composition
- Aural
- Identifying fundamental materials of music
- Musical Knowledge demonstrating the knowledge of different Music Works.

NCEA Level 2 has similar assessments as above. It is recommended that the student has studied NCEA Level 1 first.

NCEA Level 3 has offered four assessment units in either Practical **Recommend** that student has studied Level 1 and 2 first.
Music or Music studies.

Practical Music covers:

- Instrumentation
- Performance as a member of a group
- Composition
- Solo performance
- Aural

Music Studies covers:

- Study of expressive qualities of music
- Compare and contrast music works
- Research of music topic
- Understanding of tonal procedures in a range of music
- Arrangement of music

Credits Available:

All three levels offer 24 credits each.

Costs:

(Workbook, video etc) \$40 (approx)
Although not compulsory we encourage students to attend at least one concert in Christchurch per year. This would cost approximately \$40 plus travel and we go as a group.



Outdoor Education – Level 1, Level 2, Level 3

Consult with: *Mr Currie, Mr Roderick*

Pre-requisite:

Limited class size.

Course outline:

- Kayaking
- Tramping
- Mountain Biking
- Skiing/Snowboarding
- Mountain Craft
- Risk Management
- Rock Climbing

Credit's available:

Internal

Unit Standards 20

External nil

* *Maximum number of credits = 24 for any student.*

Costs: Transport, instructors, equipment hire etc \$750.00

Physical Education NCEA Level 1, Level 2, Level 3

Consult with: *Mr Roderick*

Pre-requisite:

Level 2 - 16 Level 1 Physical Education credits

Level 3 - 16 Level 2 Physical Education credits

Course Outline:

Level 2

- Anatomy/Biomechanics
- Risk Management/Outdoor Leadership
- Motor skills learning
- Sociology of Sport
- Exercise and Health.

Level 3

- Examination for a national health issue (obesity).
- Plan a Physical exercise programme.
- Develop a programme for Motor Skill improvement.

Credits available

Internal

Achievement Standards 20 at each level

External nil

* *Maximum number of credits = 24 for any student.*

Physics – NCEA Level 2

Consult with: *Mr Tod, Mrs Winter.*

Pre-requisite:

12 Credits from the external achievement standards in Science Level 1 including Science 1.6. Plus achieved or better in Level 1 Mathematics AS90147, 90153 and 90152.

Course Outline:

The course is 6 units:

- Measurement and Graphs
- Integrated Nature of Physics
- Mechanics
- Electricity and Electromagnetism
- Waves
- Atoms and Radioactivity.

Credits available

Internal

Achievement Standards 7

External

Achievement Standards 17

Costs: \$30 Work book (approx)

Physics – NCEA Level 3

Consult with: *Mr Tod, Mrs Winter.*

Pre-requisite:

It is expected that 16 credits at Level 2 in Physics have been achieved in order to move to Level 3 Physics.

Course Outline:

The course is 6 units:

- Practical skills.
- Practical Investigation.
- Mechanical Systems.
- Electricity and Electromagnetism.
- Wave Systems.
- Atoms and Radioactivity.

Credits available:

Internal

Achievement Standards 5

External

Achievement Standards 19

Costs: \$30 Work book (approx)

Science - NCEA Level 1

Consult with: Mrs Winter

This course covers the major strands of the Science curriculum –

- Living world
- Material world
- Physical world
- Astronomy

It is assessed by achievement standards. An alternative programme assessed by unit standards may be available depending on the makeup of the classes.

Students intending to continue their Science education into Level 2 are required to take the achievement standards course.

Credits available:

<i>Internal</i>	
Achievement Standards	7
<i>External</i>	
Achievement Standards	15

Alternative programme

Credits available:

<i>Internal</i>	
Unit standards	18
<i>External</i>	nil
* Maximum number of credits = 24 for any student.	

Costs : Approximately \$30.00 (workbook)

Science - NCEA Level 2

Consult with: Mrs Winter

This is a course designed for those students who wish to continue Science from Level 1 but not specialise. Students need 12 credits from Level 1 Science Achievement Standards.

Course Outline:

- Astronomy – cycle of stars
- Chemical properties and effects of fertilizers
- NZ Geological history
- Behaviour of Light
- Evolution of NZ plants and animals.

Credits available:

<i>Internal</i>	
Achievement Standards	7
<i>External</i>	
Achievement Standards	17

Costs : Approximately \$20.00 (workbook)

Year 13 Science

Consult with: *Mrs Winter and Mrs Pearce*

The Year 13 Science course is suitable for those students:

- Who need a broad science background for future careers such as Law, Commerce, Journalism, Media Studies, or Teaching.
- Who wish to study science based subjects in future years especially if the student is also taking one or more other science subjects.
- Who are interested in current science issues and wish to study a range of scientific topics

Year 13 Science will be assessed by 6 Achievement Standards and 1 unit standard in 2008 totalling 24 credits. 4 Standards worth 14 credits are internally assessed and 8 are externally assessed. Scholarship can also be taken in Y13 Science.

Internal Assessment:

1. **Case Study on a Scientific Controversy: (90728) – 4 credits**
The topic is chosen by the student
2. **A study of a recent Astronomical event or discovery: (90733) – 2 credits**
We will be studying the Kuiper Belt Objects – these are the objects which may be dwarf planets in our Solar System. Pluto is a Kuiper belt object and is now a called a dwarf planet.
3. **Report on an environmental issue: (US 6355) – 4 credits**
We will be studying fuels, their impact on Climate Change, and the potential of Biofuels.
4. **Practical Investigation: (90727)** The student carries out an investigation of their choosing.

External Assessment:

1. **Gene Technology: (90729)**
 - DNA and DNA replication, RNA and protein synthesis
 - Gene technology and associated ethical issues.
2. **Physical Phenomena : (90732)**
 - Sound and Ultrasound
 - Electromagnetic radiation
 - Radioactivity
2. **New Zealand's geological processes**
 - Tectonic movement
 - Volcanoes
 - earthquakes

Scholarship can also be taken in Y13 Science. Students need an in depth knowledge of the Y13 Science skills and knowledge plus the ability to critically analyse using these.

*** This course will only take place if there are sufficient numbers interested in taking this subject.**

Technology (Fabric) – NCEA Level 1

Consult with: *Ms Paterson*

This course builds upon the skills taught lower down in the school. Students work through commercial patterns to gain pattern reading and machine skills. Students work through the design process to design and construct garments using fabric.

Pre-requisites:

Pupils will have studied Home Economics in Year 10.

Course outline:

The students will be taking both unit standards and achievement standards in this course. They will be completing 3 briefs during the year. Students research a given problem and then design a solution to the problem. There is emphasis on both drawing and making skills. Portfolios are produced for each project.

Credits available:

Internal

Unit Standards 10

Achievement standard 11

* *Maximum number of credits = 24 for any student.*

Costs: \$30 (approx). As well as material and patterns used to make garments.

Technology (Hard Materials) – NCEA Level 1

Consult with: *Mr Pearce*

This course builds upon the skills taught lower down in the school. It teaches pupils to design and make products using resistant materials.

Pre-requisites:

Pupils will have studied Technology in year 10.

Course outline:

Depending upon progress, previous knowledge and ability, pupils will either take Unit Standards or Achievement Standards. The course content is the same; pupils identify a problem and an end user, research the problem and suggest solutions to the end user. The chosen idea is then realised and evaluated.

Credits available:

Internal

Unit Standards 20

* *Maximum number of credits = 24 for any student.*

Costs: Materials \$120 (approx)

Technology (Fabric) – NCEA Level 2

Consult with: Ms Paterson

This course builds upon the skills gained in Level 1 Fabric Technology to increase sewing machine skills, understanding of the function of fabric and designing for purpose and set stakeholders.

Pre-requisites:

In order to gain credits in Fabric Technology at Level 2, students **must** have completed credits in Fabric Technology at Level 1.

Course outline:

The students will be taking both unit standards and achievement standards in this course. They will be completing 3 briefs during the year. Students research a given problem and then design a solution to the problem. There is emphasis on both drawing and making skills. Portfolios are produced for each project.

Credits available:

Internal

Unit Standards 11

Achievement Standard 10

* *Maximum number of credits = 24 for any student.*

Costs: \$30 (approx). As well as material and patterns used to make garments.

Technology – NCEA Level 2

Consult with: Mr Pearce

This course builds upon Year 11 Technology and could lead to careers in the trades e.g. building or engineering.

Pre-requisites:

Students will have 16 credits in the Level 1 Technology course, but motivated students could start this level if Technology was studied in Year 10, after consultation with Mr Pearce or Mr Jenkins.

Course outline:

This course is a mixture of Unit and Achievement Standards. The design process is developed during two design and make assignments. Students are taught how to take ownership through finding a need, plan, and following technological practices to develop outcomes to problems.

Credits available:

Internal

Achievement Standards 6

Unit Standards 14

External nil

* *Maximum number of credits = 24 for any student.*

Costs: Materials \$120 (approx)

Technology – NCEA Level 3

Consult with: *Mr Pearce or Mr Jenkins*

This course is a natural progression from and builds upon the Level 2 course. The balance of standards and projects is flexible and will depend on the interests and abilities of students that opt for the course.

Pre-requisites:

Students will have 16 credits in the Level 2 Technology course, but motivated students with 16 credits at Level 1 Technology could be admitted after consultation.

Course outline:

This course is a Unit Standards based. Students will work with a variety of materials and draw upon the design and making skills taught at Level 1 and 2. It is hoped at this stage to offer some elements of metal work.

Credits available:

<i>Internal</i>	
Unit Standards	24
<i>External</i>	nil

Costs: Materials \$120 (approx)



Tourism – Level 2

Consult with: *Miss Baldwin*

Pre – requisite: Must be a Year 12 or 13 Student.

Course outline:

This is a unit standard course which offers students the opportunity to work towards the National Certificate in Tourism (Introductory Skills). Students will cover various topics in the subject including world tourist destinations and knowledge of the business of tourism.

Credits available:

<i>Internal</i>	
Unit standards, Level 2 credits	25
<i>External</i>	nil

Costs: \$30.00 for materials.

Tourism – Level 3

Consult with: *Miss Baldwin*

Pre – requisite:

If students wish to gain the National Certificate in Tourism (Introductory Skills) they need to have completed the Level 2 course. If you wish to choose this course and have not completed the Level 2 course, you will need to see Ms Baldwin.

Course outline:

This is a unit standard course which offers students the opportunity to work towards the National Certificate in Tourism (Introductory Skills). Students will cover various topics in this subject, including knowledge of Pacific Islands and Australia as tourist destinations.

Credits available:

<i>Internal</i>	
Unit Standards, Level 3 credits	24
<i>External</i>	nil

Costs: \$30.00 for materials.