

# **GORE HIGH SCHOOL**



## **YEAR 12 COURSE BOOKLET 2009**

## **SENIOR QUALIFICATIONS**

The National Certificate of Educational Achievement is the main qualification students will study towards at Secondary School. The Certificate is available at three levels. The NCEA is gained when a student earns 80 or more credits, 60 of which must be at the level of the certificate. These credits are achieved by successfully completing activities, which assess specific achievement standards or unit standards.

All courses at Year 11, 12 and 13 will enable credits to be earned. There are three levels of achievement that can be gained: achieved, achieved with merit, and achieved with excellence. In order to gain an NCEA qualification at all you must gain a minimum of 8 credits in Literacy and 8 credits in Numeracy at Level 1.

Some achievement standards will be assessed externally which means that someone outside the school will make judgements about the student work. For most subjects this will involve an exam at the end of the year. Where the assessment is to be internal, the classroom teacher will administer and mark the activity against nationally moderated guidelines.

## HOW TO CHOOSE YOUR SUBJECTS

**'Times have changed! Employment options are different.'**

To be more professional in industry, employers, businesses and organisations now invest in skill training. Four or five years of secondary school are NOW A REQUIREMENT for positions in the workforce. Students need to realise that learning does not stop when they leave school as the expectations of today's job market involve continued learning and upskilling.

**'We spend a long time working!'**

It is extremely important that students consider their career goals when choosing their subjects for next year. Teacher training, University study and Polytechnic courses all have entry requirements. Students need to know these requirements before they select their subjects.

**ABILITY + INTEREST + CAREER REQUIREMENT = SUBJECT CHOICE**

This means research your career choice to find out what subjects and grade levels are required to be studied at school. There is nothing worse than finding out in Year 13 that you cannot pursue your career pathway because you did not take the right subjects earlier.

There are no compulsory subjects at Year 12, although Mathematics and English are highly recommended, especially those students who will be enrolling in tertiary education.

**At Year 12:**

- **English and Mathematics are not compulsory but are strongly recommended.**
- **Students can only take both Technology Wood and Technology Metal with the express permission from the Head of Department.**
- **Students can enrol in either 12ALP OR 12PED.**
- **Correspondence is only available for subjects not offered at Gore High School.**

Alternative options for individual courses are available in Years 11, 12 and 13. e.g. Alternative English, Mathematics with Application and Alternative Science. Credits from achievement in these courses are frequently requirements for Polytechnic entry. These courses can include both unit and achievement standards.

NB: To achieve University Entrance, students must have 8 Level 2 English credits and 14 Level 1 or above Mathematics credits as well as achieving NCEA Level 3 in three approved subjects with a total of no less than 14 credits in each subject.

If you are not sure what subjects are required make sure you seek career advice from Career Pathways. Information is available in Career Pathways on career databases and KiwiCareers – [www.kiwicareers.govt.nz](http://www.kiwicareers.govt.nz). There you will find every imaginable career training course in New Zealand plus access to information on 700 jobs. The Careers Advisers (Mrs McDonald and Mrs Stewart) are happy to give advice to any student and their parents. Seek this information and look ahead.

# YEAR 12 SUBJECTS

## **ACCOUNTING - 12ACC**

**Course Length:** One year

**Cost:** Approximately \$30 (Workbooks)

**Entry Requirements:** 14 credits or improve in NCEA Accounting Level 1 or 14 credits or improve in both NCEA Level 1 Mathematics and English.

### **Course Outline:**

Achievement Standards

Subject	No.		External/ Internal	Credits
Accounting	2.1	Describe the conceptual basis of accounting for a sole proprietor	E	3
Accounting	2.4	Demonstrate an understanding of processes for accounting subsystems	E	5
Accounting	2.5	Prepare financial statements and relate accounting entries for sole proprietors	E	5
Accounting	2.6	Analyse and interpret information and make recommendations for a sole proprietor	E	4
Accounting	2.7	Use computer software to process financial transactions for a sole proprietor	I	3

Internal Credits = 3

External Credits = 17

Total Credits = 20

**Assessment:** One internal assessments and external examinations.

**Where does it lead?** Advanced studies at NCEA levels are available.

## **ADVENTURE LEADERSHIP OPTION – 12ALP**

**Course length:** One year

**Cost:** \$500.00

**Entry Requirements:** Letter of recommendation from a staff member.

### **Course Outline:**

Unit Standards

Subject	No.	Description	Internal	Credits
OR	13351	Participate in different adventure learning activities	I	3
OR	13352	Participate in Outdoor Pursuit activity	I	3
OR	20818	Demonstrate kayaking skill on sheltered or slow moving water	I	2
OR	444	Demonstrate basic rock climbing movement	I	1
OR	20157	Demonstrate the use of basic rope systems for top rope climbing and absailing	I	3
OR	6400	Manage first aid in emergency situations	I	2
OR	6401	Provide first aid	I	1
OR	6402	Provide resuscitation	I	1
OR	425	Experience day tramps	I	3
OR	426	Experience camping	I	3

Total Internal Credits = 18

Total Credits = 22

A mix of practical and classroom based units of work. Topics covered are: adventure based learning, first aid, risk management, environmental sustainability, outdoor equipment such as clothing and packs, a major focus are the outdoor pursuits which include rock climbing, kayaking, tramping and camping in snow.

The classroom work is focused on developing the skills and knowledge to be able to participate safely and effectively in the practical activities. Practical work will not only focus on developing the skills associated with the activities listed

above but also looks at how you can most effectually pass these skills on to others. Students will be given opportunities to be able to lead their peers, as part of the Year 10 Borland Camp in Term 2 and any other opportunity that can be created.

**Assessment:**

Assessment is unit standard based according to the New Zealand Qualifications Authority, The unit are internally assessed by the Gore High School or an external provider.

**Where does it lead?** Year 13 Physical Education or tertiary study in the fields of Outdoor Education and Adventure Recreation.

**AGRICULTURE - 12AGR**

**Course Length:** One year

**Cost:** Field trips approximately \$20.00

**Entry Requirements:** A satisfactory Year 11 agricultural or science performance.

**Course Outline:**

This course looks at aspects of agricultural and horticultural production. Topics covered are:

- The farming environment
- Soils
- Livestock reproduction – growth, development and behaviour

And how management decisions that relate to these areas are modified to effect animal and plant productivity.

This course is based entirely on Achievement Standards.

No.	Description	External/ Internal	Credits
2.1	Carry out a practical agricultural or horticultural investigation with supervision	I	4
2.2	Describe physical factors of the environment and techniques used to modify these for plant production	I	4
2.3	Describe management practice(s) used to optimise the soil water/air ratio for plant processes	E	4
2.4	Describe methods used to modify livestock reproduction or plant propagation	E	4
2.5	Describe growth and development and productivity in livestock or plants	E	4
2.6	Describe how livestock behaviour impacts on productivity	E	4

Internal Credits = 8

External Credits = 16

Total Credits = 24

Additional courses with unit standards are offered by external providers.

**Where does it lead?** Polytechnic, Lincoln or Massey University, employment in agricultural or horticultural industries.

**ALTERNATIVE ENGLISH - 12ENA**

**Course Length:** One year

**Cost:** Nil

**Entry Requirements:** This course provides a practical English course for students who have gained 8-12 Level One English credits.

**Course Outline:**

This course provides practical English skills with a focus on improving the student’s ability to express him or herself clearly. Students work through a range of internally assessed Unit Standards.

This course provides some Level 2 credits, but NOT those required for University Entrance. Depending on the needs of individual students, some Level One standards may also be offered.

Standard No.	Description	Credits
1273	Express Ideas in Writing (Level 1)	4
8812	Produce formal writing (Level 1)	4

12905	Read an inclusive range of texts	4
2989	Read and assess texts to gain knowledge	4
3492	Write a short report	3

Level One credits: 8 (all internally assessed)

Level Two credits: 11 (all internally assessed)

**Where does it lead?** It leads to a full Level 2 NCEA course, tertiary courses (other than University) or the workforce.

## **BIOLOGY - 12BIO**

**Course Length:** One year

**Cost:** Approximately \$80.00 (includes Field trip)

**Entry Requirements:** Students should have gained credits in three Level 1 Science Achievement Standards, including achievement in Science 1.1 and 1.3. Entry of students who have not met this standard will be at the discretion of the HOD Science.

### **Course Outline:**

- (1) Ecology - Ecology of individual populations, communities, ecosystems conservation and ecological issues. Field trip to Borland Lodge.
- (2) Cell Structure and Processes - Microscope work on cell structure and cell processes, including enzyme activity, photosynthesis and respiration.
- (3) Diversity in Animals - Animal structure and function (transport, gas exchange).
- (4) Genetics and Evolution - Examine the scientific case for evolution and explain how genetic variation and natural selection can lead to changes with populations.
- (5) Biotechnology - The processes and techniques used in applied biology (e.g. beer making, genetic engineering, kidney transplants).

**Skills:** Designing experiments, gather information and record observations, analysis of evidence, researching issues.

**Assessment:** The Achievement Standards and Unit Standards that will be assessed are:

No.	Description	External/ Internal	Credits
2.5	Concepts and processes in ecology	E	3
2.4	Investigate an interrelationship in a community	I	3
2.8	Cell structure and function	E	3
8928	Use a microscope to investigate biological material	I	3
2.1	Carry out a practical investigation with supervision	I	3
2.3	Genetic change and variation	E	3
2.2	Research an applied biology technique	I	2
2.6	Diversity in structure and function – animals	E	3

Internal credits = 11

External credits = 12

Total Credits = 23

**Where does it lead?** NCEA Level 3 Biology, polytechnic nursing, New Zealand Certificate of Science courses, occupational therapy, university biology courses, optometry, medical degree, horticulture/agriculture fields, veterinary science.

## CHEMISTRY - 12CHE

**Course Length:** One year

**Cost:** Approximately \$30 (Student Workbook)

**Entry Requirements:** Students should have achieved NCEA Science Achievement Standard 1.4. Entry of students who have not met this standard will be at the discretion of the HOD Science.

**Course Outline:** The course follows the Chemistry Achievement Objectives of the "Chemistry in the New Zealand Curriculum". Content areas at this level include:

- Atomic Structure, bonding, and related properties.
- Acids and bases.
- Quantitative Chemistry (Chemical Calculation and Measurement).
- Organic Chemistry.
- Energy and Equilibrium.

Students carry out many experiments through the year.

**Assessment:** NCEA Level 2

No.	Description	External /Internal	Credits
2.1	Carry out qualitative analysis (practical test)	I	3
2.2	Carry out an acid-base volumetric analysis (practical test)	I	3
2.3	Solve simple quantitative chemical problems	I	2
2.4	Describe the nature of structure and bonding in different substances	E	4
2.5	Describe the structural formulae and reactions of compounds containing selected organic functional groups	E	4
2.6	Describe thermo chemical and equilibrium principles	E	5
2.7	Describe oxidation-reduction reactions	E	3

Internal credits = 8

External credits = 16

Total Credits = 24

**Where does it lead?** Students with good NCEA Level 2 grades may choose to study chemistry at NCEA Level 3. Chemistry is a pre-requisite for many jobs and tertiary courses. It is seen as being very useful in areas such as health, agriculture and scientific research.

## COMPUTER STUDIES - 12COM

**Course Length:** One year

**Cost:** \$50.00

**Entry Requirements:** None

**Course Outline:**

This course aims to:

- Develop core computer skills for use in the workforce and industry.
- Teach you how computers work and how to maintain them.
- Enable you to use the common types of computer software.
- Provide sound basis for further education in a career in computing.

**Course Requirements:**

We are working within the New Zealand Qualifications Authority Framework system. Credits gained will count towards the National Certificate in Computing, Level 2. To gain a certificate, we offer the following 31 credits, which you must complete. A minimum of 10 credits at Level 2 or above is required from unit and/or achievement standards from anywhere on the National Qualifications Framework.

Compulsory Unit Standards (12 credits)

No.	Description	Credits
2780	Operate and maintain a personal computer system (compulsory)	9
2781	Manage and protect data in a personal computer system (compulsory)	3

111	Use a word processor to produce documents	5
2784	Create and use a simple computer spreadsheet to solve a problem	3
2786	Create and use a simple computer flat file database to solve a problem	3
2788	Produce a simple desktop published document to meet a set brief	3
5941	Exchange messages using electronic mail	2
5946	Use computer technology to present a computer topic	3

Total Credits = 31

Assessment of these Unit Standards is competency based. To gain a credit you must pass the whole Unit Standard, meeting all criteria. You need to be motivated and be able to work individually and independently.

## CONNECTION COURSES 2009

Year 12 and 13 students may have the opportunity to undertake pre-tertiary courses in 2007. There are two main options available via Distance Learning or through the Gateway programme and Star Taster Courses

Only students who meet the required criteria will be eligible.

### DISTANCE LEARNING

As well as the four courses listed below there may be other courses available by Distance Learning from other providers (e.g. Universities, Open Polytechnic etc) throughout New Zealand. Please see the Careers Department to see if they are available, or if you have any queries. Students will have to contribute to the cost of these courses, as well as having to pay a \$50.00 bond, which will be refunded at the successful completion of the course.

Students must be **motivated to work independently** and be able **to meet deadlines**.

The following courses are available:

### Telford Rural Polytechnic

These units will provide students with the opportunity of studying towards certificates in **Agriculture**, **Equine**, **Forestry**, and **Bee keeping**

**If you are interested in this programme, please write 'Distance learning' on your option sheet.**

## GATEWAY What is it?

This programme gives some students the opportunity to gain qualifications in a career they are motivated to pursue for the future. It is structured workplace learning, which involves linking with learning at school.

- The learning is designed, planned and monitored
- Workplace learning is assessed and gains NCEA credits

Possible areas of learning

- |               |               |              |                 |
|---------------|---------------|--------------|-----------------|
| • Retail      | Horticulture  | Engineering  | Equine          |
| • Agriculture | Automotive    | Building     | Turf Management |
| • Hospitality | Joinery       | Hairdressing |                 |
| • Tourism     | Boat building | Butchery     |                 |

This would be available as a subject as part of your course structure and will involve half to one day a week in the workplace.

If you are interested in participating in this program please write "**Gateway**" on your option sheet as a subject and you will need to complete a separate Gateway application form, available from student reception (green form) Please return form to student reception.

**This course will depend on expressions of interest and Ministry of Education funding.**

**All interested students will be required for an interview to assess suitability.**

## **Out of School Taster Courses**

(Partially or fully funded by STAR)

The following courses **may** be available next year, some possibly during term time. They will be advertised throughout the school year on the daily notices, and information and registration will be with Mrs Delahunt in the Gateway office (B10)

- Beyond the Camera (Television and film; in front of, and behind the camera).
- Hospitality Courses (Food and beverage – restaurant, café).
- Broadcasting (Aoraki Polytechnic).
- Graphics and Design (Computer based).
- Beauty Therapy.
- Hairdressing.
- Personal Training.
- Sports Performance Coaching and Management.
- Outdoor Pursuits.
- Automotive.
- Engineering.
- Joinery.

## **DRAMA – 12DRA**

**Entry Requirements:** Students must have completed to Year 11 Drama. Entry will be subject to an interview. The assessment for this course is structured to enable students to work at their own level. All students will be assessed on a combination of the following internally assessed standards.

**Costs:** Drama Workbook \$5.00 and costs see visiting artists which may involve a small amount of travel to see at least one professional show.

**Course outline:** The course requires both performance and written work, and will focus on a reflective model of learning and improving technique.

No.	Description	External/ Internal	Assessment method	Credits
90300	Use drama techniques	I	Performance/portfolio	3
90301	Use elements and conventions to devise, structure and perform a drama	I	Drama performance/portfolio	4
90302	Demonstrate knowledge of a drama theatre form through a practical presentation	I	Presentation/performance/ Portfolio	5
90303	Perform a substantial acting, technical or production role	I	Performance/portfolio	5
90011	Understand and reflect on drama processes and performances	E	Written examination	5

Total credits = 18.

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

To NCEA Level 3 Drama, further study in the Performing Arts at tertiary level (as well as University) to a possible career in the Performing Arts industry.

## **ECONOMICS - 12ECO**

**Course Length:** One year

**Cost:** \$22 workbook

**Entry Requirements:** Fourteen credits or better in NCEA Economics Level 1 or 14 credits or better in both NCEA Level 1 Mathematics and English.

**Course Outline:**

A study of the New Zealand economy based around four main topics:

- Trade - New Zealand's place in world trade.
- Inflation - a look at the effect of prices and the effects of methods used to control inflation.
- Growth - a look at how growth of the economy impacts on employment, inflation and trade.
- Government policies.

**Assessment:**

No.	Description	External/ Internal	Credits
2.1	Describe inflation and its causes and effects using economic models	E	4
2.2	Describe international Trade and its causes and effects using economic models	E	4
2.3	Describe economic growth and its causes and effects using economic models	E	4
2.5	Describe Government Policies in relation to economic issues	E	6
2.4	Process, present and analyse statistical data in relation to given economic issues	I	6

Internal Credits = 6

External Credits = 18

Total Credits = 24

## ENGLISH - 12ENG

English is not compulsory at Year 12, but will be needed by all students who are planning to go to university. At this level, English becomes more academic and focuses on the analysis of literary texts (films, novels, plays, short stories and poetry). Formal writing skills become very important.

This course will suit students who plan to take Level Three English, or who need Level Two English credits to meet the literacy requirements for University Entrance. It offers a range of Achievement Standards and the chance to develop analytical and writing skills. More than half of the available credits will be offered through the end of year examination.

**Entry Requirements:** Achieving at least 12 Level 1 credits, including at least two externally assessed standards.

**Cost:** Approximately \$20.00 (optional)  
NCEA Level 2 English Revision book

**Course outline:**

No.	Description	Internals/ Externals	Literacy for University Entrance	Credits
90376	Produce Crafted Transactional Writing	I	Writing	3
90375	Produce Crafted Creative Writing	I	Writing	3
90381	Investigate a language or literature topic	I	Reading	3
90377	Analyse extended written texts	E	Reading or Writing	3
90378	Analyse short written texts	E	Reading or Writing	3
90379	Analyse a visual text	E	Reading or Writing	3
90380	Read and analyse unfamiliar text	E	Reading	3

Internally assessed = 9

Externally assessed = 12

Total Credits = 21

**Where does it lead?** To NCEA Level 3 English.

## FOOD & NUTRITION - 12HOM

**Course Length:** One year

**Cost:** \$90.00

**Entry Requirements:** Previous study in this subject would be an advantage but not essential

**Course Outline:** This course is open to all students regardless of previous Food & Nutrition work undertaken. It will contribute 18-24 credits towards Level 2 NCEA. It consists of both unit standards and/or achievement standards. The units offered ensure new skills are experienced and developed. Students will be involved in group and individual activities and will be encouraged to develop initiatives, confidence and independence in the choice and use of food, with some work on living environments and human development being included.

**Assessment:** Unit standards

No.	Description	Internal	Credits
6644	Provide nutritious food for a vegetarian	I	6
6645	Provide nutritious low cost food for a family	I	6
6646	Develop a food product	I	5
15626	Demonstrate use of multi function equipment in meal preparation	I	4
6640	Describe and prepare locally available food	I	6

**Assessment:** Unit Standards

Total Internal Credits = 27

**Where does it lead?** Food industry, Chef, Hotel hospitality, Nanny, Life skills, Café assistant. Year 13 Hospitality and Service Industry.

## FRENCH - 12FRE

**Course Length:** One year

**Cost:** Nil

**Entry Requirements:** A satisfactory performance in NCEA Level 1.

**Course Outline:** This course emphasises practical aspects of French used in everyday life. Topics will be chosen from the following – fashion, young people and their relationships, health, a French-speaking country, New Zealand, technology, daily life, a French film.

**Assessment:**

Achievement Standards

No.	Description	External/ Internal	Credits
2.1	Listen to and understand spoken French in less familiar contexts	E	6
2.2	Give a prepared presentation in French for a less familiar context	I	3
2.3	Sustain a conversation in French in a less familiar context	I	3
2.4	Read and understand written language in French in less familiar contexts	E	6
2.5	Write text in French on a less familiar topic	E	3
2.6	Produce crafted writing in French on a less familiar topic with the support of resources	I	3

Internal Credits = 9

External Credits = 15

Total Credits = 24

**Where does it lead?** To Year 13 and university study. (Students who study international languages are well prepared for employment in today's increasingly global economy)

## GEOGRAPHY - 12GEO

**Course Length:** One year

**Cost:** \$60.00 (Trip to Dunedin)

**Entry Requirements:** Good reading and writing skills (It is not essential to have done Year 11 Geography) HOD discretion.

**Course Outline/Assessment:**

No.	Description	External/ Internal	Credits
2.1	Explain natural landscapes	E	3
2.2	Explain urban settlements	E	3
2.4	Apply skills and ideas in a geographical context	E	4
2.5	Conduct guided geographic research	I	5
2.6	Explain a contemporary geographic issue	I	3
2.7	Explain a global study	I	3

Internal Credits = 11

External Credits = 10

Total Credits = 21

**Specific Topics**

- 2.1 Southland Syncline; Amazon Basin.
- 2.2 Dunedin; Singapore.
- 2.4 A variety of skills and geographic ideas.
- 2.5 Roundabout study.
- 2.6 Illegal logging in Borneo.
- 2.7 Desertification.

**Where does it lead?** To Year 13 Geography. Polytechnic courses, e.g. Tourism.

**GRAPHICS - 12GRA**

**Course Length:** One year

**Cost:** \$10.00

**Entry Requirements:** Experience preferred. New students would be considered by HOD.

**Course Outline:** The course aims to present a challenging and creative environment for students interested in drawing and designing. The course builds on knowledge already gained in previous levels and uses the design process to extract information. No external examination is involved, as design portfolios are submitted as evidence. Some unit standards may be included into the design briefs offered. The level of attainment expected is a natural progression from Year 11. Changes may occur to enhance student learning.

**Assessment:**

Examples of possible Achievement Standards

No.	Description	External/ Internal	Credits
2.1	Produce two and three dimensional freehand sketches	E	3
2.2	Produce orthographic drawings	E	2
2.3	Produce two-dimensioned and three-dimensioned instrumental drawings	E	4
2.4	Describe and explain design and its implications for society	E	3
2.5	Produce a mock-up and model to explore design ideas	I	3
2.6	Design and present a solution for an architectural or environmental brief	I	3
2.7	Design and present a solution for an engineering or technological brief	I	3
2.8	Design and present a solution for a media or technical illustration brief	I	3
7491	Develop and refine design solutions	I	3
7507	Use freehand sketching techniques to show design development.	I	4

Internal Credits = 12

External Credits = 12

Unit Standards = 7

Total Credits = Students may take up to the maximum of 31 credits.

**Where does it lead?** To Year 13 Graphics and further studies at Polytechnics or Universities. Related occupations like Architect, Surveyor, Product Design, Media Design, Landscape Architect and Interior Designer, etc.

## HISTORY - 12HIS

**Course Length:** One year

**Cost:**

**Entry Requirements:** Good reading and writing skills (It is not essential to have done Year 11 History)

### Course Outline:

Themes and topics from the 19th and 20th Century.

1. Government and Political Change: Russia in Revolution
2. Nationalism, International Relations and the Search for Security: The Origins of World War One
3. The Weimar Republic and Nazi Germany

### Assessment:

No.	Description	External/ Internal	Credits
2.1	Plan and carry out an historical inquiry	I	4
2.2	Communicate an understanding of historical ideas	I	4
2.3	Examine evidence in historical sources	E	4
2.4	Examine and demonstrate empathy for the perspectives of people in an historical setting	I	4
2.5	Examine a force or movement that influenced people's lives in an historical setting, in an essay	E	4
2.6	Examine individual or group identity in an historical setting, in an essay	E	4

Internal Credits = 12

External Credits = 12

Total Credits = 24

### Where does it lead?

To Year 13 History. With tertiary study, History can lead to careers in Journalism, Foreign Affairs, Commerce, Law, Tourism, Libraries, Teaching and Politics.

## HOSPITALITY & SERVICE INDUSTRY – 12HSI

**Course Length:** One year

**Cost:** \$115.00

**Entry Requirements:** Previous study in the Foods area would be an advantage but not essential

\$90.00 for food purchases.

\$25.00 workbook and assessment materials

This course is open to all students regardless of previous Food and Nutrition work undertaken. All work is internally assessed. The course is based on the Hospitality Standards Industry units gaining credits towards the Foundation Certificate in Cookery. The course enables students to work at their own pace aiming to cover at least eight units throughout the year. Students taking this course in Year 12 have the opportunity to continue working towards this certificate in Year 13. These units have recognition throughout the hospitality industry and can be credited towards NCEA Level 2. Due to the continual development the selection of the Unit Standards may change.

**Assessment:** Possible units may include

No.	Description	Credits
167	Practice food safety methods in a food business	4
13276	Cook food by grilling in a commercial kitchen	2
13283	Prepare and present salads for service in a commercial kitchen	2
13285	Handle and maintain knives in a commercial kitchen	2
13281	Prepare and present basic sandwiches for service in a commercial kitchen	2
13271	Cook food by frying in a commercial kitchen	2

22234	Compare characteristics of international dishes and prepare and present International dishes.	4
13272	Cook food by baking in a commercial kitchen	2

Total Credits = 20

**Where does it lead?** Food industry, Chef, Hospitality, Café assistant and 13HSI.

## MATHEMATICS - 12MAT

**Course Length:** One year

**Cost:** Approx \$15.00 (Homework book)

**Entry Requirements:** Satisfactory performance in NCEA Level 1 Mathematics including at least an Achieved grade in any three of Level 1 Algebra/Statistics/Graphs/Trigonometry Achievement Standards

**Course Outline:** Covers material based on level 7 of the MINZC curriculum statement.

Major emphasis: Algebra, Probability, Graphs and Calculus (introduction).

**Calculators:** Pupils are encouraged to obtain and use a graphical calculator (Cost approximately \$100.00)

**Assessment:** Assessment is via Level 2 Achievement Standards as outlined below.

Level	No.	Description	External/ Internal	Credits
2	2.1	Manipulate algebraic expressions and solve equations	E	4
2	2.2	Sketch and interpret non-linear graphs	E	3
2	2.3	Find and use straightforward derivatives and integrals	E	4
2	2.4	Solve problems using a coordinate geometry method	E	2
2	2.6	Simulate probability situations, and apply the normal distribution	I	2
2	2.7	Solve straightforward problems involving sequences	E	2
2	2.8	Solve practical trigonometry problems	I	2
2	2.9	Solve straightforward trigonometric equations	E	2

Internal Credits = 4

External Credits = 17

Total Credits = 21

**Where does it lead?** Satisfactory performance allows a pupil to enter Year 13 MAC (Calculus) and/or Year 13 MAS (Statistics Modelling).

## MATHEMATICS APPLIED II - 12MAP

**Course Length:** One year

**Cost:** Nil

**Entry Requirements:** None

**Course Outline:** The emphasis is on the practical application of basic mathematical knowledge to everyday situations. The topics covered will be relevant to life in the workforce. The Unit Standards will be at Level 1.

**Assessment:** Assessment will be by Unit Standards by Level 1

Level	No.	Description	Credits
1	5227	Number Solve problems involving time and money	3
1	5224	Number Use decimals and percentages to solve problems	2
1	5225	Number Use fractions, ratio, and proportion to solve problems	2
1	5234	Number Use calculations in money situations	3
1	5230	Statistics Carry out a statistical investigation and interpret data	3
1	5228	Measurement Take measurements and use them in calculations to solve problems	2
1	5231	Geometry Use constructions and drawings.	2
1	5236	Trigonometry Use Pythagoras' Theorem and trigonometry to solve problems involving right-angled triangles	2

Total Credits = 19

## MATHEMATICS WITH APPLICATION - 12MWA

**Course Length:** One year

**Cost:** Nil

**Entry Requirements:** Satisfactory performance in NCEA Level 1 Mathematics.

**Course Outline:** The course will consist of several areas of study with emphasis being given to application of mathematics in real world examples, e.g. money and finance calculations. Algebra will be included but not to the same extent as the 12MAT course. There will be some overlap with the 12MAT course in the statistical area.

**Assessment:** Assessment will be via unit standards as outlined below.

### Unit Standard

Level	No.		Description	Credits
1	5236	Trigonometry	Use Pythagoras' Theorem and trigonometry to find unknowns in right-angled triangles.	2
2	90290/2.7	Sequences	Solve straightforward problems involving both arithmetic and geometric sequences.	2
2	5249	Networks	Use networks to find optimal solutions to problems in geometry.	2
2	5251	Trigonometry	Choose and apply trigonometric methods to solve problems involving lengths and angles.	3
1	7568	Algebra	Use formulae to solve problems and describe rates from graphs.	2
2	12318	Surveying	Use surveying techniques and mathematics to solve problems relating to maps or plans.	3
1	12328	Maths History	Demonstrate knowledge of the history of a mathematical topic or mathematician.	2
2	12332	Statistics	Demonstrate knowledge of the measures and displays used to compare data sets.	2
1	20659	Algebra Skills	Demonstrate basic algebra skills.	2
2	90289/ 2.6	Probability	Simulate probability situations and apply the normal distribution.	2

Total Credits = 20

### Where does it lead?

This is designed to be a stand alone course. It may, in some cases, and only with the Head of Department's approval, be used as a pre-requisite for Year 12 MAT or Year 13 MAS.

## MUSIC – 12MUS

**Course Length:** One year

**Cost:** Workbook approximately \$25  
Itinerant Music Lessons if required \$32 per year  
Blank CD

**Entry Requirements:** Year 11 Music or theory knowledge of Grade 3. Students also need to be learning an instrument (or singing).

**Prerequisite:** Pupils need at least three years of practical performance on any instrument, or singing lessons and have reached a satisfactory standard of performance.

### Course Outline/Assessment:

Depending on the student's prior knowledge, unit standards may replace some of the achievement standards offered.

### Achievement Standards

Subject	No.		External/ Internal	Credits
Music	90264	Perform contrasting performances as a featured soloist	I	5
Music	90265	Present a music performance as a member of a group	I	2
Music	90266	Compose effective pieces of music	I	5
Music	90268	Identify, describe and transcribe elements of music through listening to a range of music	E	3
Music	90269	Demonstrate an understanding of the materials and processes of music in a range of scores	E	2
Music	90270	Demonstrate knowledge of music works	I	5

Internal Credits = 17

External Credits = 5

Total Credits = 22

**Where does it lead?** Year 13 Music. This subject can lead to careers and further training in the associated industry – teacher, performer, arranger and sound engineer.

## PHYSICAL EDUCATION – 12PED

**Course Length:** One year

**Cost:** Approximately \$500 for Kayaking Camp, Snow Camp and Ice Skating.

**Entry Requirements:** NCEA Level 1 Physical Education with a minimum of Achieved in the following unit – PE1.2. Also students must have shown commitment to study at Level 1 PE. Successful completion of Year 11 Sports & Recreation, including an Achieved in 1.2 and with the permission of the HoD HPE. Students who have not met this standard will need permission from HOD PE. Modifications to the course outline may result from NCEA changes or as a result of student needs.

### Course Outline:

No.	Description	Internal	Credits
2.2	Describe how functional anatomy and biomechanical principles relate to performing physical activity	I	4
2.3	Examine principles and methods of training in relation to participation in physical activity	I	3
2.4	Examine skill learning principles and psychological skills in relation to physical activity	I	2
2.5	Perform a physical activity to meet the Physical Education Performance Standards for Level 2	I	4
2.7	Plan, apply and review leadership strategies in a group or team physical activity	I	3
2.8	Demonstrate knowledge of safety issues and apply safety management procedures in a physical activity	I	2
Unit standard 12543	Apply knowledge of exercise physiology to physical activity	I	3

Total Internal Credits = 21

Intensive academically, but highly practical and adventurous covering such practical areas as ice skating, kayaking, cross country skiing as well as training methods, fitness and leadership. Leadership sees the students taking part in the Kiwi Leadership Programme in a Primary/Intermediate school.

**Assessment:** Practical skill assessment in cross country skiing, ice-skating, kayaking and Kiwi leadership and completion of written assessment tasks.

**Where does it lead?** To Year 13 Physical Education and Year 13 Outdoor Education. Level 2 credits can contribute to entry to tertiary study.

## PHYSICS - 12PHY

**Course Length:** One year

**Cost:** Approximately \$25.00 for Physics course manual and \$18 for Physics Software

**Entry requirements:** Level 1 – Understanding aspects of Physics Achievement Standard and at least four credits in Level 1 Mathematics.

**Course Outline:** The course aims to teach and develop the understanding of key ideas in Physics that can be found in machines and inventions of our technological society. Topics covered are waves, mechanics, atoms and radioactivity and electricity. The department has recently been re-equipped to a high standard and students have plenty of opportunity to carry out experimental work with excellent resources.

### Assessment:

No.	Description	External/ Internal	Credits
2.1	Collect and analyse experimental data	I	4
2.3	Demonstrate understanding of waves	E	4
2.4	Demonstrate understanding of mechanics	E	6
2.5	Demonstrate understanding of atoms and radioactivity (This topic could also be delivered by a internal Unit Standard)	E	2
2.6	Demonstrate understanding of electricity and electromagnetism effects	E	5
2.7	Demonstrate understanding of Physics in an integrated nature	I	3

External Credits = 17

Internal Credits = 7

Total Credits = 24

**Where does it lead?** Many technical and analytical skill based courses need Physics as a basic entry requirement. It teaches invaluable skills of problem solving and knowledge about the laws that govern the universe we live in. It is a vital subject for those who want to know more about the physical world around them.

## TECHNOLOGY FABRIC – CLOTHING – TEXTILES – 12TEF

**Course Length:** One year

**Cost:** \$30.00

**Entry Requirements:**

### Course Outline:

This course contributes 18-24 credits toward Level 2 NCEA. The course consists of 2 units of work, each incorporating a number of units. The units offered ensure new skills are experienced and developed in both the design and practical areas focussing on Level 7 of the Technology Curriculum which addresses the requirements of technological practice. Unit standards provide a more practical aspect to the subject with a variety of outcomes able to be completed. \$10 of the fee covers a student workbook.

For those who have completed Level 2 units at Year 11, there is an opportunity to continue through to Level 3 after completing both units of work. Alongside the programme offered, the students have the opportunity of entering various awards – NZ Secondary Design Awards, Hokonui Fashion Awards and the local Southland Secondary HETTANZ Awards.

**Assessment:** Examples of units to be offered

### Unit 1

No.	Description	Credits
6664	Design and make an item for a living environment	6
6688	Incorporate applied design to fabric	6

### Optional:

6686	Create Fabrics	7
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### Unit 2

16837	Prepare for and produce fashion drawings	3
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**Plus 1 of the following:**

6690	Plan for and construct a tailored shirt	6
6691	Plan for and construct a lined skirt	6
6692	Prepare for and construct a leisure garment	5
6694	Prepare for and construct active wear	5
6696	Prepare for and construct a child's garment	6

**Optional:**

6685	Adapt a commercial pattern for a garment	5
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Total Credits = 20-21 plus optional 12

Level 3 units available – See course outline Year 13 Fabric Technology.

**Where does it lead?** To Technology Fabric Year 13 and other Technology based courses. Fashion design/industry, university, and polytechnic. Interior Design courses.

**TECHNOLOGY METAL – 12TEM**

**Course Length:** One year

**Cost:** \$85.00 initially dependent on materials used

**Entry Requirements:** New entrants to get approval from HOD

**Course Outline:** This course is based around students making practical solutions to given problems. It involves students researching into existing solutions and then designing/making. The main material will be metal, but other material may be used to enhance the final outcomes. . There is NO end of year examinations as assessments are taken from the work during the year.

**Type of Assessment Standards:** A mixture of NZQA achievement standards, unit standards and Industry Training Organisation unit standards may be incorporated into the course. Changes may occur to enhance student learning.

**Examples of possible standards:**

No.	Description	Externals/ Internals	Credits
7527	Apply fabrication, assembly, and finishing methods in materials technology	I	4
7525	Select materials and establish processes for a manufacturing task	I	4
2.2	Develop and implement a one-off solution in materials technology (Internal assessment)	I	6
2.7	Demonstrate skills that support the use and manipulation of materials within technological practice (Internal assessment)	I	6
7526	Use, and care for, portable machine tools in materials technology (optional)	I	4
7528	Work to design tolerances using marking out and measuring tools	I	4

Total Internal Credits = Students may take up to the maximum of 28 credits.

**Where does it lead?** To Year 13 Technology based courses. Engineering industry and Technology/Design courses at Polytechnics or University.

**TECHNOLOGY WOOD – 12TEW**

**Course Length:** One year

**Cost:** \$85.00 initially dependent on materials used

**Entry Requirements:** New entrants to get approval from HOD

**Course Outline:** This course is based around students making practical solutions to needs and opportunities. It involves students researching into relevant issues and existing designs, then designing/making items for those issues. The main material will be wood, but other materials may be used to enhance the final outcomes. There is NO end of year examinations as assessments are taken from the work during the year.

**Type of Assessment Standards:**

A mixture of NZQA achievement standards, unit standards may be incorporated into the course. Changes may occur to enhance student learning.

**Examples of Possible Standards:**

No.	Description	External/ Internal	Credits
7527	Apply fabrication, assembly, and finishing methods in materials technology	I	4
7525	Select materials and establish processes for a manufacturing task	I	4
2.2	Develop and implement a one-off solution in materials technology (Internal assessment)	I	6
2.7	Demonstrate skills that support the use and manipulation of materials within technological practice (Internal assessment)	I	6
7526	Use, and care for, portable machine tools in materials technology (optional).	I	4
7528	Work to design tolerances using marking out and measuring tools	I	4

Total Internal Credits = Students may take up to the maximum of 28 credits.

**Where does it lead?** Year 13 Technology based courses. Construction industry and Technology/Design courses at Polytechnics or University.

## TOURISM – 12TOU

**Course Length:** One or two years

**Cost:** \$150

**Entry Requirements:** None

**Course Outline:**

Tourism is now the fastest growing industry in the world, growing at an average annual rate of 4.4%. Over 200 million people (nearly one in ten of the world's workers) now work in the tourism industry, helping to meet the needs of more than 900 million tourists who travel each year. The Asia-Pacific Region, (of which New Zealand is a part), is the fastest growing tourist region in the world today. This course will help you to develop the knowledge and skills that twenty-first century employers in the industry will need from their future employees.

Although it is possible to take the tourism course for just one year, (achieving up to nineteen credits at Level 2), the course has been designed as a two year course, allowing students to achieve the full **National Certificate in Tourism and Travel (Introductory Skills) Level 2** by the end of Year 13.

Students who achieve the full National Certificate are able to demonstrate:

- Skills in written and verbal communication.
- Knowledge of computer applications and an ability to perform simple calculations.
- An understanding of work roles within the industry and their related personal requirements.
- Knowledge of a variety of tourist destinations both within and beyond New Zealand.
- An awareness of the history of tourism and knowledge of its impact on 'host' communities.

**Assessment:**

All assessment in the tourism course takes place through internally assessed *Unit Standards*. All unit standards must be completed in order to achieve the full National Certificate and the pass rate for each standard is 100%. However, students are allowed up to three attempts to complete each standard to the required level. The following units will be offered in 2009:

Unit Standard	Title	Level	Credit
18230	Demonstrate knowledge of computer applications and produce text on a computer for tourism and travel	2	3
18231	Identify work roles in tourism and their related personal requirements	2	3
18232	Read and write in English for the tourism and travel industry	2	3
18233	Communicate with one person in English for the tourism and travel	2	2

**Fieldwork:**

In order to support students' learning within the classroom, two field trips take place in year twelve. The first of these, to Lake Manapouri and the Te Anau Glow Worm Caves, will be compulsory for all students and the cost of this visit is included within the course fee detailed above. The second trip, an overnight trip to Dunedin, will be an optional visit which is likely to cost in the region of \$150. This fee will be in addition to the course fee detailed above.

**Where does it lead?**

Completion of the full National Certificate will give students a real advantage when it comes to applying for jobs in aviation, in tourism and travel, or in museums. The full Certificate also prepares students for the National Certificate in Tourism and Travel (Core Skills) (Level 3) which can lead to further qualifications in Travel or in Tourism (Guiding). This qualification can be obtained through a Modern Apprenticeship or through a specialised Industry Training College.

**VISUAL ARTS – 12ART**

**Course Length:** One year

**Cost:** Approximately \$30.00 plus Art pack.

**Entry Requirements:** Completion of Year 11 Art or special dispensation from the Head of Department. Prior knowledge of art practises is essential. A minimum of achieved in 1.3 external modules.

**Course Outline:** Students may take up to the maximum of 24 credits. Students are required to thoroughly research and document methods and ideas relating to Art and artworks using a variety and diversity of both European and Maori artists. Students generate and develop ideas further using drawing methods related to established practice, experimenting with drawing materials, processes and techniques appropriate to painting. Students approach the external unit systematically to create and develop ideas and artwork. The external element comprises of two art boards being completed.

**Assessment:**

No.	Description	External / Internal	Credits
2.1 (90233)	Research and document methods and ideas	I	6
2.2 (90476)	Generate and develop ideas	I	6
2.3 (90479)	Produce a body of work to show understanding of art making methods and ideas	E	12

External Credits = 12

Internal Credits = 12

Total Credits = 24

**Where does it lead?** To Level 3 NCEA Art or to a Polytechnic course.

**WORK & STUDY SKILLS (WSS)**

The aim of this course is to prepare you with the skills and knowledge to enable you to enter the workforce or a training course (e.g. Polytechnic/Institute of Technology). In conjunction with the course Unit Standards will be offered to give you the opportunity to gain credits towards NCEA Level 2. The following Unit Standards will be compulsory, along with others that will be decided on next year.

Unit Standard	Title	Level	Credit
10781	Produce a Plan for Future Directions	2	3
4252	Produce a Targeted Curriculum Vitae	2	2
1294	Formal Interview	2	2
12354	Implications of Independent Living	2	4
9677	Participate in Groups and teams to gather Information	2	2

**First Aid in the Workplace** will also be compulsory, and facilitated by an outside provider. This encompasses three Unit Standards **6400 Manage First Aid, 6401 Provide Basic First Aid and 6402 Provide Basic Life Support**. At this stage a total of 17 credits are available.

## **YOUTH AWARD SCHEME (YAS)**

<b>Year level:</b>	10, 11, 12, and 13
<b>Hours per week:</b>	Full year. Course would be completed over 3 years.
<b>Qualifications to be gained:</b>	Achievement Certificates for work completed as we go. Level 1 Certificate in Learning Support. Level 2 Certificate in Mainstream Studies.

**Open entry.**

### **COURSE CONTENT**

The course is provided by South Pacific Educational Courses Ltd. The course is approved by the New Zealand Qualifications Authority under the provisions of the Education Act 1989.

This course offers students supported learning in a variety of life skills, practical activities and challenges.

The course provides a framework for students who need support and guidance with their school work.

Students are offered a flexible student centred, activity-based, individualised programme.

Students, who complete the requirements in TRUMP, Headway, and Ready to Work modules, will achieve a NZQA LEVEL 1 Certificate in Learning Support.

Total credits available 40.

This course covers self management, relating to others, thinking, participating and contributing. Students will demonstrate personal growth, self management, self esteem, motivation and a sense of self worth.

Students who complete the requirements of the Shooting Stars, One Star, Two Star, Three Star modules will achieve a NZQA LEVEL 2 Certificate in Mainstream Studies.

Total credits available 72.

This course covers practical life skills, and practical task applications in the workplace. Students who complete the course will be able to think independently, relate to others, and use language to express themselves, manage self, participate and contribute.

### **Assessment and certification:**

Completed portfolios will be verified externally with successful students being awarded Level Certificates.

<b>Course Costs:</b>	All new students to course
	Student Booklet/Activities for the year - \$40.00
	Additional modules vary from \$8.00 to \$22.00