



Otago Boys' High School

**SENIOR
CURRICULUM
CHOICES
2012**

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Welcome to the Senior School. The aim of this booklet is to assist you with your course planning for next year and beyond. The handbook contains information on all subjects currently offered in the senior school. Be assured that every effort will be made to provide a course of study that will meet your needs and assist you to achieve your academic goals. Consultation and advice on course planning is available from the staff listed below. For advice on individual subjects please talk to your teachers and the staff member listed in the information for each subject. Read this booklet carefully, and keep it for later reference.

- Check your career requirements;
- Know the prerequisites (what must be studied beforehand);
- Plan ahead (what your course leads to);
- Consult with the adults you live with, and with the teachers in charge of subjects.

ABBREVIATIONS used throughout this booklet include:

N.C.E.A.	National Certificate of Educational Achievement
A.S.	Achievement Standards
U.S.	Unit Standards
I.T.O.	Industry Training Organisation

**STAFF: 2011**

Year 13 Deans	Ms Casey & Mr Townsend
Year 12 Deans	Mr Ashdown & Ms Calverley
Year 11 Deans	Mr South & Ms Irving
Guidance Counsellor	Mr Naziris
Careers Advisor	Mr Swan
STAR Coordinator	Mr Swan
Gateway Coordinator	Ms Irving

GENERAL INFORMATION

1. Classes will be organised and timetabled to operate only if there are sufficient numbers of students interested and if staffing and resources are available. There may be composite classes. Video conference and Correspondence School courses may have to be applied for. This school's policy is to have students taught here by teachers.
2. Some students' courses will involve subjects being taken at two levels (multi-level). Once you have reached Year 12 or Year 13 you may select or be directed to subjects at a lower level, if you need to improve last year's results or if you have failed to attain certain prerequisites.
3. Most students are expected to enter the NCEA Level for their year group assuming they have met the prerequisites in the subjects they wish to study.

SUBJECTS AVAILABLE IN 2012 (those with an * are possibly on offer)**NCEA LEVEL 1 (YEAR 11)**

Accounting	Art	Agriculture
Catering	Computing	Economics
English	French	Geography
German	Graphics	History
Japanese	Mathematics	Media Studies *
Mechanical Engineering	Metal Product Technology	Music
Physical Education	Science	Te Reo Māori
Wood Technology		

NCEA LEVEL 2 (YEAR 12)

Accounting	Agriculture	Art
Biology	Catering	Chemistry
Computer Studies	Economics	English
French	Gateway	Geography
German	Graphics	History
Japanese	Legal Studies	Mathematics
Mathematics Applied	Media Studies	Music
Metal Product Technology	Outdoor Education *	Physical Education
Physics	Sport Studies *	Science *
Te Reo Māori	Wood Technology	

NCEA LEVEL 3 (YEAR 13)

Accounting	Agriculture (Correspondence)	Art
Biology	Calculus	Catering
Chemistry	Classical Studies	Computer Studies
Economics	English	French
Gateway	Geography	German
Graphics	History	Japanese
Media Studies	Metal Product Technology	Music
Outdoor Education *	Physical Education	Physics
Sport Studies *	Statistics and Modelling	Te Reo Māori
Wood Technology		

INFORMATION FOR NEXT YEAR'S YEAR 11 STUDENTS

All students study SIX subjects including English and Mathematics all of which lead to NCEA Level 1 credits. Most subjects will have a mixture of internally and externally assessed Achievement Standards. Each NCEA Achievement Standard can be gained with a credit, merit or excellence pass.

Some students will be guided into alternative courses in Mathematics, English and Science which offer a mixture of Achievement Standards and Unit Standards.

NCEA Level 1 literacy and numeracy requirement

The new literacy and numeracy requirement for NCEA level 1 is 10 credits of literacy and 10 credits of numeracy

There will be 2 ways of meeting the literacy and numeracy requirement. One way will be through the newly developed literacy and numeracy unit standards, the other way will be through specified achievement standards.

Unit standards

This option is a package of 3 standards (10 credits) for literacy and a package of 3 standards (10 credits) for numeracy. These standards focus on establishing a literacy and numeracy standard for all learners be they school students, people in the workforce or people in other forms of training.

Achievement standards

This option will allow students to meet their literacy and numeracy requirement through achievement standards, without the need for additional assessment tasks. Most Year 11 students will meet their literacy and numeracy requirements through achievement standards.

Mixing unit and achievement standards options

Students will be able to achieve the literacy requirement through unit standards **or** achievement standards but will **not** be able to use some unit standard credits and some achievement standard credits to make the required 10 credits.

Similarly for the numeracy requirement, students will be able to achieve the requirement through unit standards or achievement standards but will **not** be able to use a combination of unit standard credits and achievement standard credits to make the required 10 credits.

However students **will** be able to achieve the literacy and numeracy requirement by using the unit standard package to gain the numeracy and the achievement standards package to gain the literacy or vice versa.

INFORMATION FOR NEXT YEAR'S YEAR 12 STUDENTS

Students study **SIX** subjects including an English course. Most Level 2 (Year 12) subjects have prerequisites based on your achievement in NCEA Level 1. Students may be directed into a multi-level course combining Level 1 and Level 2 subjects or into alternative courses if they have not achieved the requirements needed to continue a subject at Level 2.

Year 12 Level 2 subjects involve a significant academic "step up" compared with Level 1 and are the foundation for your success in Year 13 and beyond. Ensure that the Year 12 subjects you choose keep your options open for Year 13 and give you the foundation and necessary prerequisites for continued study.

INFORMATION FOR NEXT YEAR'S YEAR 13 STUDENTS

The benefits of a Year 13 year to both students and this school are obvious and rewarding, especially in the development of leadership, initiative, and academic knowledge. All students are expected to study at least FIVE subjects.

All Level 3 subjects have prerequisites based on your achievement in NCEA Level 2. Students may be directed into a multi-level course combining Level 2 and Level 3 subjects.

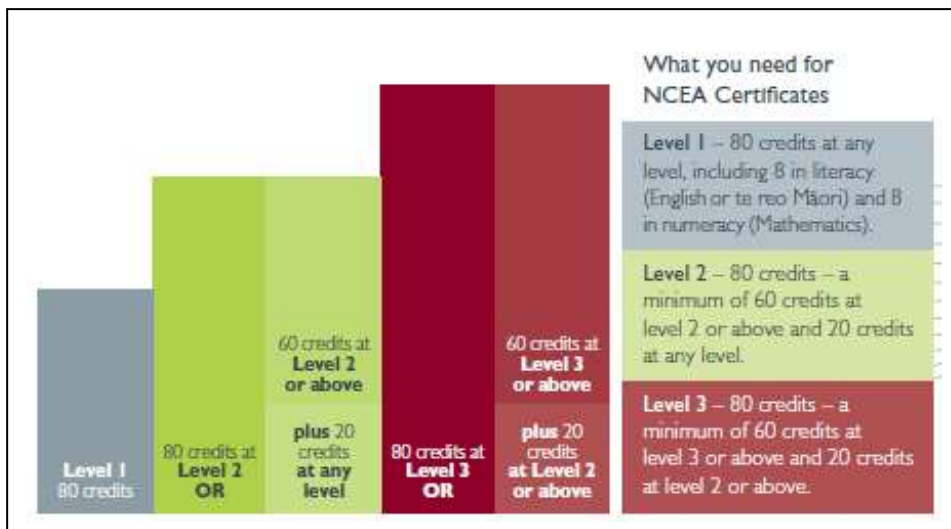
Level 3 subjects are quite academic and prepare students for university study. Level 2 achievement at the merit and excellence level is highly desirable and a good foundation for success at this level. Many university courses demand high levels of achievement to ensure placement in certain faculties.

To qualify for entrance to university you require :

University Entrance (UE) is the minimum requirement to go to a New Zealand university. To qualify you will need:

- Approved subjects - 42 credits at **Level 3 or higher**, made up of:
 - 14 credits in 1 [approved subject](#)
 - 14 credits in another [approved subject](#)
 - 14 credits from 1 or 2 additional domains or approved subjects
- Literacy requirements - 8 credits in [English or te reo Maori](#) at **Level 2 or higher**, made up of:
 - 4 credits in reading
 - 4 credits in writing
- Numeracy requirements - 14 credits in Numeracy at **Level 1 or higher**, made up of:
 - 14 credits in Mathematics or Statistics and Probability

In addition to this, individual Universities now also have entrance requirements. You need to check these online with each University



Recognising high achievement

You can gain an NCEA with Merit or Excellence. If you gain enough credits for your NCEA and 50 or more of them are at Excellence, you will earn an NCEA with Excellence. If you get 50 or more credits at Merit (or a mix of Merit and Excellence), you will earn an NCEA with Merit.

Course endorsements 2012.

A course endorsement provides recognition for a student who has performed exceptionally well in an individual course. The key objective of a course endorsement is to motivate students to achieve their potential in one or more courses.

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

- 14 or more credits at Merit or Excellence at the lower level that supports the endorsement
- at least 3 of these credits from externally assessed standards and 3 credits from internally assessed standards. Note this does not apply to Physical Education and level 3 Visual Arts.

OUTLINE OF COURSE

Accounting is the language of business. NCEA Level 1 Accounting introduces Accounting as a financial language for individuals, community organisations and businesses. The course aims to develop students' understanding of the role of accounting in society as a financial language for individuals, community organisations and businesses. It aims to provide students with knowledge of the principles, processes and systems of Accounting and to enable them to apply that financial knowledge and skills to practical situations. Information, numeracy, communication and problem solving skills are developed in Accounting. Students are introduced to the foundations of Accounting, processing transactions and reporting and analysing results.

ASSESSMENT

This is a full year course worth a total of 24 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
1.1	3	Demonstrate understanding of accounting concepts for small entities	External
1.2	5	Process financial transactions for a small entity	Internal
1.3	5	Prepare financial statements for sole proprietors	External
1.4	4	Prepare financial information for a community organisation's AGM	Internal
1.5	4	Interpret accounting information for sole proprietors	External
1.6	3	Make a financial decision for an individual or group	Internal

WHERE DOES IT LEAD?

To the study of Level 2 Accounting. Anyone considering a career in business should "give Accounting a go". Accounting is the language of business, spoken all over the world.

FOR FURTHER INFORMATION SEE Mr Ashwin

PREREQUISITES A minimum of 12 NCEA Accounting Level 1 credits including 5 credits in Achievement Standard 1.2. Year 12 students wishing to study Accounting for the first time should seek advice from Mr Ashwin.

OUTLINE OF COURSE

Students are introduced to the foundations of Accounting and the principles on which it is based. Major parts of the course include processing transactions using a software package, presenting, reporting and analysing financial information, a study of accounting systems and decision making.

ASSESSMENT

This is a full year course worth 23 credits. There are three internally assessed achievement standards worth a total of 10 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
2.1	4	Demonstrate understanding of accounting concepts for a sole proprietor.	External
2.2	4	Demonstrate understanding of accounting processing using accounting software.	Internal
2.3	5	Prepare financial information for an entity that operates accounting subsystems.	External
2.4	4	Interpret accounting information for sole proprietors that operate accounting subsystems	External
2.6	3	Demonstrate understanding of an accounts receivable subsystem for an entity.	Internal
2.7	3	Demonstrate understanding of an inventory subsystem for an entity	Internal

WHERE DOES IT LEAD?

Accounting is the language of business and commerce spoken world-wide. That is why it remains a popular career choice and important skill useful in any business career.

FOR FURTHER INFORMATION SEE Mr Ashwin

PREREQUISITES A minimum of 12 credits in Level 2 Accounting or 18 credits in Level 1 Accounting if you did not study Level 2 Accounting. Some of these credits should be at the merit or excellence level. Level 3 Accounting assumes competent prior study.

OUTLINE OF COURSE

The context of Accounting shifts to partnerships and companies. Reporting, analysing and interpreting performance, financial position and cash flows are a major part of the course. Cost and management accounting are introduced, as are budgeting techniques.

ASSESSMENT

This is a full year course worth 24 credits. There is one internally assessed achievement standard worth 5 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90500	4	Describe and apply the conceptual basis of accounting in context	External
90501	3	Process financial information for partnerships and companies	External
90502	3	Process financial information for a manufacturing job cost subsystem	External
90503	6	Prepare financial statements for partnerships and companies	External
90504	5	Prepare a report that analyses and interprets a company's financial report for external users	Internal
90505	3	Explain and prepare information for management decision making	External

WHERE DOES IT LEAD?

Tertiary qualifications in Accountancy, Commerce, Business Studies, Computing and Law. New Zealand accountancy qualifications and skills are highly marketable in New Zealand and internationally.

Accounting opens up a wide range of career options. You could join a Chartered Accountancy firm, a government department, a charitable or sporting organisation, private industry or set up your own business.

FOR FURTHER INFORMATION SEE Mr Ashwin

Agriculture offers the boys an introduction to the Agriculture industry including a mixture of both NCEA Achievement Standard and Unit Standard based credits covering theoretical and practical based skills.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90918	4	Carry out a practical agricultural or horticultural investigation	Internal
90157	4	Demonstrate practical skills used in agricultural or horticultural production	Internal
90919	4	Demonstrate knowledge of soil management practices	External
90920	3	Demonstrate knowledge of the geographic distribution of agricultural and horticultural primary production in New Zealand	Internal
90921	5	Demonstrate knowledge of livestock management practices	External

Unit Standards

Fencing Course with Agribusiness

This is practical and theory course where the boys get unit standards:

24836 (2 credits at Level 2),

24837 (3 credits at Level 3),

24832 (5 credits at Level 2),

24833 (3 credits at Level 2) - Total Credits = 13

AGRICULTURE**LEVEL 2**

PREREQUISITES: *the boys must be 16 years or older on or before the start date of the course 1st May 2012*

Agriculture offers the boys a course where they can build on their Agriculture knowledge from Level 1. Year 12 has a mixture of both NCEA Achievement Standard and Unit Standard based credits covering theoretical and practical based skills.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
	4	Carry out an extended practical agricultural or horticultural investigation	Internal
	4	Demonstrate understanding of livestock reproductive technologies	Internal
	4	Demonstrate understanding of interactions between livestock behaviour and management practices.	Internal
	3	Report on the environmental impact of the production of a locally produced primary product	Internal
	5	Demonstrate understanding of land use for primary production in New Zealand.	External

Unit Standards

National Certificate in Agriculture (Introductory Skills) with Telford Polytechnic
Level 2 – 42 credits

The course is made up of theory and practical unit standards. Students are required to complete all theory and practical unit standards as well as attend the training day and the practical skills assessment days that will be held in the first week of the third term break. Students should also be available for follow up visits during the year.

There will be a cost of \$85 for Level 2 Agriculture

ART**LEVEL 1 (YEAR 11)**

PREREQUISITES Preferably Year 10 Art

OUTLINE OF COURSE

The course covers drawing processes and procedures and the research of artworks from Māori and European traditions and contexts. There will be the opportunity for students to extend their own ideas and techniques in other media.

ASSESSMENT

The course is worth a total of 18 credits. There is one internal achievement standard worth a total of 6 credits and one external assessment worth 12 credits.

COSTS

\$45 for equipment essential to the practical nature of this course.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90915	6	Use drawing conventions to develop work in more than 1 field of practice.	Internal
90916	12	Produce a body of work informed by established practice, which develops ideas, using a range of media.	External

WHERE DOES IT LEAD?

To Level 2 and Level 3 Art.

FOR FURTHER INFORMATION SEE Mr Tulloch

PREREQUISITES This is clearly a course that is best undertaken following a year of good attainment in Level 1 Art. However, students are sometimes accepted upon the presentation of a personal collection of artwork that reflects enthusiasm and some ability.

OUTLINE OF COURSE

Students are required to research information methods and ideas in the context of a drawing study in art. The student will then extend their study into a portfolio of work.

ASSESSMENT

This is a full year course worth 18 credits. There is one internally assessed achievement standard of 6 credit and 1 external achievement standard of 12 credits

COSTS

The cost of essential equipment is \$30

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90476	6	Generate and develop ideas using drawing processes and procedures in painting practice.	Internal
90479	12	Produce a body of work within painting to show understanding of art making methods and ideas.	External

FOR FURTHER INFORMATION SEE Mr Tulloch

PREREQUISITES The satisfactory completion of Level 2 Art is a necessary prerequisite for this course as the standard of work is high. It would be likely that a student could spend \$50 or more for this year's art studies. History of Art is a useful complement.

OUTLINE OF COURSE

Students will be expected to research, discuss, investigate and produce original work within painting to show extensive knowledge of art-making methods and ideas.

ASSESSMENT

This is a full year course worth 20 credits. There is one internally assessed achievement standard worth 6 credits and one external assessment worth 14 credits.

WHERE DOES IT LEAD?

Universities, notably Canterbury and Auckland, Polytechnics (Dunedin for fine arts) and a number of private art study institutions can be chosen for the student wishing to take his studies further.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90663	6	Investigate and use ideas and methods in the context of a drawing study in painting	Internal
90667	14	Produce original work within painting to show extensive knowledge of art-making methods and ideas	External

FOR FURTHER INFORMATION SEE Mr Tulloch

BIOLOGY (Applied Biology)**LEVEL 2 (YEAR 12)****PREREQUISITES** A minimum of 14 Level 1 Science credits.**OUTLINE OF COURSE**

A Level 2 course in biology suitable for those students contemplating Scholarship Biology the following year or wanting a course with a strong genetic/health science focus.

ASSESSMENT

This is a full year course worth a minimum of 19 credits. There are two internally assessed standards worth a total of 7 credits and three externally assessed standards.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
2.1	4	Carry out a practical investigation in a biology context with supervision.	Internal
2.3	3	Demonstrate understanding of adaptation of plants or animals to their way of life.	Internal
2.4	4	Demonstrate understanding of life processes at the cellular level.	External
2.5	4	Demonstrate understanding of genetic variation and change.	External
2.7	4	Demonstrate understanding of gene expression.	External

WHERE DOES IT LEAD?

Completion of this course is a requirement for the Level 3 Biology course and for many tertiary courses in health sciences, zoology, biochemistry, genetics, anthropology, agriculture, veterinary science, nutrition etc

FOR FURTHER INFORMATION SEE Mr Curtis**BIOLOGY (General Biology)****LEVEL 2 (YEAR 12)****PREREQUISITES** A minimum of 14 Level 1 Science credits.**OUTLINE OF COURSE**

A broad course in Level 2 Biology that has a higher internal assessment component than Level 2 Applied Biology.

ASSESSMENT

This is a full year course worth a minimum of 22 credits. There are four internally assessed standards worth a total of 14 credits and two externally assessed standards.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
2.1	4	Carry out a practical investigation in a biology context, with supervision	Internal
2.3	3	Demonstrate understanding of adaptation of plants or animals to their way of life.	Internal
2.4	4	Demonstrate understanding of life processes at the cellular level.	External
2.5	4	Demonstrate understanding of genetic variation and change.	External
2.6	4	Investigate a pattern in an ecological community.	Internal
2.8	3	Investigate biological material at the microscopic level	Internal

WHERE DOES IT LEAD?

Completion of this course is a requirement for the Level 3 Biology course and for many tertiary courses in health sciences, zoology, biochemistry, genetics, anthropology, agriculture, veterinary science and nutrition

FOR FURTHER INFORMATION SEE Mr Curtis

PREREQUISITES A minimum of 14 Level 2 Biology credits including credits in AS 90457 (2.1) and AS 90459 (2.3).

OUTLINE OF COURSE

Investigating an aspect of an organism's ecological niche. Plant responses and animal behaviour in relation to environmental factors. Biotechnological processes and techniques which includes a one day course at Otago University. Genetics, gene expression, inheritance. speciation and human evolution.

ASSESSMENT

This is a full year course worth a minimum of 21 credits. There are two internally assessed standards worth a total of 7 credits and four externally assessed standards.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90713	4	Carry out a practical investigation into an aspect of an organisms ecological niche with guidance.	Internal
90715	4	Describe the role of DNA in relation to gene expression.	External
90716	4	Describe animal behaviour and plant responses in relation to environmental factors.	External
90717	3	Describe processes and patterns of evolution.	External
90718	3	Describe applications of biotechnological techniques.	Internal
90719	3	Describe trends in human evolution.	External

WHERE DOES IT LEAD?

Completion of this course is a requirement for many tertiary courses in health sciences, zoology, biochemistry, genetics, anthropology, agriculture, veterinary science, nutrition etc

FOR FURTHER INFORMATION SEE Mr Curtis

PREREQUISITES A minimum of 16 NCEA Level 2 credits in Mathematics including credits in AS90284 (2.1) Algebra, AS 90285 (2.2) Graphing and AS 90286 (2.3) Calculus.

OUTLINE OF COURSE

Our year 13 NCEA Level 3 Calculus classes undertake learning throughout the year that will prepare students for NCEA. In 2012 students will have the opportunity to gain 24 Level 3 achievement standard credits towards NCEA. The assessment for these is a combination of internal and external assessment tasks. In addition, students will also have the opportunity to gain up to 18 Level 3 Unit Standard credits, the assessment for these being internal assessment tasks. Success in some unit standards will not count if credit is gained in an equivalent Achievement Standard assessment.

ASSESSMENT

This is a full year course of 5 Achievement standards worth 24 credits. There is one internally assessed achievement standard worth 4 credits. The remainder are externally assessed. There are also five Unit Standard assessments available worth 18 credits

WHERE DOES IT LEAD?

Higher Mathematical courses at University or Polytechnic may use this course as a prerequisite. Calculus is a course appropriate for students who intend to go on to University or Polytechnic and study fields where mathematical skills and procedures are important tools, in particular the physical sciences, engineering, electronics, computer sciences and economics. (Many students in these fields may need both Calculus and Statistics and Modelling).

Number	Credits	Title	Internal/external
90635	6	Differentiation – Differentiate functions and use derivatives to solve problems.	External
US5265	6	Differentiate functions and use calculus to solve problems.	Internal
US20660	2	Use integral calculus to solve differential equation problems.	Internal
US20905	5	Use calculus to solve integration problems.	Internal
US20661	2	Sketch, describe and find equations of graphs.	Internal
US5267	3	Use complex numbers to solve problems.	Internal
90636	6	Integration – Integrate functions and use integrals to solve problems.	External
90637	4	Trigonometry – Solve problems and equations involving trigonometric functions.	Internal
90638	5	Complex Numbers – Manipulate real and complex numbers, and solve equations.	External
90639	3	Conics – Sketch graphs of conic sections and write equations related to conic sections.	External

FOR FURTHER INFORMATION SEE Mr Doran

CATERING

LEVEL 1 (YEAR 11)

Year 10 leads into Year 11 Catering programme. Students undertake Level 1 cookery foundation studies for a career possibly as a chef. The course consists of food safety, knife handling, grilling, boiling, baking, salads, stocks, sauces, and egg and cheese dishes. When you have completed this year's work you will have a basic understanding of aspects of the hospitality industry which will enable you to progress on to Level 2 or Polytechnic and enter the hospitality industry.

PREREQUISITES Level 2 Unit Standard 167, the cost is \$160.00 and this must be paid in the first three weeks of term 1.

OUTLINE OF COURSE

This is a practical course based on units offered by the Hospitality Standards Institute. There is a strong emphasis on developing planning and technical skills.

ASSESSMENT

This is a full year course which offers Unit Standards at Level 1 with both practical and theory components.

Number	Credits	Title	Internal/external
15620	6	Hygiene and safety in preparation, serve & store food	Internal
15900	3	Present meat in the food industry	Internal
15901	2	Prepare and present fruit and vegetables	Internal
19770	2	Prepare and present egg and cheese dishes	Internal
15895	2	Boiling and baking	Internal
15920	3	Prepare and present stock, sauce and soup	Internal
15921	3	Prepare and cook a cake, a sponge and scones.	Internal
19771	3	Prepare and present seafood	Internal

WHERE DOES IT LEAD?

This course leads into food and hospitality courses at the tertiary level, including Chef Qualifications and Hotel Management.

FOR FURTHER INFORMATION SEE Mr Perkins or Ms Irving

CATERING

LEVEL 2 (YEAR 12)

PREREQUISITES: The cost is \$160.00 must be paid in the first three weeks of term 1

OUTLINE OF COURSE

This is a practical course based on units offered by the Hospitality Standards Institute. There is a strong emphasis on developing planning and technical skills.

ASSESSMENT

This is a full year course which offers Unit Standards at Level 2 with both the practical and theory components assessed.

Number	Credits	Title	Internal/external
167	4	Practice food safety methods in a food business	Internal
13281	2	Prepare and present sandwiches in a commercial kitchen	Internal
13280	2	Prepare fruit and vegetables in a commercial kitchen	Internal
13278	2	Cook food by roasting in a commercial kitchen	Internal
13271	2	Cook food by frying in a commercial kitchen	Internal
13285	2	Handle and maintain knives in a commercial kitchen	Internal
13276	2	Prepare and cook food by grilling in a commercial kitchen	Internal
13283	2	Prepare and present salad for service in a commercial kitchen	Internal

WHERE DOES IT LEAD?

This course leads into food and hospitality courses at the tertiary level, including Chef Qualifications and Hotel Management.

FOR FURTHER INFORMATION SEE *Mr Perkins or Ms Irving*

CATERING

LEVEL 3 (YEAR 13)

PREREQUISITES Level 2 Units Standard 167. The cost is \$160.00 and this must be paid in the first 3 weeks of Term 1.

OUTLINE OF COURSE

This is a practical course based on units offered by Skills 4 Work training organisation. The year 13 Food Technology class has a strong emphasis on practical trade skills relevant to real life situations and future job opportunities.

This is a full year course which offers Unit Standards at Level 3 with both the practical and theory components assessed.

WHERE DOES IT LEAD?

This course leads into food and hospitality courses at the tertiary level, including chef, baking, butchery qualifications and hotel management.

ASSESSMENT: a choice of the following unit standards is available in 2012

Number	Credits	Title	Internal/external
15148	4	Prepare mix deposit and bake choux paste products	Internal L3
23078	4	Demonstrate knowledge of baking equipment and utilities used in the baking industry	Internal L3
14726	10	Form and cut biscuit dough's use production methods	Internal L3
14703	8	Mix and develop white dough's using manual production methods	Internal L2
14705	10	Mix and develop grain and meal bread dough's using manual production methods	Internal L3
14725	10	Prepare and mix biscuits dough's using manual production methods	Internal L3
14726	10	Form and cut biscuit dough's using manual production methods	Internal L3
26267	4	Select and mince sheep meat	Internal L3
26272	4	Select and mince beef meat	Internal L3
26277	6	Select and mince pork meat	Internal L3
26281	4	Select and mince chicken meat	Internal L3

PREREQUISITES It is recommended that you have passed AS 90944 in Year 11.

OUTLINE OF COURSE

A captivating and challenging course that focuses on investigating and understanding materials and chemical processes that are common to everyday life.

Topics Covered

- Quantitative and Qualitative Chemistry
- Volumetric Analysis
- Atomic Structure and Bonding
- New innovations in Chemistry
- Chemical reactivity
- Oxidation -Reduction

ASSESSMENT

Level 2 Chemistry is a full year course worth 22 credits. There are four internal achievement standards worth a total of 13 credits. The two external achievement standards are worth a total of 9 credits.

Number	Credits	Title	Internal/external
2.2	3	Carry out a qualitative analysis.	Internal
2.1	4	Carry out quantitative analysis	Internal
2.3	3	Demonstrate understanding of the chemistry of a recent discovery or development.	Internal
2.7	3	Describe oxidation-reduction reactions	Internal
2.6	4	Demonstrate understanding of chemical reactivity	External
2.4	5	Demonstrate understanding of bonding and structure	External

WHERE DOES IT LEAD?

Chemistry may be studied as a NCEA Level 3 subject. It is a prerequisite for employment or training in a wide range of fields (e.g. medicine, physical education) and is strongly recommended in other areas e.g. nursing, agricultural diplomas. It is a service subject and is needed for many tertiary courses. Many medical/sports related subjects require a 1st year tertiary chemistry paper.

FOR FURTHER INFORMATION SEE *Mr Ashdown or Mr Holt*

PREREQUISITES A minimum of 12 credits in Level 2 Chemistry (including 2 external Achievement Standards)

OUTLINE OF COURSE

- Atomic Structure, Bonding and Energy Changes
- Aqueous Solution Chemistry
- Organic Substances
- Oxidation and Reduction
- Practical Investigation

This course strongly follows and builds upon concepts developed and applied at Level 2. An emphasis is placed on relating content to everyday situations. Theoretical concepts are further developed as a bridge to tertiary study.

ASSESSMENT

This is a full year course worth 24 credits. Two internally assessed achievement standards worth a total of 6 credits and four externally assessed achievement standards. One of the internally assessed standards is A.S. 3.1 which is an extended practical exercise worth 4 credits. This is carried out over two full days at Otago University.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90694	4	Carry out an extended practical investigation involving quantitative analysis.	Internal
90695	2	Determine the concentration of an oxidant or reductant by titration.	Internal
90698	5	Describe aspects of organic chemistry.	External
90700	5	Describe properties of aqueous systems.	External
90780	5	Describe properties of particles and thermochemical principles.	External
90696	3	Describe oxidation-reduction processes.	External

WHERE DOES IT LEAD?

To first year University courses leading to science degrees. A component of first year courses for medicine, engineering, veterinary, forestry. Also as an avenue to advanced polytechnic studies desirable for nursing and agricultural based courses. Chemistry is a service subject for many tertiary courses.

FOR FURTHER INFORMATION SEE *Mr Ashdown or Mr Holt*

CLASSICAL STUDIES

LEVEL 3 (YEAR 13)

PREREQUISITES A minimum of 12 credits in NCEA Level 2 English, preferably including the writing standards AS 90375 (2.1) or AS 90376 (2.2)

OUTLINE OF COURSE

The course studies aspects of the life and culture of Classical Greece and Rome. There are ten topics in four disciplines: History, Literature, Philosophy and Art History. Students must study a minimum of four topics and cover at least three disciplines.

ASSESSMENT

The course is worth a total of 24 credits. Six credits are assessed internally

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90511	6	Explain a passage or passages from a work of classical literature in translation	External
90512	6	Explain a work or works of classical art	External
90513	6	Explain in essay format an aspect of the classical world	External
90514	6	Complete independent research on an area of the classical world	Internal

WHERE DOES IT LEAD?

The course can lead to further study of Classics at First Year University level. It is a useful background for careers in journalism, library work, law, museum work, travel and tourism.

FOR FURTHER INFORMATION SEE *Ms Gorman*

COMPUTING – Digital Technology

LEVEL 1 (YEAR 11)

PREREQUISITES None

OUTLINE OF COURSE

Provides an entry level into computing, using the new digital technology achievement standards which provides an opportunity to learn a variety of practical computing skills including the use of spreadsheet, database, mailmerge, DTP, graphic design, flowcharting and computer programming.

ASSESSMENT

Candidates will be assessed internally with achievement standards from the new digital technology matrix Level 1. A possible 18 credits are available.

Number	Credits	Title	Internal/external
Tech1.41	4	Implement basic procedures to produce a specified digital information outcome.	Internal
Tech1.43	4	Implement basic procedures to produce a specified digital media outcome.	Internal
Tech1.45	3	Construct a basic algorithm structure for a basic task.	Internal
Tech1.46	3	Construct a basic computer program for a specified task.	Internal
Tech1.1	4	Undertake brief development to address a need or opportunity	Internal

WHERE DOES IT LEAD?

Provides an opportunity to develop and extend computing and IT skills. Completion of this course leads into the Year 12 and Year 13 Computer Studies courses which provide an excellent stepping stone into Tertiary IT courses, especially in the area of computer programming.

FURTHER INFORMATION SEE *Mr South*

COMPUTER STUDIES- DIGITAL TECHNOLOGY	LEVEL 2 (YEAR 12 or 13)
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PREREQUISITES

It would be expected that boys would have at least 12 credits in NCEA Level 1, Digital Technology, including credits in at least two of the new Level 1 achievement standards 1.41, 1.43, 1.45, 1.46

ASSESSMENT

This course is assessed internally using a combination of the new Digital Technology Achievement standards and Unit Standards and covers a range of practical computing topics in advance of Level 1 including DTP and design, spreadsheet, database, algorithms, computer programming, and website production. A total of 25 credits are available.

Number	Credits	Title	Internal/external
US 2784	3	Create and use a computer spreadsheet to solve a problem	Internal
US 5940	3	Produce a presentation of a topic using powerpoint	Internal
US 25655	3	Create a website using frontpage to meet a set brief	Internal
AS 2.41	6	Produce a digital information outcome using advanced procedures	Internal
AS 2.43	4	Produce a digital media outcome using advanced procedures	Internal
AS 2.45	3	Construct a modular algorithmic structure for an advanced task	Internal
AS 2.46	3	Construct an advanced computer program for a specified task	Internal
Total	25		

WHERE DOES IT LEAD?

Provides students with practical computing skills and essential background knowledge needed in employment or for further Polytechnic or University study. For those that wish a more in depth study of computers and their use, Year 13 Computer Studies is available in the following year where further unit standards are available at Level 3. This course does not lead to a specific vocation in computing but gives a broad general knowledge and develops confidence and practical computing skills in a wide range of areas.

FOR FURTHER INFORMATION SEE *Mr South*

COMPUTER STUDIES	LEVEL 3 (YEAR 13)
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PREREQUISITES Students must have gained at least 12 credits in Level 2 Computer Studies

OUTLINE OF COURSE

It builds on Level 2 Computer Studies and looks at many of the elements of that course but in more detail and to a greater depth. It gives students further hands-on experience with several software packages and teaches their use as tools for problem solving. It prepares students to take their place in a tertiary course or move comfortably into a world of commerce and industry where this technology is common-place.

Practical aspects include advanced desktop publishing, spread sheeting and template development, use of databases in a business situation, and designing a web site.

ASSESSMENT

This course is assessed internally using Level 3 Unit Standards for a total of 22 credits. There is the opportunity to achieve a National Certificate in Computing at Level 3.

Number	Credits	Title	Internal/external
2789	6	Produce DTP documents for organisational use	Internal
2785	5	Create a computer spreadsheet to provide a solution for an organisation	Internal
2787	6	Create & use a computer database to provide a solution for an organisation	Internal
25658	5	Create a website for a stakeholder using a dedicated web authoring tool	Internal

Provides more in depth knowledge and computing skills needed for employment, or further computing courses at Polytechnic or University. Many of the skills are necessary in most subjects but particularly in Accounting, Economics, Science, Engineering and Statistics.

FURTHER INFORMATION SEE *Mr South*

ECONOMICS

LEVEL 1 (YEAR 11)

PREREQUISITES None.

OUTLINE OF COURSE

The course provides a framework of micro-economic theory and provides a good grounding for future study in the subject. Topics are taught using local examples and two assessments are based on Cadbury Confectionery in Dunedin. The course comprises three major areas of study.

Consumer Choices – students will study the economic behaviour of individuals and households.

Producer Choices – students will study the decisions of individual firms and industries about the use of resources to produce goods and services.

The Market - students will study the interactions between households and firms in the market and the resulting allocation of resources.

ASSESSMENT

This is a full year course and provides the opportunity to gain 24 credits. Candidates will be assessed with a selection from three externally assessed achievement standards worth a total of 12 credits and three internally assessed achievement standards worth a total of 12 credits. All Level 1 standards contribute to NCEA Level 1 literacy requirements.

Number	Credits	Title	Internal/external
1.1	4	Demonstrate understanding of consumer choices, using scarcity and/or demand	External
1.2	5	Demonstrate understanding of decisions a producer makes about production	Internal
1.3	3	Demonstrate understanding of producer choices using supply	External
1.4	5	Demonstrate understanding of how consumer, producer and/or government choices affect society, using market equilibrium	External
1.5	4	Demonstrate understanding of government choice where affected groups have different viewpoints	Internal
1.6	3	Demonstrate understanding of the interdependence of sectors of the New Zealand economy	Internal

COSTS: Students are required to purchase the Year 11 NCEA workbook. This costs approximately \$25.00. There will also be a small cost for an E-learning component in 2012.

WHERE DOES IT LEAD?

Within School: To Level 2 and 3 Economics.

Tertiary: To degrees such as Bachelor of Commerce or Arts and Polytechnic courses such as the National Diploma in Business Studies. Careers such as Valuer, Actuary, Lawyer, Economist, Sociologist, Teacher, Planner, Accountant, Statistician, Personnel Officer, Tertiary Lecturer, Banking, Insurance, Stockbroker, Agricultural Economist etc.

FOR FURTHER INFORMATION SEE *Mrs Calverley or Mr Swan*

PREREQUISITES It is expected that you will have passed Economics 1.4, 1.6 and one more externally assessed standard (1.1 or 1.3) to be prepared to study Level 2 Economics. If you did not study Level 1 Economics then entry is at the discretion of the HOD who will assess your readiness to cope with the Level 2 workload based on your Level 1 NCEA results.

OUTLINE OF COURSE

The course provides a framework of macro-economic theory and provides a good grounding for future study in the subject. The course covers the topics of unemployment, inflation, economic growth and international trade and looks at the role of Government in New Zealand Economy.

ASSESSMENT

This is a full year course and provides the opportunity to gain 20 credits. The focus is on the achievement of these credits at Merit and Excellence to gain preferential entry to university study and subject endorsement.

Number	Credits	Title	Internal/external
2.1	4	Analyse inflation using economic concepts and models	External
2.2	4	Analyse international trade using economic concepts and models	External
2.3	4	Analyse economic growth using economic concepts and models	External
2.4	4	Analyse unemployment using economic concepts and models	Internal
2.5	4	Analyse statistical data relating to contemporary economic issues	Internal

COSTS: Students are required to purchase the year 12 NCEA workbook. This costs \$25.00. There will also be a small cost for an E-learning component in 2012.

WHERE DOES IT LEAD?

Within School: To Level 3 Economics

Tertiary and Careers: Refer to Level 1 Economics.

FOR FURTHER INFORMATION SEE Mrs Calverley or Mr Swan

PREREQUISITES A minimum of 12 external achievement standard credits in Level 2 Economics or 12 credits in Level 2 English and 12 credits in Level 2 Mathematics if you did not study Level 2 Economics.

OUTLINE OF COURSE

The course comprises three parts, the study of which is to enable the student to achieve an understanding of Economics that will allow you to develop a continuing interest in present day economic problems. The three parts are:

Resource Allocation via the Market System

Resource Allocation via the Public Sector

Aggregate Economic Activity and Policy

ASSESSMENT

This is a full year course and provides the opportunity to gain 24 credits. There is one internally assessed achievement standard worth a total of 5 credits.

Number	Credits	Title	Internal/external
90629	5	Understand marginal analysis and behaviour of firms	External
90630	4	Describe the economic problem, allocative efficiency and market response to change	External
90631	4	Describe market failure and government intervention to correct market failure	External
90632	6	Describe aggregate economic activity	External
90778	5	Collect and process information, and carry out an economic analysis	Internal

COSTS: Students are required to purchase the two year 13 NCEA workbooks. This costs \$35.00. There will also be a small cost for an E-learning component in 2012.

WHERE DOES IT LEAD?

Tertiary and Careers: Refer to Level 1 Economics.

FOR FURTHER INFORMATION SEE Mrs Calverley or Mr Swan

ENGLISH	LEVEL 1 (YEAR 11)
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PREREQUISITES None

OUTLINE OF COURSE

This is a full year course. It aims to instruct students in the following main areas: Reading Skills, Personal and Formal Essay Writing, Literature (Drama, Novel, Short Stories, Poetry, Non-Fiction, and Film), Research Skills, Speaking Skills and Media Production Skills. Skills such as interpretation, analysis and processing of information and ideas are also developed.

ASSESSMENT

Level 1 English offers 3 different assessment programmes. Programme one puts greater emphasis on the external examination than Programme two. Both these assessment programmes will allow students to go on to a full Level 2 English course the following year. Programme three emphasises the communication aspects of English. Students will be guided into the appropriate programme based on their Year 10 achievement and advice from their Year 10 English teacher. Entry to any of these programmes is at the discretion of the HOD English.

Programme one

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90849	4	Show understanding of specified aspect(s) of studied written text(s), using supporting evidence	External
90850	4	Show understanding of specified aspect(s) of studied visual or oral text(S), using supporting evidence	External
90851	4	Show understanding of significant aspects of unfamiliar written text(s) through close reading, using supporting evidence	External
90052	3	Produce creative writing	Internal
90053	3	Produce formal writing	Internal
90852	4	Explain significant connection(s) across texts, using supporting evidence	Internal

Programme two

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90849	4	Show understanding of specified aspect(s) of studied written text(s), using supporting evidence	External
90851	4	Show understanding of significant aspects of unfamiliar written text(s) through close reading, using supporting evidence	External
90052	3	Produce creative writing	Internal
90053	3	Produce formal writing	Internal
90855	3	Create a visual text	Internal
90856	3	Show understanding of visual and/or oral text(s) through close viewing and/or listening, using supporting evidence	Internal

Programme three- A selection from:

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90052	3	Produce creative writing	Internal
90053	3	Produce formal writing	Internal
90855	3	Create a visual text	Internal
90854	4	Form personal response to independently read texts, supported by evidence	Internal
90856	3	Show understanding of visual and/or oral text(s) through close viewing and/or listening, using supporting evidence	Internal
10792	3	Write formal personal correspondence	Internal
25060	6	Independently read texts for practical purposes and to gain knowledge	Internal

WHERE DOES IT LEAD

Credits in English are often a pre-requisite for job application or tertiary training. Level 2 English further develops the knowledge and skills taught in Level 1.

FOR FURTHER INFORMATION SEE Ms Gorman

ENGLISH COMMUNICATION

LEVEL 2 (YEAR 12)

PREREQUISITES A minimum of eight credits in NCEA Level 1 English. Entry to this course is at the discretion of the HOD English.

OUTLINE OF COURSE

This course builds on and reinforces the skills developed in Level 1 English Communication. In particular the course focuses on further development of Reading and Writing Skills. Viewing and Media Production Skills along with Speaking and Presentation Skills are also emphasised.

ASSESSMENT

This course offers assessment in Level 2 English and Core Skill Standards. A selection from:

Number	Credits	Title	Internal/external
2.5	3	Construct and deliver a crafted and controlled oral text	Internal
2.6	3	Create a crafted and controlled visual and verbal text	Internal
2.7	4	Analyse significant connections across texts, supported by evidence	Internal
2.9	4	Form developed personal response to independently read texts, supported by evidence	Internal
2.10	3	Analyse aspects of visual and/or oral text(s) through close viewing, supported by evidence	Internal
2989	3	Select, Assess, and Read Texts to Gain Knowledge	Internal
3488	6	Write Business Correspondence for a Workplace	Internal
3492	3	Write a Short Report	Internal

WHERE DOES IT LEAD

Students may complete the Level 2 English Course or the Media Studies Course the following year. English skills are a requirement for many careers.

FOR FURTHER INFORMATION SEE Ms Gorman

ENGLISH

LEVEL 2 (YEAR 12)

PREREQUISITES A minimum of 12 credits in NCEA Level 1 English, at least 4 of which must come from the externally assessed standards AS 90849 (1.1), AS 90850 (1.2), AS 90851 (1.3).

OUTLINE OF COURSE

The course aims to instruct students in the following areas: Reading Skills and Response to Literature (Drama, Novel, Short Stories, Poetry, Non Fiction, and Film), Writing Skills, Research Skills, Speaking and Presentation Skills and Media Production Skills. The course builds on the skills of interpretation and analysis developed in Level 1. Independent study skills along with organisational and co-operative skills are also emphasised.

ASSESSMENT

This course has six components worth a total of 24-26 credits. All students will complete the following standards. Twelve of the credits are externally assessed.

Number	Credits	Title	Internal/external
2.1	4	Analyse specified aspect(s) of studied written text(s), supported by evidence	External
2.2	4	Analyse specified aspect(s) of studied visual or oral text(s), supported by evidence	External
2.3	4	Analyse significant aspects of unfamiliar written text(s) through close reading, supported by evidence	External
2.4	6	Produce a selection of crafted and controlled writing	Internal

Additionally students will complete two standards selected from those listed below. Standards for assessment will be selected by class teachers.

Number	Credits	Title	Internal/external
2.5	3	Construct and deliver a crafted and controlled oral text	Internal
2.6	3	Create a crafted and controlled visual and verbal text	Internal
2.7	4	Analyse significant connections across texts, supported by evidence	Internal
2.9	4	Form developed personal response to independently read texts, supported by evidence	Internal
2.10	3	Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence	Internal

WHERE DOES IT LEAD

Level 3 English or Tertiary Study (e.g. Polytechnic or University). Credits in Reading and Writing at Level 2 are a requirement for Entrance to University. Students who wish to go on to University must take this course. English skills are a requirement for many careers including journalism, law, library work, broadcasting, teaching, drama and production.

FOR FURTHER INFORMATION SEE Ms Gorman

ENGLISH

LEVEL 3 (YEAR 13)

PREREQUISITES A minimum of 12 credits in Level 2 English, including either AS 90375 (2.1) or AS 90376 (2.2) and at least 3 credits from the externally assessed standards AS 90377 (2.3), AS 90378 (2.4), AS 90379 (2.5), AS 90380 (2.6)

OUTLINE OF COURSE

The aim of this course is to provide an interesting and challenging year for students who may or may not wish to continue this subject at tertiary level. The major component of the course involves Literature study: Novel, Short Stories, Drama, Poetry, Non-Fiction and Film. In addition the study of a Shakespearean play is compulsory. There is a Literature Research Topic and an oral seminar based on that research.

ASSESSMENT

This course has seven components worth a total of 24 credits, of which 12 are internally assessed.

Number	Credits	Title	Internal/external
90720	4	Produce an Extended Piece of Writing in a Selected Style	Internal
90721	3	Respond Critically to Written Text(s) studied	External
90722	3	Respond Critically to Shakespearean Drama studied	External
90723	3	Respond Critically to Oral or Visual Text Studied	External
90724	3	Read and Respond Critically to Unfamiliar Prose and Poetry Texts	External
90725	4	Construct and Deliver An Oral Presentation	Internal
90726	4	Complete Independent Research on a Language or Literature Topic and Present Conclusions in Writing	Internal

WHERE DOES IT LEAD

The main traditional purpose of Level 3 English is to prepare students for Stage 1 University work. Many tertiary courses of study require a minimum level of achievement in Literacy and Reading credits. English skills are a requirement for many careers including Journalism, Law, Library work, Broadcasting, Teaching, Drama and Production.

FOR FURTHER INFORMATION SEE Ms Gorman

PREREQUISITE The successful completion of the Year 10 course.

OUTLINE OF COURSE

This full year course is worth a total of 19 credits. It develops the skills of speaking, listening, writing and reading in a variety of everyday situations. It examines aspects of French culture and history at an elementary level.

COSTS

A course workbook costing \$36 and Language Perfect subscription of \$15.

ASSESSMENT

There are two internally assessed achievement standards worth a total of 9 credits and the remaining 10 credits are externally assessed by NCEA exam.

The course is assessed as follows:

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90878	5	Demonstrate understanding of a variety of spoken French texts relating to areas of most immediate relevance	External
90879	4	Give a spoken presentation in French that communicates a personal response.	Internal
90881	5	Demonstrate understanding of a variety of written/visual French texts relating to areas of most immediate relevance	External
90882	5	Write a variety of text types in French on areas of most immediate relevance	Internal

WHERE DOES IT LEAD?

A second language is an asset in any occupation involving contact with speakers of languages other than English. It will facilitate learning any further language. The University of Otago offers and encourages a number of courses involving language study alongside other subjects. In some cases credit for study at school may be given.

FOR FURTHER INFORMATION SEE Mr Black

PREREQUISITES A balance of credits in external and internal Level 1 French achievement standards.

OUTLINE OF COURSE

Further practice in translation, writing, speaking and listening, emphasising the communicative aspects (e.g. instructions, questions, descriptions, making comments, giving reasons, expressing opinions, discussing plans). Reading for enjoyment, understanding others, using French creatively and generally appreciating life and culture in French speaking countries is an important aspect of the course.

COSTS

A course workbook costing \$36 and a Language Perfect subscription of \$15.

ASSESSMENT

There are two internally assessed achievement standards worth a total of 9 credits and the remaining 10 credits are externally assessed by NCEA exam.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
2.1	5	Demonstrate understanding of a variety of spoken French texts on familiar matters	External
2.2	4	Give a spoken presentation in French that communicates information, ideas and opinions	Internal
2.4	5	Demonstrate understanding of a variety of written/visual French text(s) on familiar matters	External
2.5	5	Write a variety of text types in French for genuine contexts	Internal

WHERE DOES IT LEAD?

To Level 3 French and university study of the language, for teachers, translators, interpreters. For jobs in government departments, especially Foreign Affairs, travel, tourism, journalism, administration, marketing, law, etc, especially in multi-national companies. For personal travel around Europe and other French-speaking areas and opportunities for exchange visits to French-speaking countries

FOR FURTHER INFORMATION SEE Mr Black

FRENCH

LEVEL 3 (YEAR 13)

PREREQUISITES A minimum of 10 credits in Level 2 French, five of which must be from an external.

OUTLINE OF COURSE

Level 3 French is an extension of the Level 2 course in grammar and vocabulary, emphasising the skills of listening, speaking, reading and writing, with prescribed vocabulary and grammar, and a wide range of themes for possible study.

Note: we have offered this course recently by video-conferencing, with Mr Black as the group teacher, linking with several local schools.

COSTS A course workbook costing \$36 and a Language Perfect subscription of \$15

ASSESSMENT

There are 3 internally assessed achievement standards worth a total of 9 credits and the remaining 15 credits are externally assessed by NCEA exam.

Number	Credits	Title	Internal/external
90558	6	Listen to and understand complex spoken French in less familiar contexts	External
90559	3	Give a prepared speech in French using complex language	Internal
90561	6	Read and understand written French, containing complex language, in less familiar contexts	External
90562	3	Write text in French using complex language on a less familiar topic	External
90563	3	Write crafted text in French using complex language, with the report of resources	Internal

WHERE DOES IT LEAD?

To Year 13 and university study of the language, for teachers, translators, interpreters. For jobs in government departments, especially Foreign Affairs, travel, tourism, journalism, administration, marketing, law, etc, especially in multi-national companies. For personal travel around Europe and other French-speaking areas. Opportunities for exchange visits to French -speaking countries.

FOR FURTHER INFORMATION SEE Mr Black

GATEWAY

LEVEL 2/3 (YEAR 13)

PREREQUISITES Year 12 students must apply in the October of 2011 to secure places for 2012. Students need good numeracy and literacy skills. Places offered may be conditional offers dependent on external results. Students need to be able to manage their academic studies with the one day a week work placement in their chosen industry. A good attendance record at school is necessary.

OUTLINE OF COURSE

The class has a maximum of twenty students as all students are undertaking an individual learning plan of Unit Standards tailored to their needs.

Up to 20 credits at Levels 2 and 3 can be gained from the successful completion of Gateway. It delivers hands on practical learning that leads to nationally recognised qualifications. Learning is customised to allow students to complement the employer's-business. Gateway builds skills for employment working in real workplaces on real tasks. It gives opportunities to try a potential career and build links to Industry Training Organisations. Students are timetabled in a Gateway class at school in order to receive assistance with completing their industry based unit standards.

ASSESSMENT

Unit standards are assessed by the employer, classroom teacher and industry moderator where appropriate.

WHERE DOES IT LEAD?

Some unit standards completed give exemptions on apprentice programmes. Some students may secure apprenticeships or permanent employment for the following year as an outcome. **Credits gained from Industry Training Organisations as part of the Gateway Programme will not assist students in gaining University Entrance.**

FOR FURTHER INFORMATION SEE Ms Irving

GEOGRAPHY

LEVEL 1 (YEAR 11)

PREREQUISITE None.

OUTLINE OF COURSE

This is a full year course worth 22 credits. The general aim of the Level 1 Geography course is to have students gain an understanding of environments which are homes for people. Students will begin to understand the important natural and cultural features of the environment and to investigate the associated processes and relationships.

Course content consists of two major topics – natural hazards and population studies, one global pattern topic, one New Zealand based study of a geographic issue. Geographic skills such as map interpretation, construction, analysis, research, fieldwork, evaluation, processing, valuing will be developed. Many of these will have been introduced to students through their existing Social Studies programme.

ASSESSMENT

Level 1 Geography has three internal assessment items worth a total of 10 credits.

Three achievement standards at Level 1, worth a total of 12 credits are externally assessed.

Number	Credits	Title	Internal/external
91007	4	Demonstrate a geographic understanding of an extreme natural event.	External
91008	4	Demonstrate geographic understanding of population concepts.	External
91010	4	Apply concepts and basic geographic skills to demonstrate understanding of a given environment.	External
91011	4	Conduct geographic research, with direction.	Internal
91012	3	Describe aspects of a contemporary NZ geographic issue.	Internal
91013	3	Describe aspects of a geographic topic at a global scale.	Internal

WHERE DOES IT LEAD?

A variety of skills such as gathering, processing, evaluating information are developed which can be applied in other subjects. To Level 2 geography where all skills taught are developed further and applied to our local area.

FOR FURTHER INFORMATION SEE Mr Townsend or Mr Henderson

PREREQUISITE A minimum of 12 Level 1 credits in Geography or 12 Level 1 credits in English.

OUTLINE OF COURSE

The Level 2 course covers two main areas: They are: Natural Landscapes: A study of a geographic environment in New Zealand. We study tropical rain forests and coasts as our landscapes. Inequalities of development: An introduction to the differences that have developed between different nations and parts of the world. The course builds on and develops geographic ideas, concepts and skills which will be beneficial for Level 3 studies.

ASSESSMENT

Level 2 Geography has 3 internal assessment items worth a total of 11 credits.

External assessment covers 3 achievement standards at the Level 2, worth a total of 12 credits.

Number	Credits	Title	Internal/external
2.1	4	Demonstrate geographic understanding of a large natural environment.	External
2.3	4	Demonstrate geographic understanding of differences in development.	External
2.4	4	Apply concepts and geographic skills to demonstrate understanding of a given environment.	External
2.5	5	Conduct geographic research with guidance.	Internal
2.6	3	Explain aspects of a contemporary geographic issue.	Internal
2.7	3	Explain aspects of a geographic topic at a global scale.	Internal

WHERE DOES IT LEAD?

To the Level 3 Geography course and provides students with skills that may be beneficial for many jobs that involve interpreting information, writing reports and research. It will be beneficial in many other subject areas.

FOR FURTHER INFORMATION SEE Mr Townsend or Mr Henderson

PREREQUISITE A minimum of 12 Level 2 credits in Geography or 12 Level 2 credits in English (3 gained externally).

OUTLINE OF COURSE

The Level 3 course covers 2 main areas. They are

1. Natural Processes: A study of a geographic environment in New Zealand. We study coastal landscapes as our main process.
2. Cultural Processes: A study of a cultural process at work in both a New Zealand and overseas setting. We look at tourism.

The course builds on and develops geographic ideas, understandings, and skills such as fieldwork, research, local involvement (planning issues), resource gathering and presentation.

ASSESSMENT

1. Level 3 Geography has three internal assessment items worth a total of 9 credits.
2. External assessment covers three achievement standards, worth a total of 12 credits

Number	Credits	Title	Internal/external
90701	4	Analyse a geographic environment, focussing on the interacting natural process.	External
90702	4	Analyse a cultural process.	External
90704	4	Select and apply skills in a geographic context.	External
90705	3	Carry out research with consultation.	Internal
90706	3	Analyse a contemporary geographic issue and evaluate courses of action.	Internal
90707	3	Analyse a global geographic study.	Internal

WHERE DOES IT LEAD?

Level 3 Geography prepares students for tertiary studies. It emphasises skills in report writing and information interpretation. Specifically it provides the necessary background for degrees in the Arts and Sciences, as well as applied degrees such as in Resource Management, Parks and Recreation, Agriculture and Planning. Geography graduates find employment in such areas as Regional Councils, Government Advisory Units, Administration, Public Relations, Research, Tourism and Education.

FOR FURTHER INFORMATION SEE Mr Townsend

GERMAN

LEVEL 1 (YEAR 11)

PREREQUISITE The successful completion of the Year 10 course.

OUTLINE OF COURSE

This full year course is worth a total of 24 credits. It develops the skills of speaking, listening, writing and reading in a variety of everyday situations. It examines aspects of German culture and history at an elementary level.

COSTS

A course workbook costing \$36 and a Language Perfect subscription of \$15.

ASSESSMENT

There are two internally assessed achievement standards worth a total of 9 credits and the remaining 10 credits are externally assessed by NCEA exam.

Number	Credits	Title	Internal/external
90883	5	Demonstrate understanding of a variety of spoken German texts relating to areas of most immediate relevance	External
90884	4	Give a spoken presentation in German that communicates a personal response.	Internal
90886	5	Demonstrate understanding of a variety of written/visual German texts relating to areas of most immediate relevance	External
90885	5	Write a variety of text types in German on areas of most immediate relevance	Internal

WHERE DOES IT LEAD?

A second language is an asset in any occupation involving contact with speakers of languages other than English. It will facilitate learning any further language. The University of Otago offers and encourages a number of courses involving language study alongside other subjects. In some cases credit for study at school may be given.

FOR FURTHER INFORMATION SEE Mr Black

GERMAN

LEVEL 2 (YEAR 12)

PREREQUISITES 10 credits at Level 1, five from an external.

OUTLINE OF COURSE

Students develop further the language skills required in previous studies, the emphasis on the communication aspects and the skill of reading receiving greater emphasis than previously. They will learn to ask for and give information; give directions and instructions; express feelings and opinions; give reasons and explanations; make requests; read for enjoyment and information; use language creatively; appreciate life and culture in German speaking countries.

COSTS

A course workbook costing \$36 and a Language Perfect subscription of \$15.

ASSESSMENT

There are two internally assessed achievement standards worth a total of 9 credits and the remaining 10 credits are externally assessed by NCEA exam.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
2.1	5	Demonstrate understanding of a variety of spoken German texts on familiar matters	External
2.2	4	Give a spoken presentation in German that communicates information, ideas and opinions	Internal
2.4	5	Demonstrate understanding of a variety of written/visual German text(s) on familiar matters	External
2.5	5	Write a variety of text types in German for genuine contexts	Internal

WHERE DOES IT LEAD?

To Level 3 and university study of the language, for teachers, translators, interpreters. To jobs in government departments, especially Foreign Affairs, travel, tourism, journalism, administration, marketing, law, etc. especially in multi-national companies. For personal travel around Europe and other German speaking areas. Opportunities for exchange visits to German speaking countries.

FOR FURTHER INFORMATION SEE Mr Black

GERMAN LEVEL 3 (YEAR 13)

PREREQUISITES Level 2 German with 10 credits across internals and externals.

OUTLINE OF COURSE

As well as extending the language skills acquired in the Year 12 course, students will be able to: discuss ideas, events, and issues, present arguments for and against, express their ideas imaginatively, understand and convey specific information, read a variety of material, including authentic texts, speak and write in German, showing some mastery of the language, gain an insight into the values and attitudes of German-speaking people. A wide variety of themes may be studied including literary works, and excerpts from the media.

COSTS

A course workbook costing \$36 and a Language Perfect subscription of \$15.

ASSESSMENT

There are three internally assessed achievement standards worth a total of 9 credits and the remaining 15 credits are externally assessed by NCEA exam.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90564	6	Listen to and understand complex spoken German in less familiar contexts	External
90565	3	Give a prepared speech in German using complex language	Internal
90567	6	Read and understand written German, containing complex language, in less familiar contexts	External
90568	3	Write text in German using complex language on a less familiar topic	External
90569	3	Write crafted text in German using complex language, with the report of resources	Internal

WHERE DOES IT LEAD?

To Year 13 and university study of the language, for teachers, translators, interpreters. For jobs in government departments, especially Foreign Affairs, travel, tourism, journalism, administration, marketing, law, etc, especially in multi-national companies. For personal travel around Europe and other German-speaking areas. Opportunities for exchange visits to German -speaking countries.

FOR FURTHER INFORMATION SEE Mr Black

PREREQUISITES Graphics in Years 9 and /or 10 preferred, but not essential.

OUTLINE OF COURSE

Graphics is an NCEA course which has three units which are internally assessed and three which are externally assessed. Together these are worth a total of 27 credits towards the National Certificate of Educational Achievement. Students will have the opportunity to offer work in all six units. Students will cover a variety of topics including design, problem solving and graphic communication. Freehand drawing is emphasized as a means of helping to solve design problems. Research skills, initiative, ingenuity and resourcefulness are also attributes a student will develop through his work.

ASSESSMENT

Students will work through a number of design briefs, each leading to the acquisition of the knowledge required to gain credits for the particular internally assessed achievement standard. Throughout the year students will assemble a folio containing information required to be assessed for the external units. This information will be gathered as the student completes the requirements of the internal units. There is no exam in this subject – the work generated by the student throughout the year is used for moderation purposes.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
91046	6	Use design ideas to produce a conceptual design for an outcome to a design brief.	Internal
91063	3	Produce freehand sketches that communicate design ideas	External
91064	3	Produce instrumental, multi-view orthographic drawings that communicate technical features of design ideas	External
91065	3	Produce instrumental paraline drawings to communicate design ideas	External
91066	3	Use rendering techniques to communicate the form of design ideas	Internal
91067	3	Use the work of an influential designer to inform design ideas.	Internal
91068	6	Undertake development of design ideas through graphics practice	Internal

WHERE DOES IT LEAD

Within school - to NCEA Level 2 Graphics Achievement Standards

Graphics is not trade or vocational oriented. It provides a wide range of learning skills and opportunities, which transfer to a wide range of occupations, or further vocational or tertiary education.

FOR FURTHER INFORMATION SEE Mr. Panting

PREREQUISITES For a student to be able to attempt Level 2 Graphics Achievement Standards he must have at least 12 credits at Level 1 Graphics (with a minimum of 6 external credits). Students with less than the required number of credits will only be considered for inclusion in the course in consultation with the Teacher in Charge of Graphics.

OUTLINE OF COURSE

This course builds on the skills learned in Level 1 NCEA Graphics. Graphics is an NCEA course which has three units which are internally assessed and three which are externally assessed. Together these are worth a total of 23 credits towards the National Certificate of Educational Achievement. Students will work on a variety of topics including design, problem solving and graphic communication to solve given problems. Freehand sketching is again emphasized as a method for communicating information with other drawing methods being used as appropriate.

ASSESSMENT

Students will work through a number of design briefs, each leading to the acquisition of the knowledge required to gain credit for the particular internally assessed achievement

standard. There is no exam in this subject – the work generated by the student throughout the year is used for moderation purposes. The external assessment requires the student to send complete units of work for moderation. Inherent in these units should be evidence that the student can understand and use all the necessary drawing skills and has met all the requirements of the Achievement Standards.

Number	Credits	Title	Internal/external
	3	Communicate design ideas using visual communication techniques	External
	4	Use working drawings to communicate technical details of a design	External
	3	Produce instrumental perspective projection drawings to communicate design ideas.	External
	3	Use the characteristics of a design movement or era to inform own design ideas.	Internal
**	6	Develop a spatial design through graphics practice	Internal
**	6	Develop a product design through graphics practice	Internal
	4	Use visual communication techniques to present own design	Internal

** Only 1 of these 2 units will be offered

WHERE DOES IT LEAD

To NCEA Level 3. Graphics provides a wide range of learning skills and opportunities, which transfer to a wide range of occupations, or further vocational or tertiary education.

FOR FURTHER INFORMATION SEE Mr. Panting

GRAPHICS

LEVEL 3 (YEAR 13)

PREREQUISITES For a student to be able to attempt Level 3 Graphics Achievement Standards must have at least 12 credits (with a minimum of 6 external credits) in Level 2 Graphics. Students with less than the required number of credits will only be considered for inclusion in the course in consultation with the Teacher in Charge of Graphics.

Number	Credits	Title	Internal/external
90734	5	Negotiate a brief and a solution by applying a design process	External
90735	4	Plan and produce a presentation to communicate design ideas	External
90736	5	Develop and present a solution to an architectural or environmental design brief	Internal
90737	5	Develop and present a solution to an engineering or technological design brief	Internal
90738	5	Develop and present a solution to a media or technical illustration design brief	Internal

OUTLINE OF COURSE

This course builds on the skills learned in Level 2 NCEA Graphics. Level 3 NCEA Graphics has three units which are internally assessed and two which are externally assessed. Together these are worth a total of 24 credits towards the National Certificate of Educational Achievement. During the year the student will identify needs, write appropriate design briefs and produce solutions to satisfy the identified needs. Independence of learning will be required. Students will work on a variety of topics which include design, problem solving and graphic communication to solve given problems. Freehand sketching is again emphasized as a method for communicating information with other drawing methods being used as appropriate.

ASSESSMENT

Students will work through a number of design briefs, each leading to the acquisition of the knowledge required to gain credit for the particular internally assessed achievement standard. There is no exam in this subject. The work generated by the student throughout the year is used for moderation purposes. The external assessment requires the student to send complete units of work for moderation. Inherent in these units should be evidence that the student can understand and use all the necessary drawing skills and has met all the requirements of the Achievement Standards.

FOR FURTHER INFORMATION SEE Mr. Panting

PREREQUISITE None

OUTLINE OF COURSE

1. The general aim of the year 11 History course is to have students develop the following skills: to gather and recall information; to understand simple relationships; to classify, contrast and compare; to develop the ability to interpret a wide range of historical resources e.g. cartoons, film, maps, documents; to recognise different points of view, bias, and the difference between fact and opinion.
2. Many of the above skills will have been introduced to students through the existing social studies programme. Three topics are studied from the following:
 - a) Origins of World War II
 - b) Conflict in Ireland 1909-1922
 - c) Stalin's Russia 1924-1957
 - d) New Zealand's Search for Security 1945-85

ASSESSMENT

This is a full year course worth 24 credits. There are three internally assessed achievement standards worth 12 credits. The remaining credits are externally assessed.

Number	Credits	Title	Internal/external
AS91001	4	Carry out an investigation of an historical event or place	Internal
AS91002	4	Demonstrate understanding of an historical event or place	Internal
AS91003	4	Interpret sources of an historical event	External
AS91004	4	Demonstrate an understanding of different perspectives	Internal
AS91005	4	Describe the causes and consequences of an historical event	External
AS91006	4	Describe how a significant historical event affected New Zealand society	External

FOR FURTHER INFORMATION SEE Ms Curtis

PREREQUISITE A minimum of 12 Level 1 credits in History, including one of either AS 91003 or 91005 or 91006. Students who wish to study History for the first time at Level 2, and who have good grades in English, must seek the approval of the HOD History.

OUTLINE OF COURSE

This course is based on two of the following topics: The Search for Security in the Nuclear Age, The Origins of World War 1, The Weimar Republic and the Nazi state, Revolution in Russia, The American War of Independence and the Making of the Republic. Students develop and refine the skills of analysis and interpretation introduced at Level 1. The research process is extended through internal achievement standards with an emphasis on communication methods.

ASSESSMENT

This a full year course worth a total of 28 credits. Three achievement standards worth 14 credits are assessed internally.

Number	Credits	Title	Internal/external
2.1	4	Carry out a planned inquiry of an historical event, or place	Internal
2.2	5	Examine an historical event, or place, of significance	Internal
2.3	4	Examine sources of an historical event of significance	External
2.4	5	Interpret different perspectives of people in an historical event	Internal
2.5	5	Examine causes & consequences of a significant historical event	External
2.6	5	Examine how a significant historical event affected New Zealand society	External

FOR FURTHER INFORMATION SEE Ms Curtis

HISTORY**LEVEL 3 (YEAR 13)**

PREREQUISITES A minimum of 12 Level 2 History credits including one of either AS 90467 or 90469 or 90470. Students who wish to study History for the first time at Level 3 and who have good grades in English, must seek the approval of the HOD History.

OUTLINE OF COURSE

The context of the course is Tudor and Stuart England 1558-1667, with emphasis on studies dealing with economic and social structures, behaviour and change, politics, government and revolution, religious and social values and beliefs. The emphasis is on research processes and in developing evaluation skills and appropriate communication methods, oral and written. At this level particularly, students will be introduced to the study of the nature of historiography, and analysis of primary and secondary sources.

ASSESSMENT

This is a full year course worth 24 credits. There are two internally assessed achievement standards worth 9 credits.

Number	Credits	Title	Internal/external
AS90654	4	Plan and carry out independent historical research	Internal
AS90655	5	Communicate and present historical ideas	Internal
AS90656	5	Analyse and evaluate evidence in historical sources	External
AS90657	5	Examine a significant decision made by people in history	External
AS90658	5	Examine a significant historical situation, in the context of change	External

WHERE DOES IT LEAD?

The study of history at Level 3 will lead on to tertiary studies. Career aspects include Law, Journalism, Teaching, Commerce and Business, Public Relations, the Police, the Armed Forces, Advertising, Library work, Tourism, Government Departments, Publishing, Broadcasting, Foreign Affairs, Social Work, as well as specific fields such as those of Archaeology, Museum Officer, Archivist or Research Officer.

FOR FURTHER INFORMATION SEE Ms Curtis

JAPANESE**LEVEL 1 (YEAR 11)**

PREREQUISITES - Year 10 Course

OUTLINE OF COURSE

The Level 1 Japanese course continues on from the Year 9 and 10 programme covering the grammatical structures, vocabulary and cultural knowledge requirements for students to achieve the N.C.E.A. Level 1 requirements. The four main language skills are developed further in themes such as; Families, Animals As Friends, Having Fun and Cultural Festivals in the *Mirai 2* course and work book series. Katakana is taught at this level for the first time, fifty five Kanji are introduced and Culture is also looked at in more detail. Supplementary material is available with the *Getting There in Japanese* series of texts that cover Work and Leisure, Travel, Eating Out, Town and Around. A workbook will be required costing \$25.50.

ASSESSMENT

There are three internal achievement standards worth 14 credits and two external achievement standards worth 10 credits.

Number	Credits	Title	Internal/external
1.1	5	Demonstrate understanding of a variety of spoken Japanese texts relating to areas of most immediate relevance	External
1.2	4	Give a spoken presentation in Japanese that communicates a personal response	Internal
1.3	5	Interact using spoken Japanese to communicate personal information, ideas and opinions in different situations	Internal
1.4	5	Demonstrate understanding of a variety of written/visual Japanese texts relating to areas of most immediate relevance	External
1.5	5	Write a variety of text types in Japanese on areas of most immediate relevance	Internal

WHERE DOES IT LEAD?

Japanese continues in Year 12 and in Year 13 with NCEA Levels 2 and 3.

FOR FURTHER INFORMATION SEE Mr Bell

JAPANESE

LEVEL 2 (YEAR 12)

PREREQUISITES - Level 1 course or equivalent.

OUTLINE OF COURSE

The Year 12 Japanese course builds on from the Year 11 programme covering grammatical structures, vocabulary and cultural knowledge requirements for NCEA Level 2. The 3 writing systems are integrated and used extensively, with seventy five further kanji being taught. The students will increase and extend their language skills as well as their knowledge of the structure of Japanese society and the Japanese way of life. Language skills are developed further in topics such as; Japanese Tradition, Peace and Nature, Fun Times, in the *Mirai 3 & 4* course and work book series. Supplementary material is available with the *Getting There in Japanese* series of texts that cover Family Life, Eating and Drinking, the Education System and Leisure Time.

A workbook will be required costing \$25.50.

ASSESSMENT

There are three internally assessed Achievement Standards worth a total of 15 credits and two externally assessed Achievement Standards worth a total of 10 credits.

Number	Credits	Title	Internal/external
2.1	5	Demonstrate understanding of a variety of spoken Japanese texts on familiar matters	External
2.2	4	Give a spoken presentation in Japanese that communicates information, ideas and opinions	Internal
2.3	5	Interact using spoken Japanese to communicate personal information, ideas and opinions in different situations	Internal
2.4	5	Demonstrate understanding of a variety of written/visual Japanese texts relating to areas of most immediate relevance	External
2.5	5	Write a variety of text types in Japanese on areas of most immediate relevance	Internal

WHERE DOES IT LEAD?

Japanese continues in Year 13 with NCEA Level 3.

FOR FURTHER INFORMATION SEE Mr Bell

JAPANESE

LEVEL 3 (YEAR 13)

PREREQUISITES - Year 12 course or equivalent.

OUTLINE OF COURSE

The Year 13 Japanese course continues on from the Year 12 programme covering the remaining grammatical structures, vocabulary and cultural knowledge requirements for NCEA Level 3. The three writing systems are used extensively, with the last of the required two and three kanji being taught. Language skills are developed further, with the final units of the *Mirai 3 & 4* course and work book series. Supplementary material is available with the *Getting There in Japanese* series of texts that cover Land and People, Tourism, Working Society and Media.

ASSESSMENT

Year 13 Japanese has three internally assessed Achievement Standards worth a total of 15 credits and two externally assessed Achievement Standards 15 credits. A scholarship pass in Level Four is likely to allow direct entry to year 2 Japanese at University.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
3.1	5	Demonstrate understanding of a variety of spoken Japanese texts on familiar matters	External
3.2	4	Give a spoken presentation in Japanese that communicates information, ideas and opinions.	Internal
3.3	5	Interact using spoken Japanese to communicate personal information, ideas and opinions in different situations	Internal
3.4	5	Demonstrate understanding of a variety of written/visual Japanese texts relating to areas of most immediate relevance	External
3.5	5	Write a variety of text types in Japanese on areas of most immediate relevance	Internal

WHERE DOES IT LEAD?

The Japanese language courses available at Universities and Polytechnics extend the skills gained at high school level developing overall fluency and accuracy. There is a large variety of career opportunities available in both New Zealand and overseas for people who can speak Japanese. Popular choices are sport coaching/teaching, media, translating, trade relations, hospitality and tourism

FOR FURTHER INFORMATION SEE Mr Bell

LEGAL STUDIES

LEVEL 2 (YEAR 12)

PREREQUISITES A minimum of 12 Level 1 English or History credits.

OUTLINE OF COURSE

Legal Studies aims to equip students with the knowledge, skills, attitudes and values to enable them to understand, appreciate and actively participate in the legal system. Learning in Legal Studies will range from a focus on the academic study of law to law related life skills on a more practical level.

ASSESSMENT

Eight Units Standards worth a total of 21 credits are assessed internally.

WHERE DOES IT LEAD?

The study of law at university. A working knowledge of the practical aspects of law is useful for everyone.

FOR FURTHER INFORMATION SEE Mr Rust

MATHEMATICS

LEVEL 1 (YEAR 11)

PREREQUISITES Year 9 and 10 Mathematics. All students will be expected to take this course.

OUTLINE OF COURSES

The courses provided are determined by the National Mathematics Curriculum and revised NCEA assessment framework. These courses aim to instruct students in the following main areas: Number, Algebra, Graphing, Geometry, Trigonometry, Statistics and Probability.

While students may have a preference as to which course they choose, the final placement may be dependent on their performance in Year 10 and advice from their Year 10 Mathematics teacher.

ASSESSMENT

Regular Course (11MA1)

This course caters for students who have already demonstrated a satisfactory level of achievement in mathematics. It will be assessed entirely by a combination of Internal and External NCEA Achievement Standard assessment tasks.

Number	Credits	Title	Internal/external
1.1	4	Apply numeric reasoning when solving problems	Internal
1.2	4	Apply algebraic methods	External
1.3	4	Investigate relationships between tables, equations or graphs	External
1.6	4	Apply geometric reasoning	External
1.10	4	Investigate a given multivariate data set using the statistical enquiry cycle	Internal
1.12 and/or	4	Demonstrate understanding of chance and data	External
1.13	3	Investigate a situation involving elements of chance	Internal

Alternative Assessment Course (11MA2)

An Alternative Assessment course is provided. This course will cater for students for whom a less rigorous Mathematics Course is more appropriate. The course will be assessed by Internal NCEA Achievement standard assessment tasks, however the opportunity may arise for students to attempt the externals 1.2 and 1.3.

Number	Credits	Title	Internal/external
1.1	4	Apply numeric reasoning when solving problems	Internal
1.4	3	Apply linear algebra to solve problems	Internal
1.5	3	Solve measurement problems	Internal
1.7	3	Solve measurement problems involving right angled triangles	Internal
1.8	3	Apply knowledge of geometric representations	Internal
1.9	2	Apply transformation geometry	Internal
1.11	3	Use the statistical enquiry cycle to investigate bivariate numerical data	Internal
1.13	3	Investigate a situation involving elements of chance	Internal
<i>Possibly</i>			
1.2	4	Apply algebraic methods	External
1.3	4	Investigate relationships between tables, equations or graphs	External

WHERE DO THEY LEAD?

These courses will lead to Year 12 Mathematics courses.

FOR FURTHER INFORMATION SEE *Mr Doran*

MATHEMATICS

LEVEL 2 (YEAR 12)

OUTLINE OF COURSES

The courses provided are determined by the National Mathematics Curriculum and revised NCEA assessment framework. These courses aim to instruct students in the following main areas: Number, Algebra, Graphing, Geometry, Trigonometry, Statistics and Probability. While students may have a preference as to which course they choose, the final placement may be dependent on their performance in Year 11 and advice from their Year 11 Mathematics teacher.

Three levels of learning are provided to cater for the level of learning which best suits the mathematical ability of the students

Advanced Level Course (12MA1)

Our year 12MA1 Level 2 Mathematics classes undertake learning throughout the year that will prepare students for NCEA with an emphasis in learning at the Merit and Excellent level. This course would prepare students for Level 3 Calculus and Statistics courses in 2013.

Prerequisites

It would be expected that students entering this course would have passed 1.2 (Algebra) and 1.3 (Graphing) with merit or excellence and overall have their maths results endorsed with merit or excellence.

Assessment Outline

There are three externally assessed standards worth 13 credits and four internally assessed achievement standards worth 13 credits.

Number	Credits	Title	Internal/external
2.1	2	Co-ordinate Geometry – Apply co-ordinate geometry methods in solving problems.	Internal
2.2	4	Graphical Methods – Apply graphical methods in solving problems.	Internal
2.4	3	Trigonometry – Apply trigonometric relationships in solving problems.	Internal
2.6	4	Algebra – Apply algebraic methods in solving problems.	External
2.7	5	Calculus – Apply calculus methods in solving problems.	External
2.9	4	Statistics – Use statistical methods to make an inference.	Internal
2.12	4	Probability – Apply probability methods in solving problems.	External
Possibly			
2.14	2	Systems of Equations – Apply systems of equations in solving problems.	Internal

Regular Level Course (12MA2)

Our year 12MA2 Level 2 Mathematics classes undertake learning throughout the year that will prepare students for NCEA with an emphasis in learning at the Achieved and some Merit level only. This course would prepare students for the level 3 Statistics course in 2013.

Prerequisites

It would be expected that students entering this course would have passed 1.2 (Algebra) and 1.3 (Graphing) and gained a minimum of 15 Level 1 credits.

Assessment Outline

There are seven internally assessed worth 19 credits and 1 externally assessed standard worth 4 credits.

Number	Credits	Title	Internal/external
2.1	2	Co-ordinate Geometry – Apply coordinate geometry methods in solving problems.	Internal
2.2	4	Graphical Methods – Draw straightforward non-linear graphs.	Internal
2.3	2	Sequences & Series – Apply sequences and series in solving problems.	Internal
2.4	3	Trigonometry – Apply trigonometric relationships in solving problems.	Internal
2.5	2	Networks – Use networks in solving problems	Internal
2.9	4	Statistics – Use statistical methods to make an inference.	Internal
2.12	4	Probability – Apply probability methods in solving problems.	External
2.14	2	Systems of Equations – Apply systems of equations in solving problems	Internal

FOR FURTHER INFORMATION SEE Mr Doran

Applied Course (12MA3)

The Year 12 Maths Applied course (12MA3) is to prepare students for future vocations and associated study. The classes undertake learning throughout the year that will prepare students for NCEA.

Prerequisites: None

Assessment Outline

There are eight internally assessed standards worth 19 credits.

Number	Credits	Title	Internal/external
2.1	2	Co-ordinate Geometry – Apply coordinate geometry methods in solving problems.	Internal
2.3	2	Sequences & Series – Apply sequences and series in solving problems.	Internal
2.4	3	Trigonometry – Apply trigonometric relationships in solving problems.	Internal
2.5	2	Networks – Use networks in solving problems	Internal
2.8	3	Statistics – Design a questionnaire	Internal
2.10	3	Statistics – Conduct an experiment to investigate a situation using statistical methods.	Internal
2.11	2	Statistics – Evaluate a statistically based report.	Internal
2.13	2	Simulations – Investigate a situation using a simulation.	Internal

FOR FURTHER INFORMATION SEE Mr Doran

MEDIA STUDIES

LEVEL 2 (YEAR 12)

PREREQUISITES A minimum of 12 credits in NCEA Level 1 English, including A.S.90054 (1.3) and A.S.90057 (1.6) Close Reading.

OUTLINE OF COURSE

This is a full year course worth up to 29 credits. It aims to develop the understanding of the mass media. The course examines the content and production of newspapers, television, radio and film media. It develops critical skills of interpretation and analysis. There is also a practical component where students create their own media product. The production focus at this level is print media.

ASSESSMENT

The course comprises 29 possible credits. Up to 20 credits are internally assessed and nine credits are externally assessed.

Number	Credits	Title	Internal/external
2.1	3	Demonstrate understanding of the relationship between a media product and its audience.	External
2.2	4	Demonstrate understanding of narrative in media texts.	Internal
2.3	3	Demonstrate understanding of representation in the media.	External
2.4	3	Demonstrate understanding of a media genre.	External
2.5	4	Produce a design and plan for a developed media product, using a range of conventions.	Internal
2.6	6	Complete a developed media product from a design and plan, using a range of conventions.	Internal
2.7	3	Demonstrate understanding of an ethical issue in the media.	Internal
2.8	3	Write developed media text for a specific target audience.	Internal

NOTE: 1 of either 2.1 or 2.8 will not be offered

WHERE DOES IT LEAD?

Students may go on to Level 3 Media Studies or go on to Tertiary courses in Media Studies, Journalism, Drama and Production.

FOR FURTHER INFORMATION SEE Mr Gabbusch

PREREQUISITES A minimum of 12 credits in NCEA Level 2 English, including AS 90379 (2.5) Analyse a Visual or Oral Text & AS 90380 (2.6) Read unfamiliar texts and analyse the ideas and language features

OUTLINE OF COURSE

This is a full year course worth 24 credits. It aims to develop the understanding of the mass media. The course examines the content and production of news, television and film media. It develops critical skills of interpretation and analysis. There is also a practical component where students create their own media product. The production focus at this level is visual media.

ASSESSMENT

The course comprises 24 credits, 16 credits are internally assessed (8 credits obtained through the production of two 2000 word essays and 8 credits obtained through the production of a visual media item) and 8 credits are externally assessed.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
3.1	4	Demonstrate understanding of a specific media industry	External
3.2	4	Explain how meaning is created in media texts	Internal
3.3	4	Explain the relationship between a media genre and society	External
3.4	2	Complete and justify a concept and treatment for a media product	Internal
3.5	6	Create a media product using appropriate media technology	Internal
3.6	4	Investigate an aspect of media and explain its significance for New Zealand	Internal

WHERE DOES IT LEAD?

Students may go on to Tertiary courses in Media Studies, Journalism, Drama and Production.

FOR FURTHER INFORMATION SEE Mr Gabbusch

METAL PRODUCT DESIGN- TECHNOLOGY LEVEL 1 (YEAR 11)

PREREQUISITES

Year 9 and/or 10 workshop pass grade of ‘Achieved’ or better. New students are welcome if they are enthusiastic about achieving quality products. These boys will need to consult with the ‘teacher in charge’ and may be accepted on a trial basis to ensure commitment to achievement.

COURSE OUTLINE

Metal Product Design is an Achievement Standards based course that offers 23 credits towards NCEA. There are no exams in this subject. You are assessed on the research, development and construction of two projects. The course will encompass computer research and development, sketching, scale modelling, product design and development, construction techniques and application. The intent of the course is to provide the opportunity to express your creativeness and expand your practical skills through producing a well-designed and completed chair or stool and aluminium casting that you can take home with pride. Steel is a required component in your projects but other materials are encouraged. Wood, plastics, glass, fabric (upholstery), casting (aluminium), and any material can be considered appropriate. Many different practical skills will be taught throughout the year, such as mig welding, gas welding, brazing, various cutting and joining techniques, upholstery, finishing/painting, lathing

ASSESSMENT

You will have deadlines to meet for design development and also construction phases. The work will be assessed and a feedback sheet will be given to the student to identify shortcomings, if work is not submitted on the due date there will be no feedback. You can still submit for the final due date. That final submission date has no extensions.

Number	Credits	Title	Internal/external
AS91045	4	Use planning tools to guide the technological development of an outcome to address a brief	Internal
AS91063	3	Produce freehand sketches that communicate design ideas	External
AS91046	6	Use design ideas to produce a conceptual design for an outcome to address a brief	Internal
AS91047	6	Undertake development to make a prototype to address a brief	Internal
AS91056	4	Implement a multi-unit manufacturing process	Internal

WHERE DOES IT LEAD?

Within school, the subject is available in Level 2 (Year 12) and in Level 3 (Year 13).

It is NOT a trade or vocational course,. The objectives are broadly intended to give the student the opportunity to problem solve and create in a physical scenario, rather than purely theoretical work. The skills gathered can be applied to many potential occupations; it is a good launching pad for tertiary (especially design) or trade education. Or can be purely an enjoyable deviation from your core academic pursuits.

MECHANICAL ENGINEERING (Unit Standards) LEVEL 1 (YEAR 11)

PREREQUISITES Experience in Year 10 Technology Metal is preferred but not essential.

OUTLINE OF COURSE

Mechanical Engineering is a predominately hands on subject which is made up of a series of internally assessed, industry based Unit Standards. These Unit Standards will give the students the opportunity to gain credits towards their NCEA Level 1 as well as attaining the industry recognised National Certificate in Mechanical Engineering Level 1. All of these units will be appropriate to the skills expected at this level and the level of learning expected of the students. While about 75% of the course involves practical work the student must understand that an important part of the course involves being in the classroom doing important design and theory components.

ASSESSMENT

Work for Unit Standards is assessed by the teacher, with the results being moderated externally to ensure that those who achieve are of a national standard.

Number	Credits	Title	Internal/external
22923	12	Demonstrate basic workshop skills under close supervision	Competenz
22924	10	Develop a simple product using engineering materials	Competenz
22926	2	Demonstrate knowledge of safety procedures in a workshop	Competenz

COST

A base fee is included in the school fee to cover the costs of metal and other stock items such as bolts, rivets, screws, drills, welding supplies etc. Additional items such as hinges, handles, catches and other special components must be supplied by the student.

WHERE DOES IT LEAD

Within school: Year 12 Workshop Technology Metal

Tertiary: this course will provide a sound foundation for a student who is planning a career that requires good hand-eye co-ordination. Students will be able to progress to Polytechnic courses which have a vocational bias, or alternatively, to go on to other tertiary studies. Students will develop practical knowledge and skills which will benefit them in the future, not necessarily in a career.

FOR FURTHER INFORMATION SEE Mr Densem (Metal) or Mr Odgers (HOD)

PREREQUISITES

Level 1 Metal Product Design with 17 credits gained minimum for automatic course acceptance. Students without the prior experience are welcome if they have good intentions and a desire to achieve quality results. These boys will need to consult with the 'teacher in charge' and may be accepted on a trial basis to ensure commitment to achievement.

COURSE OUTLINE

Metal Product Design is a Unit Standards based course that offers 16 credits towards NCEA. There are no exams in this subject. You are assessed on the research, development and construction of two projects, sheet metal project and major furniture item. The student has a large amount of freedom as to the nature of the projects, it needs to be negotiated with the teacher in charge, but the options are almost limitless. The course will encompass computer research & development, sketching, scales modelling, product design and development, construction techniques and application. The intent of the course is to provide the opportunity to express your creativeness and expand your practical skills through producing a well-designed and completed furniture item and sheet metal item that you can take home with pride. Steel is a required component in your projects but other materials are encouraged. Wood, plastics, glass, fabric (upholstery), casting (aluminium), and any material can be considered appropriate. Many different practical skills will be taught throughout the year, such as sheet metal fabrication, mig welding, gas welding, brazing, various cutting and joining techniques, upholstery, finishing/painting, lathing

ASSESSMENT

You will have deadlines to meet for design development and also construction phases. The work will be assessed and a feedback sheet will be given to the student to identify shortcomings, if work is not submitted on the due date there will be no feedback. You can still submit for the final due date. That final submission date has no extensions.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
US 7528	4	Work to Design – Tolerances using marking out and measuring tools safely in materials technology	Internal
US7527	4	Apply fabrication, assembly and finishing methods in materials technology	Internal
US7525	4	Select materials and establish processes for a manufacturing task	Internal
US7507	4	Use freehand sketching techniques to show design development	Internal

WHERE DOES IT LEAD?

Within school, the subject is available in Level 3 (Year 13).

It is NOT a trade or vocational course. The objectives are broadly intended to give the student the opportunity to problem solve and create in a physical scenario, rather than purely theoretical work. The skills gathered can be applied to many potential occupations; it is a good launching pad for tertiary (especially design) or trade education. Or can be purely an enjoyable deviation from your core academic pursuits while still gaining Level 2 credits.

PREREQUISITES

Level 2 Metal Product Design with 12 credits gained minimum for automatic course acceptance. Students without the prior experience are welcome if they have good intentions and a desire to achieve quality results. These boys will need to consult with the 'teacher in charge' and may be accepted on a trial basis to ensure commitment to achievement.

COURSE OUTLINE

Metal Product Design is an Achievement Standards based course that offers 20 credits towards NCEA. There are no exams in this subject. You are assessed on the research, development and construction of one or two projects, major project and optional minor project. The student has a large amount of freedom as to the nature of the projects, this needs to be negotiated with the teacher in charge but the options are almost limitless. The course will encompass computer research & development, sketching, scales modelling, client interviews, product design & development, construction techniques and application. The intent of the course is to provide the opportunity to express your creativeness and expand your practical skills through producing a well-designed and completed solution to a clients requirements that can be taken home, sold or gifted to the intended recipient. Steel is a required component in your projects but other materials are encouraged. Wood, plastics, glass, fabric (upholstery), casting (aluminium), and any material can be considered appropriate. Many different practical skills will be taught throughout the year, such as sheet metal fabrication, mig welding, gas welding, brazing, various cutting and joining techniques, upholstery, finishing/painting and Lathing

ASSESSMENT

You will have deadlines to meet for design development and also construction phases. The work will be assessed and a feedback sheet will be given to the student to identify shortcomings, if work is not submitted on the due date there will be no feedback. You can still submit for the final due date. That final submission date has no extensions.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
AS90613	8	Develop a conceptual design to address a client issue (minor optional project)	Internal
AS90687	4	Demonstrate techniques in materials technology (major project)	Internal
AS90620	8	Develop a 1 off solution to address a client issue (major project)	Internal

WHERE DOES IT LEAD?

The skills gathered can be applied to many potential occupations; it is a good launching pad for tertiary (especially design) or trade education. Or can be purely an enjoyable deviation from your core academic pursuits, while still gaining Level 3 achievement standards.

MUSIC

LEVEL 1 (YEAR 11)

PREREQUISITES Year 10 Music or suitable previous musical experience (vocal or instrumental), equivalent Grade 2/3 Theory recommended

OUTLINE OF COURSE

It includes performance (solo and group), composition, musical knowledge, aural and score reading.

ASSESSMENT

It is a full year course worth 24 credits. There are three internally assessed standards worth a total of 16 credits and two external assessments worth a total of 8 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
AS91090	6	Perform two pieces of music as a featured soloist	Internal
AS91091	4	Demonstrate ensemble skills through performing a piece of music as a member of a group	Internal
AS91092	6	Compose two original pieces of music	Internal
AS91093	4	Demonstrate aural and theoretical skills through transcription	External
AS91094	4	Demonstrate knowledge of conventions used in music scores	External

WHERE DOES IT LEAD?

Leads to NCEA Level 2 Music course with Performance etc as above, and NCEA Level 3 Music and further music making as leisure or career pursuit.

FOR FURTHER INFORMATION SEE Mr Duffy

PREREQUISITES Equivalent Grade 4-5 Theory (recommended); Instrumental Tuition. Practical music involvement in school music activities.

OUTLINE OF COURSE

The course offers achievement standards in music studies and or performance skills – solo and group, while also continuing composition, musical knowledge, written and aural skills in preparation for Level 3 music.

ASSESSMENT

This is a full year course with several choices of achievement standards. Students can choose from six internally assessed standards worth 23 credits and two externally assessed standards worth 8 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
2.1	6	Perform two substantial pieces of music as a featured soloist	Internal
2.2	3	Perform a substantial piece of music as a featured soloist on a second instrument	Internal
2.3	4	Demonstrate ensemble skills by performing a substantial piece of music as a member of a group	Internal
2.4	6	Compose two substantial pieces of music	Internal
2.8	4	Devise an instrumentation for an ensemble	Internal
AS90268	3	Identify, describe and transcribe elements of music through listening to a range of music	External
AS90269	2	Demonstrate an understanding of the materials and processes of music in a range of scores	External

WHERE DOES IT LEAD?

Level 3 Music. Careers in broadcasting, performance music, teaching, television, and music therapy.

FOR FURTHER INFORMATION SEE Mr Duffy

PREREQUISITES The successful completion of Level 1 (and or 2) Music. It is recommended students have completed grade 5 or 6 theory, associated board or trinity college or equivalent level in instrumental or vocal performance or musicianship.

OUTLINE OF COURSE

The course offers achievement standards in music studies and or performance skills – solo and group, while also continuing composition, arrangement, musical knowledge, written and aural skills in preparation for Tertiary study in Music.

ASSESSMENT

This is a full year course with several choices of achievement standards. Students can choose from six internally assessed standards worth 24 credits and two externally assessed standards worth 8 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
AS90526	4	Present a performance of a programme of music as a member of a group	Internal
AS90775	8	Present a portfolio of musical composition	Internal
AS90776	8	Prepare and present performances of music as a featured soloist	Internal
AS90499	6	Research and present a music topic	Internal
AS90530	3	Demonstrate an understanding of harmonic and tonal procedures in a range of music	External
AS90527	4	Arrange music	Internal
US16553	10	Make a significant contribution to a music performance ensemble	Internal

PREREQUISITES Students need to have shown commitment to fully participate in the practical aspects of this subject in Years 9 and 10.

OUTLINE OF COURSE

This 23 credit course is practically based with an emphasis on the social development of the student and the positive effect that exercise can have on their lifestyle and well-being. The students will participate in a range of physical activities. They will be able to demonstrate knowledge of how their body functions and what effects exercise has on the quality of movement.

ASSESSMENT PROGRAMME

There will be six internally assessed achievement standards worth a total of 23 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
1.1	5	Participate actively in a variety of physical activities	Internal
1.2	5	Knowledge of the body structure and functioning	Internal
1.3	3	Demonstrate quality movement in a physical activity	Internal
1.4	4	Demonstrate understanding of the societal influences on physical activity	Internal
1.5	4	Demonstrate interpersonal skills in a group and the impact of these skills on others	Internal
1.8	2	Take action to assist others to participate in physical activity	Internal

WHERE DOES IT LEAD?

Internally into Level 2 NCEA and externally into the Health and Fitness industry.

FOR FURTHER INFORMATION SEE Mr McGarry

PREREQUISITES A minimum of 16 credits in Level 1 Physical Education or 12 credits in Level 1 English and Science.

OUTLINE OF COURSE

This is a full year course worth 23 credits. It is practically based with an emphasis on the social development of the student and the positive effect that exercise can have on their lifestyle and well-being. Students must be able to demonstrate knowledge of how their body functions and what effects exercise has on their quality on movement.

ASSESSMENT

There are seven internally assessed achievement standards worth a total of 21 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
2.1	3	Examine the relationship between physical activity and health in society	Internal
2.2	5	Explain how anatomical and biomechanical principles relate to performance of a physical activity	Internal
2.3	4	Demonstrate understanding of biophysical principles to training for a physical activity	Internal
2.4	4	Performance of a physical activity against national standards	Internal
2.5	4	Demonstrate understanding of the significance for self, others and society of a significant sporting event.	Internal
2.7	3	Apply risk management strategies to a challenging outdoor activity	Internal

WHERE DOES IT LEAD?

Internally into Level 3 Physical Education. Externally into courses for the health and fitness industry.

FOR FURTHER INFORMATION SEE Mr McGarry.

PREREQUISITES: A minimum of 16 Level 2 Physical Education credits or 10 Level 2 English credits.

OUTLINE OF COURSE

This 24 credit course is practically based with an emphasis on the social development of the student and the positive effect that exercise can have on their lifestyle and well-being. Students must be able to demonstrate what effect skill acquisition has on their quality of movement. Students will continue to develop inter-personal skills in group and team situations.

ASSESSMENT

There are six internally assessed achievement standards worth a total of 24 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
3.1	3	Planning a triathlon training programme	Internal
3.2	3	Evaluating a triathlon training programme	Internal
3.3	5	Appraise performance of a sporting activity	Internal
3.4	4	Performance of a triathlon against a national standard	Internal
3.5	4	Examine a current issue impacting on NZ society	Internal
3.6	5	Examine physical activity levels and take action to influence participation levels of year 9 and 10 students.	Internal

WHERE DOES IT LEAD? Externally into courses for the health and fitness industry.

FOR FURTHER INFORMATION SEE Mr McGarry

PREREQUISITES Credits in NCEA Science AS 90941 (1.2) “Investigate implications of electricity and magnetism for everyday life” OR Science AS 90940 (1.1) “Demonstrate understanding of aspects of mechanics” and concurrently studying Year 12 Mathematics.

OUTLINE OF COURSE

The course covers Motion, Circuits, Waves and Magnetism. Emphasis on logical thinking and developing problem solving skills. Experimental skills are built especially in graph work and mathematical equations. A 2 day practical course on the “Physics of Flight”.

ASSESSMENT

This is a full year course worth 23 credits. There are two internally assessed achievement standards worth a total of 7 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
2.1	4	Carry out a practical physics investigation that leads to a non-linear mathematical relationship.	Internal
90254	4	Demonstrate an understanding of waves.	External
90255	6	Demonstrate an understanding of mechanics.	External
90257	6	Demonstrate an understanding of electricity and magnetism.	External
2.2	3	Demonstrate an understanding of physics in an integrated context. Based on the Physics of Flight.	Internal

WHERE DOES IT LEAD?

The course is a prerequisite for NCEA Level 3 physics. It is a prerequisite for many course Physiotherapy, Radiography, Engineering, Architecture, and Aviation. It can reduce apprenticeship periods significantly. It provides exemptions for many Polytechnic, Trade and N.Z. Certificate courses.

FOR FURTHER INFORMATION SEE Mr Benson or Mr Garbutt

PREREQUISITES A minimum of 13 Level 2 credits in Physics.

OUTLINE OF COURSE

Main topics are Motion, Circuits, Waves, and Modern Physics.

ASSESSMENT

This is a full year course worth 24 credits. There is one internally assessed achievement standard worth 5 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90774	5	Carry out a practical physics investigation with guidance that leads to a mathematical relationship.	Internal
90520	4	Demonstrate an understanding of wave systems.	External
90521	6	Demonstrate an understanding of mechanical systems.	External
90522	3	Demonstrate an understanding of atoms , photons and nuclei.	External
90523	6	Demonstrate an understanding of electrical systems.	External

WHERE DOES IT LEAD?

To university study - Science Degrees, Medicine, Engineering. Prerequisite for Engineering, Optometry and Architecture and may be taken for medicine, food technology etc. Gives exemptions in many polytechnic courses at Trade and N.Z. Certificate level.

FOR FURTHER INFORMATION SEE Mr Benson or Mr Garbutt

OUTLINE OF COURSE

The achievement standards assessed will be taken from the Level 1 Sciences matrix. Three separate courses will be offered: Externally Assessed Science, General Science and Internally Assessed Science.

Externally Assessed Science.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90940	4	Demonstrate an understanding of aspects of mechanics.	External
90944	4	Demonstrate understanding of aspects of acids and bases.	External
90948	4	Demonstrate an understanding of biological ideas relating to genetic variation.	External
90937	4	Demonstrate an understanding of aspects of electricity and magnetism.	External
90932	4	Demonstrate understanding of aspects of carbon chemistry.	External.
90927	4	Demonstrate understanding of biological ideas relating to micro-organisms.	External.

General Science.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
90940	4	Demonstrate an understanding of aspects of mechanics.	External
90944	4	Demonstrate understanding of aspects of acids and bases.	External
90948	4	Demonstrate an understanding of biological ideas relating to genetic variation.	External
90950	4	Investigate biological ideas relating to interactions between humans and micro-organisms.	Internal
90930	4	Carry out a practical chemistry investigation with direction.	Internal
90941	4	Investigate implications of electricity and magnetism for every day life.	Internal

Internally Assessed Science.

Number	Credits	Title	Internal/external
90945	4	Investigate implications of the use of carbon compounds as fuels.	Internal
90935	4	Carry out a practical physics investigation that leads to a linear mathematical relationship with direction.	Internal
90949	4	Investigate life processes and environmental factors that affect them.	Internal
90950	4	Investigate biological ideas relating to interactions between humans and micro-organisms.	Internal
90930	4	Carry out a practical chemistry investigation with direction.	Internal
90941	4	Investigate implications of electricity and magnetism for every day life.	Internal

WHERE DOES IT LEAD?

At School: A foundation course leading on to the specialist sciences – Biology, Chemistry and Physics.

Out of School: A requirement for many employment and training opportunities. Essential for anyone considering engineering, health sciences, horticulture, agriculture, geology, anthropology, architecture, sport science and nutrition.

FOR FURTHER INFORMATION SEE Mr Garbutt or any Science Teacher

SCIENCE

LEVEL 2 (YEAR 12)

OUTLINE OF COURSE

The achievement standards assessed will be taken from the Level 2 Sciences matrix which is new in 2012. This matrix has yet to be finalised by NZQA.

Prerequisites: It would be desirable to have at least four Level 1 Science credits.

Number	Credits	Title	Internal/external
(90312)	4	Carry out a practical investigation with direction.	Internal
(90771)	3	Research information to present a scientific report.	Internal
(90772)	4	Describe the factors and processes involved in the evolution of New Zealand's plants & animals.	External. *
(90767)	3	Describe New Zealand's geological history.	External. *
(90764)	2	Describe the nature and life cycle of stars.	External. *

The * denotes achievement standards that may be changed to internally assessed.

This is a general course designed for those who wish to enhance their knowledge of science and improve their investigative skills.

FOR FURTHER INFORMATION SEE Mr Garbutt

STATISTICS and MODELLING

LEVEL 3 (YEAR 13)

PREREQUISITES A minimum of 16 Level 2 Achievement Standard credits in Mathematics including credits in AS 90284 (2.1) Algebra, AS 90288 (2.5) Statistics and AS 90289 (2.6) Probability. Students taking this course will require a Graphics calculator.

OUTLINE OF COURSE

The course includes Probability, Estimation, Modelling and Equation Solving.

ASSESSMENT

This is a full year course worth 24 credits. There are three computer based internally assessed achievement standards worth 9 credits.

Number	Credits	Title	Internal/external
90641	3	Time Series – Determine the trend for time series data	Internal
90642	3	Confidence Intervals – Calculate confidence intervals for population parameters.	External
90643	4	Probability – Solve straightforward problems involving probability.	External
90644	4	Solving Equations – Solve equations.	External
90645	3	Bivariate Data – Complete a statistical investigation involving bivariate data.	Internal
90646	4	Probability Distributions – Use probability distribution models to solve straightforward problems.	External
90647	3	Curve Fitting – Use a mathematical model involving curve fitting to solve a problem.	Internal

WHERE DOES IT LEAD?

Statistics and Modelling is an essential component of many future studies at both Polytechnic and University. In general, this is a necessary course of study for anyone intending to enter any field where the use of statistics is important, e.g. biological and social sciences, medicine, commerce and administration. Most disciplines at University require some statistics background.

FOR FURTHER INFORMATION SEE Mr Bond or Mr Doran

TE REO MĀORI

LEVEL 1 (YEAR 11)

PREREQUISITES Te Reo Māori or a reasonable base in Te Reo.

OUTLINE OF COURSE

This full year course is worth a total of 30 credits. It develops the skills of Listening, Writing, Reading and Speaking of Te Reo Māori. The course topics are based on the students themselves, their families, their interests, hobbies, and a range of every day topics. The course also aims to deepen students' awareness and understanding of Māori culture and protocol.

ASSESSMENT

The course involves both internal and external assessment. Students sit an exam for the externally assessed standards and the internally assessed standards are administered throughout the year.

Number	Credits	Title	Internal/external
1.1	6	Whakarongo kia mōhio ki te reo o tōna ao	Internal
1.2	6	Kōrero kia whakamahi i te reo o tōna ao	Internal
1.3	6	Pānui kia mōhio ki te reo o tōna ao	External
1.4	6	Tuhi i te reo o tōna ao	External
1.5	6	Waihanga tuhinga i te reo o tōna ao	Internal

WHERE DOES IT LEAD?

Te Reo Māori 2 (Year 12), Te Reo Māori 3 (Year 13). An ability to speak and understand the Māori language is a desirable skill in many employment areas, especially those that work with Māori or require employees who have a cross-cultural awareness. Possible careers include Maori language teacher, Health Professional, Educator, Journalist, Broadcaster, Professional in a government department, Historian, Lecturer, Librarian, Teacher, Lawyer, Police Officer, Tourism Operator, Curator, Actor, Advertising, Anthropologist, Archaeologist, and Archivist

FOR FURTHER INFORMATION SEE Whaea Sacha Dobson

TE REO MĀORI

LEVEL 2 (YEAR 12)

PREREQUISITES A minimum of eighteen credits in NCEA Level 1 Te Reo Māori.

OUTLINE OF COURSE

It continues to develop the skills of Whakarongo, tuhiuhi, panui and Korero. The course covers a variety of topics which change each year, some of these topics include Maori events, personal hopes and aspirations for the future, myths and legends. The course aims to further develop what has been previously learnt.

ASSESSMENT

This full year course is worth a total of 24 credits. There are 14 credits internally assessed.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
2.1	4	Whakarongo i te reo o tōna ao mōhio	Internal
2.2	6	Kōrero i te reo o tōna ao mōhio	Internal
2.3	6	Pānui i te reo o tōna ao mōhio	External
2.4	4	Tuhituhi i te reo o tōna ao mōhio	External
2.5	4	Hanga tuhinga i te reo o tōna ao mōhio	Internal

WHERE DOES IT LEAD?

Te Reo Māori 3 (Year 13). An ability to speak and understand the Māori language is a desirable skill in many employment areas, especially those that work with Māori or require employees who have a cross-cultural awareness. Possible careers include Maori language teacher, Health Professional, Educator, Journalist, Broadcaster, Professional in a government department, Historian, Lecturer, Librarian, Teacher, Lawyer, Police Officer, Tourism Operator, Curator, Actor, Advertising, Anthropologist, Archaeologist, and Archivist

FOR FURTHER INFORMATION SEE Whaea Sacha Dobson

TE REO MĀORI

LEVEL 3 (YEAR 13)

PREREQUISITES A minimum of nineteen credits in NCEA Level 2 Te Reo Māori.

OUTLINE OF COURSE

In this course students develop the skills to understand details of familiar text using Whakarongo, and Panui, and expressing them using both Tuhituhi and Korero. The topics for this course change each year, some examples of possible topics are- the Maori Battalion, marae, the revitalisation of Te Reo Maori and traditional proverbs. The course aims to further develop what has been previously learnt.

ASSESSMENT

This full year course is worth a total of 24 credits. There are 14 credits internally assessed.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
3.1	4	Whakarongo i te reo o te ao whānui	Internal
3.2	6	Kōrero i te reo o te ao whānui	Internal
3.3	3	Pānui kia whai māramatanga i te reo o te ao whānui	External
3.4	4	Whakaoti tuhinga ōkawa i te reo o te ao whānui	External
3.5	4	Hanga tuhinga auaha i te reo o te ao whānui	Internal
3.6	3	Pānui kia wetewete i te reo o te ao whānui	External

WHERE DOES IT LEAD?

University or other tertiary education and beyond. An ability to speak and understand the Māori language is a desirable skill in many employment areas, especially those that work with Māori or require employees who have a cross-cultural awareness. Possible careers include Maori language teacher, Health Professional, Educator, Journalist, Broadcaster, Professional in a government department, Historian, Lecturer, Librarian, Teacher, Lawyer, Police Officer, Tourism Operator, Curator, Actor, Advertising, Anthropologist, Archaeologist, and Archivist

FOR FURTHER INFORMATION SEE Whaea Sacha Dobson

PREREQUISITES Experience in Year 10 Technology (wood) is preferred but not essential.

OUTLINE OF COURSE

Wood Technology is a predominately workshop based subject which is made up of a series of internally assessed FITEC (furniture making) Unit Standards which will give the students the opportunity to gain credits towards NCEA Level 1. All of these units are appropriate to the material being used and the cabinet that each student has to make. Students learn aspects of workshop practice before making and practicing the different joints to be used in their cabinets. Once these skills have been mastered they then develop a design for their own specific cabinet. While about 75% of the course involves practical, hand work the student must understand that an important part of the course involves being in the classroom doing essential design and theory components. The course has been designed to develop eye - hand co-ordination and therefore a minimal amount of the course is done by using machines.

ASSESSMENT

Work for all of the Unit Standards offered is assessed by the teacher, with the results being moderated externally to ensure that those who achieve are of a national standard.

<i>Number</i>	<i>Credits</i>	<i>Title</i>
2216	2	Recognise and confirm job specifications
497	3	Knowledge of workplace health and safety
18917	3	Use basic hand joints in furniture making
18918	6	Construct a basic carcass construction
2199	4	Use and maintain hand tools

COST

A base fee is included in the school fee to cover the costs of wood and other stock items such as adhesives, nails, screws, drills etc. Additional items such as hinges, handles, catches and other special components must be supplied by the student. Students will be supplied with Radiata Pine for their cabinets but are welcome to use other types of timber if they supply it and it is of a suitable standard.

WHERE DOES IT LEAD

Within school: Year 12 Wood Technology

Tertiary: This course will provide a sound foundation for a student who is planning a career that requires good hand-eye co-ordination. Students will be able to progress to Polytechnic courses which have a vocational bias, or alternatively, to go on to other tertiary studies. This course provides students wishing to enter any trade with a sound practical foundation. Students will develop practical knowledge and skills which will benefit them in the future, not necessarily in a career.

FOR FURTHER INFORMATION SEE *Mr Odgers or Mr Densem*

PREREQUISITES It is preferable to have completed a Level 1 Wood Technology course with at least 7 credits, however, if a student shows genuine interest and commitment, he *may*, with the approval of the H.O.D. be able to be accepted into the course.

OUTLINE OF COURSE

This course is similar to the Level 1 Wood Technology course, but at a more advanced level and more emphasis being placed on the use of machinery. Students are expected to show a higher level of creativity, more advanced skills and more independence of learning. Wood Technology is a workshop based course and students are encouraged to develop their own unique designs for both of the pedestal table and the garden bench. Due to machinery restriction there is no specific order which has to be followed when making the projects. Students will work through a series of FITEC (furniture making) Unit Standards, linked to each project which will give them the opportunity to gain credits towards NCEA Level 2. All of these units will be appropriate to the skills expected of the year group and the level of learning expected of students. While the majority of the work will be of a practical nature, students need to understand that a certain amount of theory and design work has to be completed in a classroom setting.

ASSESSMENT

Work for all of the Unit Standards is assessed by the teacher, with the results being moderated externally to ensure that those who achieve are of a national standard.

Number	Credits	Title
14995	2	The use of free hand sketching in furniture making
16231	3	Calculate Lengths, Areas and Percentages
16232	4	The use of power tools in furniture making
2220	4	The use of boring machines in furniture making
20047	4	Hand turn wood to produce furniture articles
25536	3	The use of the band saw to manufacture furniture components

COST

A base fee is included in the school fee to cover consumables such as timber (kwila, macrocarpa and treated radiata pine), adhesives, nails, screws, drill bits. Project specific materials may need to be sourced and purchased by the student individually. Should a student wish to use any other type of timber for his project he is welcome to do so but it is responsible for sourcing and paying for it himself.

WHERE DOES IT LEAD

Within school: Year 13 Wood Technology

Tertiary: This course will provide a sound foundation for a student who is planning a career that requires good hand-eye co-ordination. Students will be able to progress to Polytechnic courses which have a vocational bias, or alternatively, to go on to other tertiary studies. This course provides students wishing to enter any trade with a sound practical foundation. Students will develop practical knowledge and skills which will benefit them in the future, not necessarily in a career.

FOR FURTHER INFORMATION SEE *Mr Odgers or Mr Densem*

PREREQUISITES It is preferable to have completed a Level 2 Wood Technology course with at least 7 credits, however, if a student shows genuine interest and commitment, he may, with the approval of the H.O.D. be able to be accepted into the course.

OUTLINE OF COURSE

This course is similar to the Level 2 Wood Technology course, but at a more advanced level. Students are expected to have a good knowledge of design and construction techniques and should be attempting challenging, well designed projects. Independence and self-motivation are important criteria for success at this level.

Wood Technology is a workshop based course with the majority of time spent doing practical work. Due to reasons beyond the control of OBHS there are only 12 FITEC credits available at this level and the emphasis is mainly on developing practical skills and confidence through the construction of a challenging, major project. While the majority of the work will be of a practical nature, students need to understand that a certain amount of theory and design work has to be completed in a classroom setting. Students at this level are expected to produce usable working drawings and documentation from which to construct their project.

ASSESSMENT

Work for Unit Standards is assessed by the teacher, with the results being moderated externally to ensure that those who achieve are of a national standard.

<i>Number</i>	<i>Credits</i>	<i>Title</i>
14998	3	Construct isometric and oblique drawings
14996	5	Construct working drawings for furniture making
14996	5	Construct working drawings for furniture making

COST

A base fee is included in the school fee to cover consumables such as adhesives, nails, screws, drill bits etc. Due to the variable nature of major projects, material expenses (timber) will be the responsibility of each individual student. If students are unable to source their own timber then it can be sourced for them at their own expense. Project specific materials may need to be sourced and purchased by the student individually.

WHERE DOES IT LEAD

The skills learned are not specific to anyone vocation and can lead to many areas – from apprenticeships to higher vocational and tertiary education. The subject is recommended for any vocation which requires a good level of hand-eye co-ordination.

FOR FURTHER INFORMATION SEE, Mr Odgers or Mr Densem

MEDIA STUDIES**LEVEL 1 (YEAR 11)****OUTLINE OF COURSE**

This is a full year course worth up to 29 credits. It aims to develop the understanding of the media and how media can affect our society. The course examines the content and production of newspapers, television, radio, and film media. It develops critical skills of interpretation and analysis. There is also a practical component where students create their own media product. The production focus at this level is print media.

ASSESSMENT

The course comprises 29 possible credits. Twentyone credits are internally assessed and eight credits are externally assessed.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
1.1	3	Demonstrate understanding of how individuals interact with the media	Internal
1.2	3	Demonstrate understanding of selected elements of media text(s)	Internal
1.3	4	Demonstrate understanding of the media coverage of a current issue or event	External
1.4	4	Demonstrate understanding of characteristics of a media genre	External
1.5	3	Produce a design and plan for a media product using a specified range of conventions	Internal
1.6	6	Complete a media product using a specified range of conventions, from a design and plan	Internal
1.7	3	Demonstrate understanding of rules that govern the media in New Zealand	Internal
1.8	3	Write media texts for a specific target audience	Internal

NOTE: 1 of either 1.2 or 1.8 will **not** be offered

WHERE DOES IT LEAD?

Students may go on to Level 2 Media Studies or go on to Tertiary courses in Media Studies, Journalism, Drama and Production.

FOR FURTHER INFORMATION SEE Mr Gabbusch

12 SPORT STUDIES**LEVEL 2/3 (YEAR 12)****OUTLINE OF COURSE**

This 15 credit course is practically based with an emphasis on player performance by building an environment “off the field” which enhances players’ “on-field” performance. The course will use sport as a context to develop life skills for success.

Specifically the intention is for the students involved to further develop self-discipline, team work, individual responsibility, having exposure to competitive situations, making appropriate lifestyle choices, and to enhance their levels of personal fitness through personal training.

The course will also focus on the social development of the student and the positive effect that exercise can have on their lifestyle and well-being. The students will participate in a range of physical activities related to the fitness systems in their selected sport.

ASSESSMENT PROGRAMME

There will be 4 internally assessed achievement standards worth a total of 15 credits.

<i>Number</i>	<i>Credits</i>	<i>Title</i>	<i>Internal/external</i>
13350	3	Apply knowledge of nutrition to physical activity needs	Internal
12544	3	Apply psychological skills to physical activity	Internal
12528	5	Plan, implement and evaluate a personal exercise program	Internal
12529	4	Develop sport fitness	Internal

WHERE DOES IT LEAD?

Internally into Yr 13 Sport- Externally into the Health and Fitness industry.

FOR FURTHER INFORMATION SEE Mr Martin

PREREQUISITES None**OUTLINE OF COURSE**

This course is practically based with an emphasis on player performance by building an environment “off the field” which enhances players’ “on-field” performance. The course will use sport as a context to develop life skills for success.

Specifically the intention is for the students involved to further develop self-discipline, team work, individual responsibility, having exposure to competitive situations, making appropriate lifestyle choices, and to enhance their levels of personal fitness through personal training.

The course will also focus on the social development of the student and the positive effect that exercise can have on their lifestyle and well-being. The students will participate in a range of physical activities related to the fitness systems in their selected sport.

ASSESSMENT PROGRAMME

Offered on an individual needs basis- Hospitality Course (8 credits – 4 at level 3, 4 at level 2)
First Aid (4 credits – 1 at level 1, 1 at level 2, 2 at level 3)

WHERE DOES IT LEAD?

Externally into the Health and Fitness industry.

FOR FURTHER INFORMATION SEE Mr Martin

VIDEO CONFERENCING**LEVEL 2/3 (YEAR 12/13)**

Video conferencing has been available to offer subjects to Dunedin secondary students whose school may not offer a particular subject or whose timetable does not allow them to take a subject they would like to study because of a time clash.

The student attends a 1 hour lesson each week in their chosen subject at a time that suits their teacher, who may be a member of their own school or who may operate from a remote site. For the other hours, they work independently at school. Internet access is available and they are expected to keep working in school time and at home, submitting work over the internet via a Moodle site to their group teacher.

This option suits motivated, independent workers who can manage themselves.

The list of subjects offered by the DunedinNet at present is:

Te Reo (Level 1)	Classics (Level 2)
Media Studies (Level 3)	Art History (Level 3)
Digital Technology (Level 3)	German (Levels 2 and 3)
Photography (Level 3)	French (Level 3)
Accounting (Level 3)	Electronics (Levels 2 and 3)

We have access to other networks throughout New Zealand and if a subject is not available locally, we may be able to place a student outside. We accept students from beyond our area. Class sizes are always small and individual attention is assured. However, this also means places are limited and students should approach their Dean for the next year as soon as they know that they may need this service.

OUTDOOR EDUCATION**LEVEL 2/3 (YEAR 12/13)**

It is proposed that in 2012 there will be an outdoor education course. It will be based in and around the local Dunedin area as well as trips to the Lodge in the Makukituki. There will be a focus on theory and practical work with an emphasis on Risk management, planning and evaluation of activities. This course will involve extra cost as it will require the use of specialised gear, transport and time away. Activities could include, tramping, rock climbing, abseiling, snow caving and diving. More details will be available in the new year.

MATHS/ENGLISH**LEVEL 1/2 (YEAR 11/12)**

It is proposed that in 2012 there will be a combined English and mathematics course. This would involve students at level 1 and 2 doing Math's for half a year, and then English for the other half. This course is about making sure that all students get the required level of literacy and numeracy to gain their level of qualification but have no intention of continuing in these areas of study