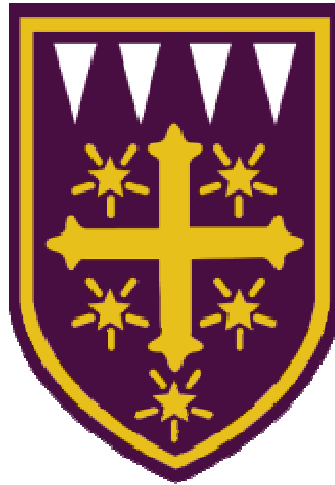


Ōtorohanga College



Honour
Before Honours
Ko te mana
mo mua i te whakamana

SENIOR COURSE BOOKLET FOR 2011

Welcome to the Senior Course Selection Booklet

Decision Time For 2011

What options will I do next year?
What qualifications do I aim for?
What career do I have in mind?



When considering your course for next year there are three main considerations:

What do you need for your future career path?
What are you good at?
What interests you?

More specifically, when choosing courses for next year, you should;

- Consider your strengths and interests in the various areas of study.
- Select courses that are within your capabilities.
- Look at the learning approach in the courses and consider whether it suits your style of learning.
- Consider the requirements for future qualifications and employment.
- Not make choices based on what other students are doing it or what teacher you would like to have.

For course selection help

Use the Computers in the Library or at home to look up career advice web sites like:

www.careerservices.govt.nz

Click on 'School students and leavers' then 'Choosing school subjects'

Or log on to:

www.otocoll.schoolsonline.co.nz

click on 'My Zone' then 'Subjects' then 'Careers'
or click on 'Research Zone' then 'Careers'

Decisions!!!!

In making decisions you should seek help. The choices you make now need to suit your abilities, your goals, and your future. Seek advice from your Dean, Subject Teacher, Careers Advisor, parents or guardians, older brothers and sisters and people in the work place. Never choose a subject because it is what your friends are doing.



"Henry, I'm beginning to think we're on different career paths."

Talk About It!!!

This course selection booklet is designed to help you make choices. For each subject there is an outline of content of the course and any entry requirements. It is possible to undertake study at different levels if the prerequisites for a course have been attained.

Who to see for help in making your course selection

At the College:

You can talk to the following staff;

Careers Advisors; Mr Orsler and Mrs Mora

AND YOUR

Year Level Dean
Vertical Teacher
Class Teacher
Head of Faculty



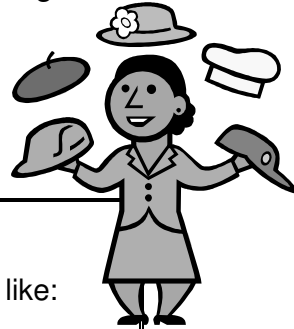
Outside college time:



Talk to your parents

Talk to others in the community who may be involved of, or have knowledge of, the career path you are thinking about

If you have access to the internet look up web sites as suggested.



For course selection help

Use the Computers in the Library or at home to look up career advice web sites like:

www.careerservices.govt.nz

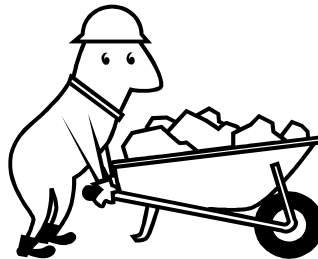
Click on 'School students and leavers' then 'Choosing school subjects'

Or log on to:

www.otocoll.schoolsonline.co.nz

click on 'My Zone' then 'Subjects' then 'Careers'

or click on 'Research Zone' then 'Careers'



If In Doubt, Ask!!!

Make sure that your course is going to enable you to do the things you want to in the future.

Please note:

If there is insufficient demand for a subject, it may not be offered in 2011. Timetable constraints may result in some subject combinations not being available. It may be possible to study some courses through the correspondence school.

It is essential that students spend time and energy in the selection process to ensure that they have a course that is challenging, enriching and within their capabilities. We look forward to assisting students make these important decisions.

Good Luck!!!

Kia Kaha!!!

Considering studying at University???

To qualify for entrance to a New Zealand University you must have:

Level 3: A **minimum** of 42 credits at level 3 or higher on the New Zealand Qualifications Framework (NQF)

These 42 credits may be gathered as follows:

- 14 credits at level 3 or higher in one subject from the approved subject list (see following page) and
- 14 credits at level 3 or higher in another subject from the approved subject list (see following page) and
- 14 credits at level 3 or higher taken from no more than 2 additional subjects.

Level 2: A **minimum** of 8 credits in English or Te Reo Maori at level 2.

These must be made up as follows:

- 4 credits must be in Reading
- 4 credits must be in Writing

The literacy credits must come from a selected schedule of approved standards which can be checked on the NZQA website.

Level 1: A **minimum** of 14 credits in Mathematics or Pangarau on the NQF.

Note:

- These credits can be accumulated over more than one year.
- Credits at a higher level count.
- Credits cannot be counted twice.

Please be aware that these are minimum requirements and in some cases will not guarantee entry to certain courses. Please seek advice if you are unsure of course requirements.



Approved Subjects for University Entrance	
Accounting	Indonesian
Agriculture and Horticulture	Japanese
Biology	Korean
Chemistry	Latin
Chinese	Mathematics with Calculus
Classical Studies	Statistics and Modelling (Maths with Statistics)
Computing	Media Studies
Cook Islands Maori	Music
Dance	Painting (Practical Art)
Design (Practical Art)	Photography (Practical Art)
Drama	Physical Education
Economics	Physics
English	Printmaking (Practical Art)
French	Samoan
Geography	Science
German	Sculpture (Practical Art)
Graphics	Spanish
Health Education	Social Studies
History	Technology
History of Art	Te Reo Rangatira or Te Reo Māori



What is NCEA ?

Year 11, 12, 13 students work towards the qualification called the NCEA, which stands for the National Certificate of Educational Achievement.

There are three levels:

- Level 1 NCEA
- Level 2 NCEA
- Level 3 NCEA

Gaining the National Certificate Educational Achievement

To gain the NCEA at each level a student needs 80 credits.

The 80 credits are spread over all senior courses (subjects).

Level One NCEA requires:	80 credits of which 10 must be for numeracy and 10 for literacy
Level Two NCEA requires:	80 credits of which 60 must be at level two
Level Three NCEA requires:	80 credits of which 60 must be at level three.

Course endorsement in 2011

Students will be able to have their strengths in individual courses recognised with a course endorsement at Merit or Excellence.

Students will gain an endorsement for a course where they achieve:

- (1) 14 or more credits at Merit or Excellence at the lower level that supports the endorsement
- (2) at least 3 credits from externally assessed standards and 3 credits from internally assessed standards

Note: Physical Education, Religious Studies and level 3 Visual Arts will be exempt from (2) above.

How do you enter for NCEA?

School will enter you for NCEA and tell you when to finalise your entries and when your fees are due. (\$75 each year)

You have a unique National Student Number (NSN) to look up information from NZQA. For more information see **Mrs Russell** or www.nzqa.govt.nz or phone 0800 697 296.

This table shows how subjects progress at Ōtorohanga College

YEAR 9	YEAR 10	YEAR 11	YEAR 12	YEAR 13
English *	English *	English *	English *	English
Mathematics*	Mathematics*	Mathematics*	Mathematics	Calculus Statistics & Modelling
Science *	Science *	Science	Biology Chemistry Physics Science	Biology Chemistry Physics
Social Studies *	Social Studies *	Geography History	Geography History Tourism Media Studies	Geography History Tourism
	Business Studies+	Accounting Economics Business Studies	Accounting Economics	Accounting Economics Young Enterprise
Physical Education & Health*	Physical Education & Health*	Physical Education & Health*	Physical Education or Physical Education & Health	Physical Education Health
Arts / Language Rotation*	Te Reo Māori	Te Reo Māori	Te Reo Māori	Te Reo Māori
Te Reo Māori Info. Literacy Art Music Drama	Art + Music + Drama +	Art Music	Art Music	Art Music
Technology Rotation*	Design Technology + (Wood or Metal)	Design Technology + (Wood or Metal)	Design Technology	Design Technology
Hard Materials Thinking Skills Food Technology Soft Materials Graphics	Graphics	Graphics	Graphics	Graphics
	Food Technology+	Food & Nutrition	Hospitality & Catering	Hospitality & Catering
	Fabric Technology+ Computing +	Fabric Technology	Fabric Technology Computing	Fabric Technology Computing
			Employment Skills	Employment Skills

* Compulsary

+ Half Year Option

NB If there are insufficient numbers opting for a course it may not be offered in any one year.

Who to see for subject advice

The Arts <i>Nga Toi</i>		HOF Mrs Raine
12	Art	Mr Grey
32-33	Music	Mrs Raine
34	Photography	Mr Grey

Health & Physical Well-being <i>Hauoroa</i>		HOF Mr Parsons
27	Health	Mrs Russell
35-36	Physical Education	Mr Parsons
36-37	Physical Education & Health	Mr Parsons

Languages <i>Te Korero me Nga Reo</i>		HOF Mrs Kurth
20-22	English	Mrs Kurth
40-42	Te Reo Māori	Ms Mita

Mathematics <i>Pangarau</i>		HOF Mr Cowan
11	Accounting	Mr Hockly
14	Calculus	Mr Cowan
30-31	Mathematics	Mr Cowan
40	Statistics and Modelling	Mr Cowan

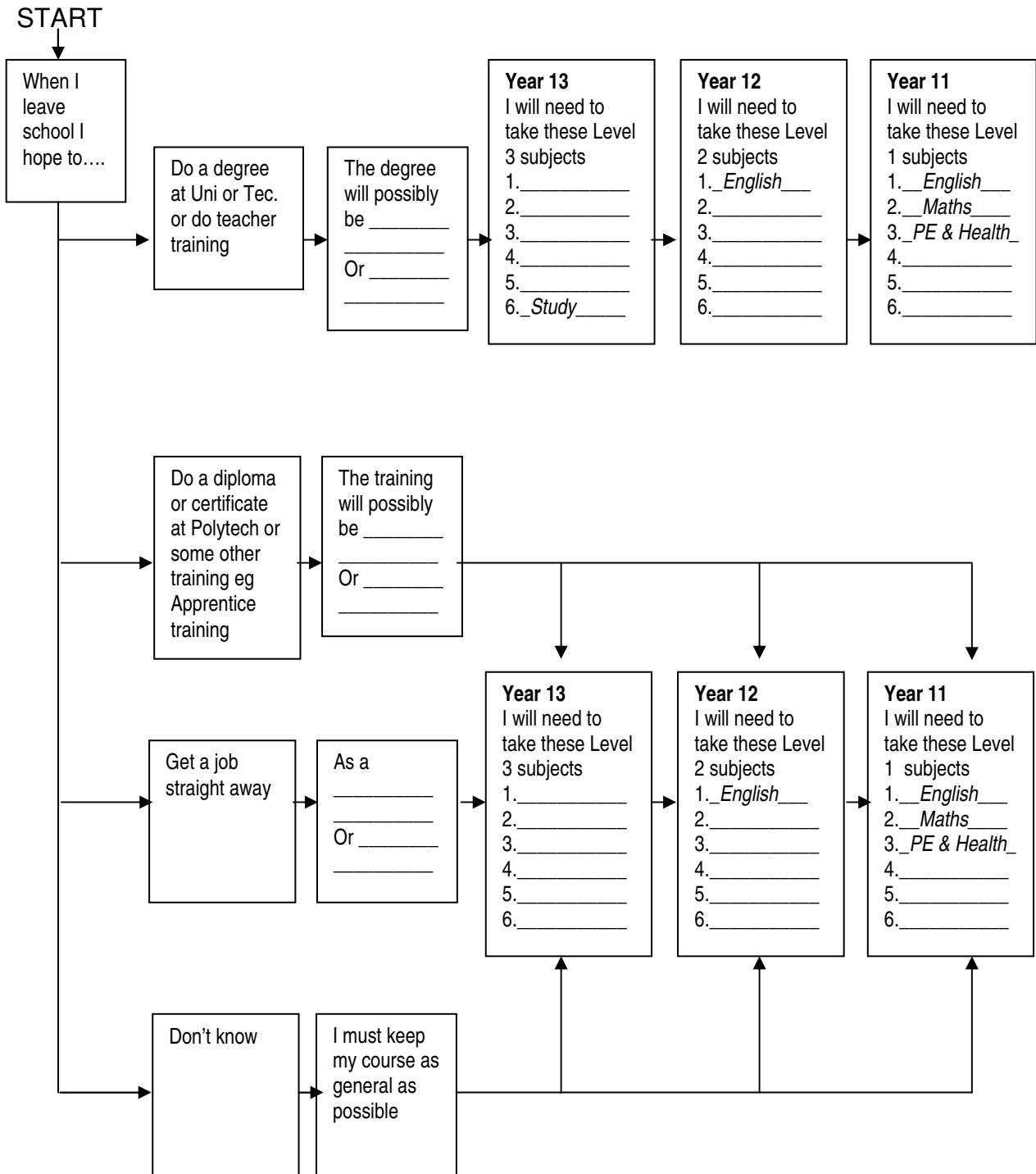
Science <i>Putaiiao</i>		HOF Mr Burt
13	Biology	Mr Burt
15	Chemistry	Mrs Pemberton
37-38	Physics	Mr Burt
38-39	Science	Mr Burt

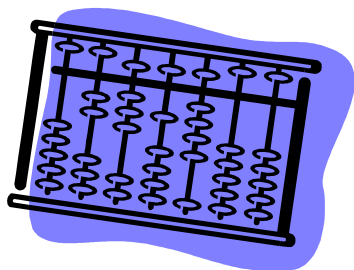
Social Sciences <i>Tikanga - a - iwi</i>		HOF Ms Grantham
14	Business Studies	Mr Hockly
19	Economics	Mr Hockly
24-25	Geography	Ms Mackenzie
28-29	History	Ms Grantham
31	Media Studies	Ms Grantham
42	Tourism	Ms Grantham

Technology <i>Hangarau</i>		HOF Mrs Jacobson
16	Computing	Mr Hockly
16-18	Design Technology	Mr Chetty
23	Fabric and Food Technology	Mrs Jacobson
26-27	Graphics	Mr Chetty
29	Hospitality	Mrs Jacobson

FUTURE PATHWAYS PLANNING SHEET

Use this sheet to assist you in selecting your courses for next year.





ACCOUNTING

Teacher in charge: Mr Hockly

Students who take Accounting will develop the knowledge, skills and attitudes which will enable them to:

- Be better managers of their resources and financial affairs
- Understand how business works
- Be efficient contributors to our modern business community

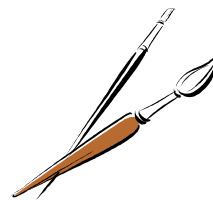
Title	Accounting (ACC101)
Level	Level 1 NCEA
Entry Requirements	Suitable for any student doing MAE101 or MAE102
Assessment	Internal and External Achievement Standards. Approximately 20 Credits.
Course endorsement available	Yes
Approximate fees / costs	Study/Workbooks - \$20 (max)
Course Outline	A basic outline of Accounting practice including Source Documents, Journals, Ledgers, Trial Balance, Profit & Loss Statements and Balance Sheets.

Title	Accounting (ACC201)
Level	Level 2 NCEA
Entry Requirements	Completed Level 1 Accounting or HOD discretion
Assessment	Internal and External Achievement Standards. Approximately 20 Credits.
Course endorsement available	Yes
Approximate fees / costs	Study/Workbooks - \$20 (max)
Course Outline	Further development of Accounting Practice including using common software for businesses

Title	Accounting (ACC301)
Level	Level 3 NCEA
Entry Requirements	Completed Level 2 Accounting
Assessment	Internal and External Achievement Standards. Approximately 20 Credits.
Course endorsement available	Yes
Approximate fees / costs	Study/Workbooks - \$20 (max)
Course Outline	A preparatory course for University study in Accounting or Business

**ART**

Teacher in charge: Mr Grey



Our aim is to give students the opportunity to experience the world around us through the visual arts by gaining skills that will enable them to communicate their ideas, perceptions and observations confidently through various art media.

Title	Art (ART101)
Level	Level 1 NCEA
Entry Requirements	A successful Year 10 Art course
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees/costs	\$50.00
Course Outline	This course will introduce students to the NCEA programme, and is designed to extend student's knowledge of art making practices from earlier course work. The course covers the disciplines of Painting and Printmaking. It involves the interpretation of Art works, theory, drawing methods, the study of cultural conventions and the production of original work in the form of a folio.

Title	Art (ART201)
Level	Level 2 NCEA
Entry Requirements	A successful level 1 Art course (12 or more credits)
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees/costs	\$50.00 (\$35.00 without clearfile)
Course Outline	This course covers the disciplines of Painting and Printmaking. It involves research, theory, generating and developing ideas and the production of original work in the form of a folio.

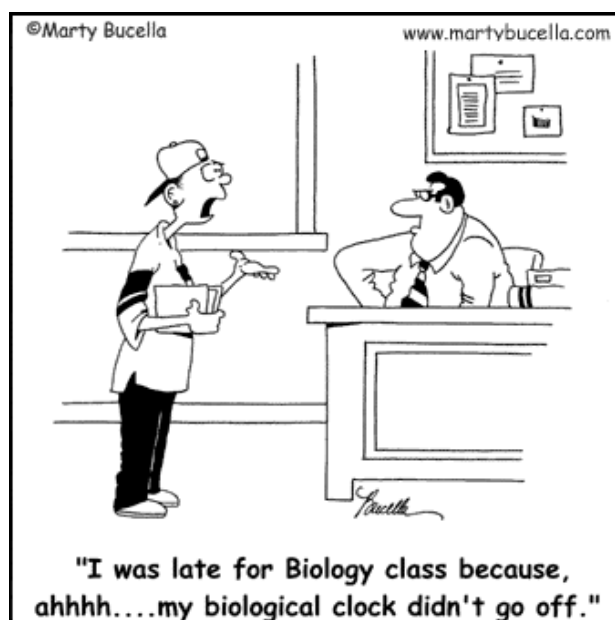
Title	Art (ART301)
Level	Level 3 NCEA
Entry Requirements	A successful Level 2 Art course (12 or more credits)
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees/costs	\$55.00
Course Outline	The Level 3 course covers the disciplines of Painting and Printmaking. It involves research and analysis, theory, investigating and using ideas and methods, and the production of original work in the form of a folio.

BIOLOGY

Teacher in charge: Mr Burt

Title	Biology (BIO201)
Level	Level 2 NCEA
Entry Requirements	Successful completion of Level 1 Science with a minimum of 14 credits including one external Achievement Standard or at the discretion of the HOF
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees/costs	None
Course Outline	(i) Planning, processing, interpreting and communicating scientific information. (ii) Ecology – organisms and their environment (iii) Cell structure and processes (iv) Plant and Animal processes (v) Biological issues (vi) Biological applications

Title	Biology (BIO301)
Level	Level 3 NCEA
Entry Requirements	Successful completion of Level 2 Biology with a minimum of 14 credits including one external Achievement Standard or at the discretion of the HOF.
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees/costs	None
Course Outline	(i) Planning, processing, interpreting and communicating scientific information. (ii) Trends in human evolution (iii) Biotechnology (iv) Biological issues (v) Ecological niche of plants and animals (vi) Plant responses and animal behaviour



BUSINESS STUDIES

Teacher in charge: Mr Hockly

Title	Business (BUS101)
Level	Level 1 NCEA
Entry Requirements	Suitable for any student interested in the world of Business
Assessment	Internal Achievement Standards. A mix of Internal Achievement Standards from Business, Economic & Accounting. Approximately 20 Credits.
Course endorsement available	No
Approximate fees/costs	\$20 investment (max) in your own business
Course Outline	Students will have the opportunity to run their own small business as well as have a brief look at Economics and Accounting.

CALCULUS

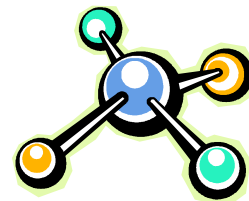
Teacher in charge: Mr Cowan



Title	Calculus (MAC301)
Level	Level 3 NCEA
Entry Requirements	Students must have attained at least Merit in the following Achievement Standards; Manipulate algebraic expressions and solve equations, Draw straightforward non-linear graphs, Use co-ordinate geometry methods, Find and use straightforward derivatives and integrals, Demonstrate Calculus Skills; or at the discretion of the HOF in consultation with the teacher.
Assessment	A mixture of both Internal Unit Standards and External Achievement Standards.
Course endorsement available	Yes
Approximate fees / costs	There is the requirement of purchasing a specific write on work book for this course, approx \$25.95 (based on 2010 prices). Additionally there is a strong recommendation to purchase the revision book later in the year at the cost of \$17.00 (based on 2010 prices)
Course Outline	This is a full academic Level Three Calculus course which is the pre requisite for many University courses. The course will be covering a variety of topics such as; using derivatives to solve problems, integrals and numerical methods, modelling using differential equations, solving equations with real and complex numbers, graphs and equations of conic sections and solving equations of trigonometric functions.

CHEMISTRY

Teacher in charge: Mrs Pemberton



This course is preparing students for further study in the physical sciences and related occupations.

Title	Chemistry (CHE201)
Level	Level 2 NCEA
Entry Requirements	18 credits in Level 1 Science (SCE101) or at discretion of HOF
Assessment	There are 7 Achievement Standards available. These are a mix of internally set and marked investigations, practicals and assignments that are moderated and externally set and marked examinations at the end of the academic year. Maximum of 24 credits available.
Course endorsement available	Yes
Approximate fees/costs	Nil
Course Outline	The course covers the following areas; <ul style="list-style-type: none"> • Atomic Structure and Bonding • Organic Chemistry • Physical Chemistry • Redox reactions • Qualitative and Quantitative Chemistry

Title	Chemistry (CHE301)
Level	Level 3 NCEA
Entry Requirements	17 credits in Level 2 Chemistry (CHE201) or at discretion of HOF
Assessment	Two internal practical Achievement Standards and five external Achievement Standards examined in a 3 hour exam in November. Maximum of 24 credits available.
Course endorsement available	Yes
Approximate fees/costs	Nil
Course Outline	Oxidation & Reduction, properties of atoms (including radioactivity), molecules and ions, organic molecules and reactions, thermochemistry



COMPUTING

Teacher in charge: Mr Hockly

The Computing Department offers courses to enable students to become confident in using computers in a wide range of situations. The computing skills learn provide skills that can be used in most businesses and provide a base for further education in Computing.

Title	Computing (COM201)
Level	Level 2 NCEA
Entry Requirements	Nil
Assessment	A mixture of both internal Unit Standards and external Achievement Standards.
Course endorsement available	No
Approximate fees/costs	\$20
Course Outline	The course introduces the use of Microsoft Word, Access Database Spreadsheets, Publisher and Power Point.

Title	Computing (COM301)
Level	Level 3 NCEA
Entry Requirements	Nil
Assessment	A mixture of both internal Unit Standards and external Achievement Standards.
Course endorsement available	No
Approximate fees/costs	\$20
Course Outline	This course builds on from the Level 2 Computing course to focus on more advanced features of Microsoft Word, Access Database Spreadsheets, Publisher and Power Point.

DESIGN TECHNOLOGY

Teacher in charge: Mr Chetty



What is technology about?

People use technology to expand their possibilities, intervening in the world through the development of products, systems, and environments. To do this, they apply available intellectual and practical resources. Technology is continually changing. It is influenced by and in turn impacts upon the cultural, ethical, environmental, political, and economic factors of the day, both local and global.

Why study technology?

The aim is for students to develop a broad technological literacy that will equip them to participate in society as informed citizens. To develop such literacy, students need to experience and explore a wide range of technologies in a variety of contexts. These include control, food, communications, structural, dynamic, and bio-related technologies, along with creative design processes and materials.

Technology education connects students with a range of employment opportunities, particularly those which are enterprising and innovative by nature.

Technology gives opportunities to enhance technology education in New Zealand schools. It can provide opportunities for students to:

- Engage as informed consumers in and users of the technological world around them.
- Engage in a broad range of meaningful technological practices that show how people intervene by purposeful design in the world we live in to develop products and services.
- Consider meaningful career choices or higher education for enterprising and innovative work.
- Help students to gain knowledge and skills that might prepare them for trade apprenticeships, service professions and for possible careers across a range of technology-related industries

A high level of responsibility is required from all students wishing to enter the Department. With good application students will achieve skills and knowledge that will be of advantage to them for the rest of their lives.

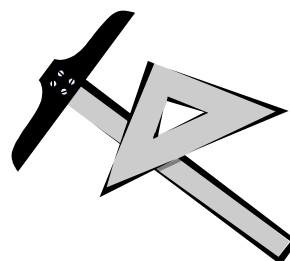
The department offers Wood and Metal Technology to students. Students must have demonstrated a high level of achievement in Year 10 Material Technology to be considered for enrolment at this level. A perfect past safety record is also vital. Unit Standards in Engineering and Furniture and Achievements Standards are attempted at this level. Two Achievement Standards are compulsory at this level. Students are given the choice to select, design and construct the projects.

Title	Design Technology Metal (DTM101)
Level	Level 1 NCEA
Entry Requirements	Satisfactory completion of Year 10 Design Technology Metal in consultation with the HOD. This course cannot be taken with DTW101
Assessment	Internal and External Achievement Standards.
Course endorsement	Yes
Approximate fees/costs	\$50 which covers the resources for practicals and theory.
Course Outline	This course covers theory and practical lessons based on Technology Practice, Technology Knowledge and Nature of Technology.

Title	Design Technology Wood (DTW101)
Level	Level 1 NCEA
Entry Requirements	Satisfactory completion of Year 10 Design Technology Wood in consultation with the HOD. This course cannot be taken with DTM101.
Assessment	Unit Standards (FITEC), Internal and External Achievement Standards.
Course endorsement	Yes
Approximate fees/costs	\$50 which covers the resources for practicals and theory.
Course Outline	This course covers theory and practical lessons based on Technology Practice, Technology Knowledge and Nature of Technology. Students will learn practical skills as they develop models, products and systems.

Title	Design Technology (DES201)
Level	Level 2 NCEA
Entry Requirements	At least 14 credits at Level 1 Design Technology (DTW101 or DTM101) including Unit Standard 497
Assessment	Unit Standards (FITEC), Internal and External Achievement Standards.
Course endorsement	Yes
Approximate fees/costs	\$50 which covers the resources for practicals and theory.
Course Outline	This course covers theory and practical lessons based on Technology Practice, Technology Knowledge and Nature of Technology. Students will learn practical skills as they develop models, products and systems.

Title	Design Technology (DES301)
Level	Level 3 NCEA
Entry Requirements	At least 14 credits at Level 2 Design Technology DES(201) including Unit Standard 497
Assessment	Unit Standards (FITEC), Internal and External Achievement Standards.
Course endorsement	Yes
Approximate fees/costs	\$50 which covers the resources for practicals and theory.
Course Outline	This course covers theory and practical lessons based on Technology Practice, Technology Knowledge and Nature of Technology. Students will learn practical skills as they develop models, products and systems.



ECONOMICS

Teacher in charge: Mr Hockly



Students who take the subjects offered by the Department will develop the knowledge, skills and attitudes which will enable them to:

- Be better managers of their resources and financial affairs
- Understand how the world business works
- Understand the complexities of the New Zealand economy, the role the Government plays in the economic development of New Zealand
- Have relevant skills and understanding for the world of work or further academic study
- Attempt a Business Degree at Polytech or University

Title	Economics (ECO101)
Level	Level 1 NCEA
Entry Requirements	Suitable for any student doing either or both ENG101 and MAT101
Assessment	Internal and External Achievement Standards. Approximately 20 credits available
Course endorsement	Yes
Approximate fees/costs	Purchase of Workbook - \$20 (max) \$22.00
Course Outline	An investigation into Consumers and Producers in the New Zealand Economy. What motivates people to buy and produce goods and services.

Title	Economics (ECO201)
Level	Level 2 NCEA
Entry Requirements	Suitable for any student who has completed NCEA Level 1
Assessment	Internal and External Achievement Standards. Approximately 20 credits
Course endorsement	Yes
Approximate fees/costs	Purchase of Workbook - \$20 (max) \$22.00
Course Outline	A deeper look at the New Zealand economy with the topics of Inflation, Trade, Employment and Economic Growth

Title	Economics (ECO301)
Level	Level 3 NCEA
Entry Requirements	Suitable for any student who has completed NCEA Level 2
Assessment	Internal and External Achievement Standards. Approximately 20 credits
Course endorsement	Yes
Approximate fees/costs	Purchase of Workbook - \$20 (max) \$22.00
Course Outline	A preparation for University Micro and Macro Economics. Marginal Utility Theory, Theory of The Firm, The Aggregate Economy etc. Suitable for any considering any aspect of a Business Degree

ENGLISH

Teacher in Charge: Mrs Kurth

The development of our language skills continues throughout our lives. Language is not only used for communication, but can enrich our lives through reading about the experiences of others. English not only teaches us to write accurately and communicate clearly, it also teaches us to value and respect others. The English courses at Otorohanga College focus on two key areas: the study of language and literacy skills and the study of texts.

Senior English

- All Year 11 English programmes contribute to the achievement of Level 1 NCEA and offer the opportunity to achieve the literacy requirement of NCEA Level 1.
- There is no literacy requirement at Level 2, however, students who wish to attend university are advised that this is the level at which they should attempt to gain the English requirements for entrance to university. If students who are considering tertiary education do not gain University Entrance English in Year 12 it is recommended that they focus on gaining the required credits through the Year 12 course the following year. The requirement for the English component of University Entrance is four reading credits and four writing credits at Level 2 or higher.
- Year 13 English requires proven competence at Level 2. Students will engage in a range of language and literary studies. The analytical and critical thinking skills students develop at this level will be of great benefit, even if they do not intend continuing the study of English at tertiary level.

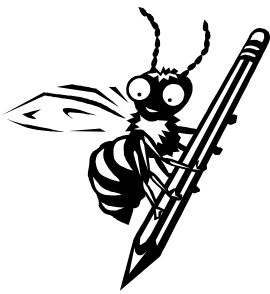
Course Placement


There is a clear progression from Year 11 to Year 13 with a range of courses offered to suit the needs of our students. When considering where to place students our priority is to enable students to achieve success. Consultation with the HOF, Deans, Senior Management and parents will occur where necessary.

Title	English (ENG101)
Level	Level 1 NCEA
Entry Requirements	Based on asTTle results, Year 10 Assessments and HOF discretion
Assessment	External and Internal Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Nil
Course Outline	External Achievement Standards <ul style="list-style-type: none"> • short stories and poems • feature film • close reading of unfamiliar text Internal Achievement Standards <ul style="list-style-type: none"> • creative writing • create a visual text • research

Title	English (ENG102)
Level	Level 1 NCEA
Entry Requirements	Based on asTTle results, Year 10 Assessments and HOF discretion
Assessment	External and Internal Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Nil
Course Outline	<p>External Achievement Standard</p> <ul style="list-style-type: none"> • short stories and poems <p>Internal Achievement Standards</p> <ul style="list-style-type: none"> • create a visual text • close reading of written and visual text • research

Title	English (ENG103)
Level	Level 1 NCEA
Entry Requirements	Based on asTTle results, Year 10 Assessments and HOF discretion
Assessment	Internal Unit Standards
Course endorsement available	No
Approximate fees / costs	Nil
Course Outline	<p>Internal Unit Standards</p> <ul style="list-style-type: none"> • This course covers skills in reading, writing, viewing and presenting.

Title	English (ENG201)
Level	Level 2 NCEA
Entry Requirements	Completion of ENG101 with at least 12 credits
Assessment	External and Internal Achievement Standards with a maximum of 24 credits available
Course endorsement available	Yes
Approximate fees / costs	Nil
Course Outline 	<p>External Achievement Standards</p> <ul style="list-style-type: none"> • Extended written text • short text • feature film • close reading of unfamiliar text <p>Internal Achievement Standards</p> <ul style="list-style-type: none"> • creative writing • formal writing • deliver a speech • language or literature research

Title	English (ENG202)
Level	NCEA Level 2
Entry Requirements	Completion of ENG102 or ENG103 with at least 12 credits
Assessment	Internal Achievement Standard and Unit Standards with a maximum 16 credits available
Course endorsement available	No
Approximate fees / costs	Nil
Course Outline	 <p>Achievement Standard</p> <ul style="list-style-type: none"> language or literature research <p>Unit Standards</p> <ul style="list-style-type: none"> read and respond to a range of texts that relate to a chosen theme close reading of static images close viewing of moving images presenting static images

Title	English (ENG301)
Level	NCEA Level 3
Entry Requirements	Completion of ENG201 with at least 12 credits
Assessment	External and Internal Achievement Standards with maximum of 24 credits available
Course endorsement available	Yes
Approximate fees / costs	Nil
Course Outline	<p>External Achievement Standards</p> <ul style="list-style-type: none"> written text Shakespearean text feature film close reading of unfamiliar text <p>Internal Achievement Standards</p> <ul style="list-style-type: none"> creative writing oral presentation language or literature research



Rapua te ara tika mou ake
Seek the path that is right for you

The poutama relates to the staircasing of life knowledge, higher learning and achievement. The koru depicts the individual's personal growth and development. The figure represents both male and female.

FABRIC, FOOD & LIFE SKILLS

Teacher in charge: Mrs Jacobson

Title	Fabrics, Food and Life skills (FFL101)
Level	Level 1
Entry Requirements	Discussion with teacher – numbers limited
Assessment	Unit Standards
Course endorsement available	No
Approximate fees / costs	Fee to be discussed. Fabrics to be purchased by student.
Course Outline	A mixed course involving Fabrics and Food. This will be practical orientated and have a maximum of 10 credits offered.



FABRIC TECHNOLOGY

Teacher in charge: Mrs Jacobson

Title	Fabric Technology (TFA101)
Level	Level 1 and Level 2 NCEA
Entry Requirements	Basic skills required
Assessment	Unit Standards
Course endorsement available	No
Approximate fees / costs	Students will be required to purchase their own materials for the course.
Course Outline	Students will develop knowledge to create textile items and garments. A large component is practical work.



FOOD & NUTRITION

Teacher in charge: Mrs Jacobson

Title	Food and Nutrition (FNU101)
Level	Level 1 NCEA
Entry Requirements	Nil
Assessment	Achievement Standards – Internal and External
Course endorsement available	Yes
Approximate fees / costs	\$30-00
Course Outline	Students will develop skills and knowledge in safe, efficient food preparation and meal planning. The course consists of 50% practical experiences and 50% written work.

GEOGRAPHY

Teacher in Charge: Ms Mackenzie

The main aim of Geography is to understand the ENVIRONMENT as the home of people. Geographers do this by accounting for all the factors that make up the cultural and natural environment and then seeing how they interact.

Geography allows you to enquire into the world you live in by developing SKILLS in the decision making process. At all levels of the programme emphasis on learning and developing these basic skills are included:

- **Thinking skills** – data gathering, comprehension, processing and evaluation, including major skills used in research.
- **Practical skills** – field work, mapping, using and interpreting models, writing, measurement and calculation.
- **Social and valuing skills.**

Geography can be picked up at any level without having studied the previous year's course. At all levels in Geography some part of the course is internally assessed. An important component of Geography is field-work Students will be expected to attend the fieldtrips relevant to their course. Although there are few jobs entitled GEOGRAPHER, employers like Geography students because they have a good understanding of the world around them. People who are able to make complex decisions using the above skills are required for a wide variety of occupations. Geography will help you in the following careers:

Tourist Officer	Surveyor	Geologist	Landscape Gardener
Forest Ranger	Journalist	Cartographer	Market Researcher
Land Agent	Diplomat	Teacher	GIS Computer Systems
Farmer	Ecologist	Oceanographer	Aerial Photographer
Export Agent	Mining	Business Manager	Local Government
Meteorologist	Town Planner	Climatologist	

Title	Geography (GEO101)
Level	Level 1 NCEA
Entry Requirements	Nil
Assessment	Internal and External Achievement Standards
Course endorsement	Yes
Approximate fees / costs	Purchase of 1.4 Workbook – about \$22.00
Course Outline	<p>Topics to be studied include:</p> <ul style="list-style-type: none"> • Extreme Natural Events - Flooding. • Population Studies. • Resources and Their Uses – NZ Farming and the mining of Uranium in Australia. • Contemporary Geographic Issues, • Geographic Research • Global Studies

Title	Geography (GEO201)
Level	Level 2 NCEA
Entry Requirements	10 credits or greater in NCEA Level 1 Geography or English or at the discretion of the HOF.
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Purchase of 2.4 Workbook – about \$22.00
Course Outline	<p>Topics to be studied may include:</p> <ul style="list-style-type: none"> • Natural Landscapes – Amazon and Central Volcanic Plateau. • Urban Studies – Auckland • Disparities in Development – Global Setting • Current Geographic Issues, • Geographic Research • Global Studies.

Title	Geography (GEO301)
Level	Level 3 NCEA
Entry Requirements	10 credits or greater in NCEA Level 2 Geography or English or at the discretion of the HOF.
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Purchase of 3.4 Workbook – about \$22.00
Course Outline	<p>Topics to be studied include:</p> <ul style="list-style-type: none"> • Natural Processes – A Volcanic Environment: Tongariro National Park • Cultural processes – Tourism. Focus on Rotorua, NZ and Bali. • Geographic Research • Global Studies • Current Geographic issues.



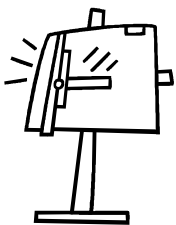
GRAPHICS

Teacher in charge: Mr Chetty

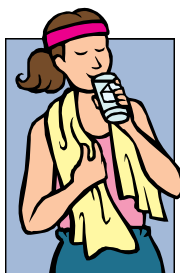
The aims of Graphic education are:

- To promote in students the development of enquiry and discrimination skills and encourage initiative, ingenuity and resourcefulness through activities based on real situations in graphic communication.
- To provide a variety of design and drawing experiences that are challenging, creative, useful, and enjoyable and that draw upon student's interests and cultural backgrounds.
- To plan and implement graphics programmes that will promote awareness and understanding of technologies, of their application and of economic and environmental issues and that will encourage the exercising of aesthetic values.
- To stimulate self-confidence, self-esteem, and a pride in achievement through enabling all students to achieve personal success in this subject.

Title	Graphics (GRA101)
Level	Level 1 NCEA
Entry Requirements	Satisfactory completion of Year 10 Graphics in consultation with subject teacher and the HOD.
Assessment	Internal and External Achievement Standards.
Course endorsement	Yes
Approximate fees / costs	Nil
Course Outline	This course provides a variety of design and drawing experiences (2D and 3D) that are challenging, creative, useful and enjoyable and that draw upon the student's interests and cultural backgrounds.

Title	Graphics (GRA201)
Level	Level 2 NCEA
Entry Requirements	Attainment of 14 credits in Level 1 Graphics (GRA101)
Assessment	Internal and External Achievement Standards.
Course endorsement	Yes
Approximate fees / costs	Nil
Course Outline 	This course includes the following focus points; <ul style="list-style-type: none"> • Client interaction – using a local enterprise as the client for whole class activity • Developing graphics skills within technological practice • Functional modelling – using mock-ups to explain and test design ideas

Title	Graphics (GRA301)
Level	Level 3 NCEA
Entry Requirements	Attainment of 14 credits in Level 2 Graphics (GRA201)
Assessment	Internal and External Achievement Standards.
Course endorsement	Yes
Approximate fees / costs	Nil
Course Outline	<p>This course includes the following focus points;</p> <ul style="list-style-type: none"> • Client interaction – using a local enterprise as the client for whole class activity • Developing graphics skills within technological practice • Functional modelling – using mock-ups to explain and test design ideas



HEALTH

Teacher in charge: Mrs Russell

The Health Course is aimed at preparing students for university or further study in the topic area. In Health you look at a range of issues within New Zealand and internationally. The course has a combination of achievement standards and unit standards.

Title	Health (HEA301)
Level	Level 3 NCEA
Entry Requirements	Successful completion of PHE201 with a minimum of 14 credits.
Assessment	Internal Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Nil
Course Outline	<ul style="list-style-type: none"> • Health Issue Within New Zealand Society • Analyse an International Health Issue • Contemporary Ethical Dilemmas that Influence Health and Well-Being. • Social Construction of Body Image and the Impact on Well-Being. • Societal Issues Related to Alcohol.

HISTORY

Teacher in charge: Ms Grantham

History can be picked up at both Level 2 and 3 without having been studied beforehand. History develops the skills of research, processing and communication. It uses a range of resources such as photographs, maps, cartoons, documents and texts. History will teach you how to plan and write logically.

History will help you in the following careers:

Journalist	Publisher	Antique Dealer	Archivist
Diplomat	Lawyer	Town Planner	Dramatist
Architect	Police Detective	Art Conservator	Librarian
Museum Curator	Anthropologist	Customs Officer	

Title	History (HIS101)
Level	Level 1 NCEA
Entry Requirements	Nil
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Field trip approx: \$25.00
Course Outline	Topics to be studied include: <ul style="list-style-type: none"> • Crime and Punishment • Black Civil Rights • We protest! -

Title	History (HIS201)
Level	Level 2 NCEA
Entry Requirements	10 credits or greater in NCEA Level 1 History or English or at the discretion of the Head of Department.
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Field trip approx: \$30.00
Course Outline	Topics to be studied may include: <ul style="list-style-type: none"> • Weimar and Nazi Germany • Conflict in Indo-China • Case Study: New Zealand Identity



Title	History (HIS301)
Level	Level 3 NCEA
Entry Requirements	10 credits or greater in NCEA Level 2 History or English or at the discretion of the Head of Faculty
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Purchase of Workbook – about \$22.00 Field trip approx: \$30.00
Course Outline	Externally assessed Achievement Standards will be based on New Zealand in the 19 th Century

HOSPITALITY

Teacher in Charge: Mrs Jacobson



Title	Hospitality (HOS201)
Level	Level 2 NCEA
Entry Requirements	Level 1 NCEA or teacher discretion.
Assessment	Unit Standards – Industry based
Course endorsement available	No
Approximate fees / costs	\$40-00
Course Outline	Students may work towards gaining a variety of Certificates of Achievement in Cookery Level 2. A minimum of 18 credits will be offered.

Title	Hospitality (HOS301)
Level	Level 3 NCEA
Entry Requirements	Level 2 NCEA or teacher discretion
Assessment	Unit Standards
Course endorsement available	No
Approximate fees / costs	\$40-00
Course Outline	Catering and hospitality type Unit Standards will be offered from the Home Economics matrix will be offered. Students will also have the opportunity to complete a Barista course.

MATHEMATICS

Teacher in charge: Mr Cowan



Title	Mathematics (MAT101)
Level	Level 1 NCEA
Entry Requirements	Ability to work and operate at Curriculum Level Five or above
Assessment	External and Internal Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Students need to purchase a write on work book approximately \$25.95 (based on 2010 prices)
Course Outline	This course will cover a wide range of topics including Number, Measurement, Algebra, Geometry, Trigonometry, Graphs, Probability and Statistics. Students will work to gain Level One numeracy through the Achievement Standards package. This course is the prerequisite for study of Mathematics at Level 2.

Title	Mathematics (MAT102)
Level	Level 1 NCEA
Entry Requirements	Interview with current teacher and Head of Faculty
Assessment	External and Internal Achievement Standards
Course endorsement available	No
Approximate fees / costs	Students need to purchase a write on work book for the Achievement Standards component of this course. Approx \$25.95 (based on 2010 prices)
Course Outline	This course is a combination of Unit and Achievement Standards. Students will initially work on completing the 10 numeracy credits required for NCEA Level 1 by working through the Unit Standard numeracy package.

Title	Mathematics (MAT103)
Level	Level 1 NCEA
Entry Requirements	Interview with current teacher and Head of Faculty
Assessment	Internal
Course endorsement available	No
Approximate fees / costs	Purchase of 1J8 Exercise Books
Course Outline	This course aims to have students complete the required 10 numeracy credits for NCEA Level 1 by working through the Unit Standard numeracy package.

Title	Mathematics (MAT201)
Level	Level 2 NCEA
Entry Requirements	Students must have attained merit or better in the following Achievement Standards or at the discretion of the Head of Faculty in consultation with the Teacher. Use straightforward algebraic methods and solve equations. Sketch and interpret graphs.
Assessment	A mixture of both internal Unit Standards and external Achievement Standards.
Course endorsement available	Yes
Approximate fees / costs	There is the requirement of purchasing a specific write on work book for this course. Approx \$25.95 (based on 2010 prices). With a strong recommendation of the revision book later in the year at the cost of \$17.00 (based on 2010 prices)
Course Outline	This course covers a variety of topics including; Trigonometry, Calculus, Graphs, .Sequences, Probability, Algebra. This course is the prerequisite for study of Mathematics at Level 3.

Title	Mathematics (MAT202)
Level	Level 1 and Level 2 NCEA
Entry Requirements	Interview with current teacher and Head of Faculty
Assessment	Internal Standards
Course endorsement available	No
Approximate fees / costs	Nil
Course Outline	This is a course made up of a mixture of Level One and Level Two Unit Standards for those students who need to gain additional mathematical credits.

MEDIA STUDIES

Teacher in charge: Ms Grantham

Title	Media Studies (MED201)
Level	Level 2 NCEA
Entry Requirements	10 credits or greater in NCEA Level 1 History, Geography or English or at the discretion of the Head of Faculty
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Purchase of Workbook – about \$22.00 Class Trip approx: \$30.00
Course Outline	A range of topics will be examined which look at Media and the world that we live in.



MUSIC

Teacher in Charge: Mrs Raine

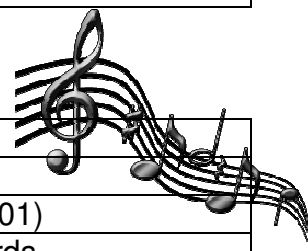
The Music Department of Otorohanga College offers opportunities for students to be involved in a wide range of musical activities. There are a number of performing groups. In previous years these have included; including Jazz Band, Concert Band, Barbershop Groups, Rock Bands and Singing Groups.

We are fortunate to have several visiting itinerant music tutors to supplement the teaching available from our own Department. Currently we have tuition in the following instruments: vocals, guitar, bass guitar, flute, clarinet, saxophone, trumpet, trombone and drums. The College has some instruments which can be hired or used when students are first starting to learn.

Music students are encouraged to perform in and around the community and often travel out of the area to attend music festivals and competitions.

Although the opportunity to participate in College Music is available to all students, many also take Music as one of their option subjects. Music is available as an academic subject at NCEA Level 1, NCEA Level 2 and NCEA Level 3.

Title	Music (MUS101)
Level	Level 1 NCEA
Entry Requirements	A successful Year 10 Music course
Assessment	Internal and external Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Instrument tuition ranges from \$10-\$40 per term
Course Outline	This course covers solo and group performance, composition, theory, musical knowledge and aural work.



Title	Music (MUS201)
Level	Level 2 NCEA
Entry Requirements	At least 14 credits in Level 1 Music (MUS101)
Assessment	Internal and external Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Instrument tuition ranges from \$10-\$40 per term
Course Outline	This course covers solo and group performance, composition, theory, musical knowledge, instrumentation and aural work.

Title	Music (MUS301)
Level	Level 3 NCEA
Entry Requirements	At least 14 credits in Level 2 Music (MUS201)
Assessment	Internal and external Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Instrument tuition ranges from \$10-\$40 per term
Course Outline	This course covers solo and group performance, composition, theory, musical knowledge, arrangement and aural work.

PATHWAYS

Teacher in charge: Mr Orsler

Title	National Certificate in Employment Skills (NCE201)
Level	Level 1 and 2 NCEA
Entry Requirements	Available to Year 12 and 13 students only.
Assessment	Internal
Course endorsement available	No
Approximate fees / costs	Nil
Course Outline	<p>This is a 2 – year course with students needing to achieve 55 – 68 credits in a selection of Unit Standards at Levels 1 and 2.</p> <p>This course is designed to develop a broad range of skills identified by employers as being important for people in the workplace. These skills include competence in literacy, oracy, numeracy and other personal and technical skills. Students will be encouraged to develop a career plan and explore the world of work.</p> <p>Compulsory Units: A number of compulsory standards will be completed from some of the following domains; Self-management, Work and Study Skills, Occupational Health and Safety Practice, Interpersonal Communications and Number</p> <p>Elective Units: A further 7 Standards will be completed from some of the following domains; Measurement, Work and Study Skills, Business Information Processing, Text and Information Management – generic, Interpersonal Communications, English Oral Language, English Written Language, English for Speakers of Other Languages Reading Writing.</p> <p>Elective Units: A minimum of 12 credits from Unit Standards from anywhere on the National Qualifications Framework.</p>



PHOTOGRAPHY

Teacher in charge: Mr Grey

Our aim is to give students the opportunity to experience the world around us through the visual arts by gaining skills that will enable them to communicate their ideas, perceptions and observations confidently through various Photography processes and procedures.

Title	Photography (PHO201)
Level	Level 2 NCEA
Entry Requirements	At least 12 credits in Level 1 Art (ART101)
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	\$75.00
Course Outline	This course is designed to introduce students to photographic practices. The course covers Photography and involves Research, theory, the investigation of ideas and methods and the production of original work in the form of a folio.

Title	Photography (PHO301)
Level	Level 3 NCEA
Entry Requirements	At least 12 credits in Level 2 Photography (PHO201)
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	\$75.00
Course Outline	This course is designed to extend student's knowledge of photographic practices studied in Level 2. The course covers the Discipline of Photography. It involves research and analysis, theory, investigating and using ideas and methods, and the production of original work in the form of a folio.



PHYSICAL EDUCATION

Teacher in charge: Mr Parsons

Title	Physical Education (PED201)
Level	Level 2 NCEA
Entry Requirements	At least 14 credits in Level 1 Physical Education and Health (PHE101). This course cannot be taken with PHE201.
Assessment	Internal Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	None
Course Outline	<p>The Level 2 Physical Education Course is aimed at preparing students for studying Physical Education at Level 3. This has two practical and two theory lessons a week.</p> <ul style="list-style-type: none"> • The relationship between Physical Activity and Health, and the Implications for Self and Society. • The Sociological Significance of a Sporting Event, Physical activity or Festival. • Principles and Methods of Training • Skill Learning Principles and Psychology skills • Performance in a Physical Activity in an Applied Setting. • Leadership Strategies in a Group or Team Physical Activity. • Demonstrate knowledge of safety issues and apply safety management procedures in a physical activity




Title	Physical Education (PED301)
Level	Level 3 NCEA
Entry Requirements	At least 14 credits in Level 2 Physical Education (PED201) or Physical Education and Health (PHE201).
Assessment	Internal Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	None
Course Outline	<p>This full Physical Education Achievement Standard Course is aimed at preparing students for university or further study in the topic area. It has 2 practical and 2 theory lessons per week. Topics studied include;</p> <ul style="list-style-type: none"> • Plan a Physical Activity Programme or Experience • Appraise Performance, Plan and Evaluate a Programme Improvement for Self or Others • Performance in a Chosen Physical Activity Against National Standards • Physical Activity Event, Trend or Issue, Impacting on New Zealand Society • Physical Activity and Take Action to Influence the Participation of Others

PHYSICAL EDUCATION & HEALTH

Teacher in charge: Mr Parsons

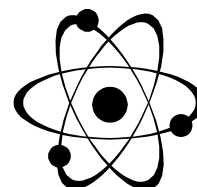
The Physical Education and Health Course is aimed at preparing students for studying Physical Education, Health or the combined Physical Education and Health at Level 2 and Level 3. This has two practical and two theory lessons a week.

Title	Physical Education and Health (PHE101)
Level	Level 1 NCEA
Entry Requirements	Satisfactory completion of Year 10 Physical Education and Health
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	None
Course Outline	<ul style="list-style-type: none"> • Influences on Hauora/Wellbeing • Quality Movement in own Performance of a Physical Activity • Understanding of Sexuality Issues • Interpersonal Skills and their Effects in the Functioning of a Team • Knowledge of Body Structure and Function Related to Performance of Physical Activity • Understanding of Issues Relating to Drugs

Title	Physical Education and Health (PHE201)
Level	Level 2 NCEA
Entry Requirements	At least 14 credits in Level 1 Physical Education and Health (PHE101). This course cannot be taken with PED201.
Assessment	Internal Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	None
Course Outline 	<ul style="list-style-type: none"> • Safety Issues and Safety Management Procedures in a Physical Activity • Skill Learning Principles and Psychology Skills in Relation to Physical Activity • Gender and Sexuality • Relationship Between Regular Exercise and Concepts of Fitness and Health • Principles and Methods of Training in Relation to Participation in Physical Activity • Competent Performance in a Physical Activity in an Applied Setting

PHYSICS

Teacher in charge: Mr Burt



Title	Physics (PHY201)
Level	Level 2 NCEA
Entry Requirements	Successful completion of Level 1 Science with a minimum of 14 credits and at least an 'Achieved' on the Physics External Achievement Standard
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees/costs	ABA Course Workbook – approximately \$25.00
Course Outline	<ul style="list-style-type: none"> • Mechanics • Waves • Electricity and Electromagnetism • Atoms and Radioactivity • Measurements of Physical quantities and analysing data graphically to determine a relationship • Integrated context of concepts

Title	Physics (PHY301)
Level	Level 3 NCEA
Entry Requirements	Successful completion of Level 2 Physics (PHY201) with a minimum of 14 credits. Successful completion of Level 2 Mathematics (MAT201) with a minimum of 12 credits would be an advantage.
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees/costs	ABA Course Workbook – approximately \$25.00
Course Outline	<ul style="list-style-type: none"> • Mechanical systems • Wave systems • Electrical systems • Atoms, photons and nuclei • Practical investigation with guidance that leads to a mathematical relationship

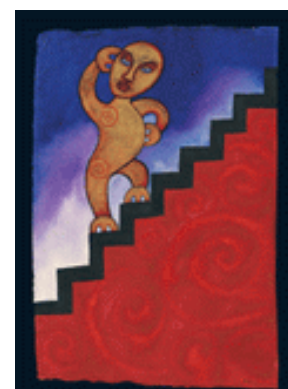
SCIENCE


Teacher in charge: Mr Burt

Title	Science (SCE101)
Level	Level 1 NCEA
Entry Requirements	Satisfactory completion of Year 10 Science
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	None
Course Outline	<ul style="list-style-type: none"> (i) Planning, processing, interpreting and communicating scientific information. (ii) Living world: micro organisms, genetics, plant/animal management (iii) Physical world: energy, mechanics, electricity. (iv) Material world: acids/bases, structure of atoms. (v) Planet Earth and beyond: rock types, geological time, and night sky.

Rapua te ara tika mou ake
Seek the path that is right for you

The figure represents individuals who have started their journey and are contemplating and reflecting on their next step/decision. The journey involves a collaborative 'climb' by the individual and the Kaitohutohu.



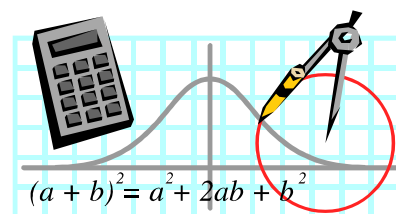
Title	Science (SCE102)
Level	Level 1 NCEA
Entry Requirements	Satisfactory completion of Year 10 Science
Assessment	Internal Achievement Standards
Course endorsement available	None
Approximate fees / costs	\$20 for Workbook
Course Outline 	The course will include topics taken from the following topics: (i) Planning, processing, interpreting and communicating scientific information. (ii) Living world: micro organisms, genetics, plant/animal management, life processes, ecology (iii) Physical world: energy, electricity, waves, heat (iv) Material world: acids/bases, structure of atoms, chemical reactions, metals, carbon compounds (v) Planet Earth and Beyond: astronomy, geology

Title	Science (SCE201)
Level	Level 2 NCEA
Entry Requirements	Successful completion of Level 1 Science with a minimum of 14 credits.
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	None
Course Outline	(i) Planning, processing, interpreting and communicating scientific information. (ii) Living world: micro organisms, genetics, plant/animal management (iii) Physical world: energy, mechanics, electricity. (iv) Material world: acids/bases, structure of atoms. (v) Planet Earth and Beyond: rock types, geological time, night sky.



STATISTICS & MODELLING

Teacher in charge: Mr Cowan



Title	Statistics and Modelling (MAS301)
Level	Level 3 NCEA
Entry Requirements	Students must have attained merit or better in the following Achievement Standards or at the discretion of the Head of Faculty in consultation with the Teacher. Manipulate algebraic expressions and solve equations, Use probability techniques to solve problems, Statistical Inference.
Assessment	A mixture of both internal Unit Standards and external Achievement Standards.
Course endorsement available	Yes
Approximate fees / costs	Nil
Course Outline	This course will covers a variety of topics including; Time Series, Confidence, Intervals, Probability, Solving Equations, Statistical Investigation involving bivariate data, Probability Distributions, Mathematical Models, and Linear Programming.

TE REO MĀORI

Teacher in charge: Ms Mita

Toi Te Mana**Toi Te Kupu****Toi Te Whenua**

The Māori Department offers courses in Te Reo Māori Me Ōna Tikanga from Level 1 to Level 3. These Courses encourage language development towards fluency and an awareness and respect for Tikanga Māori. The opportunity for cultural involvement through the College Cultural Group Ngā Tamariki Toa is open to all students.

Title	Te Reo Māori (MAO101)
Level	Level 1 NCEA
Entry Requirements	Year 10 Te Reo Māori OR at the discretion of the Head of Department Māori
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Nil
Course Outline	This course aims to develop the students' communication skills in Te Reo Māori through the language skills of listening, speaking, reading and writing so that they may be assessed appropriately. It aims also to encourage familiarity and ease with tikanga Māori to a level of social competence.

Title	Te Reo Māori (MAO201)
Level	Level 2 NCEA
Entry Requirements	12 credits or more in Level 1 Te Reo Māori (MAO101) OR at the discretion of the Head of Department Māori
Assessment	Internal and External Achievement Standards
Course endorsement available	
Approximate fees / costs	
Course Outline	This course aims to further develop the language skills of listening, speaking, reading, writing, and research in Te Reo Māori within familiar contexts so that they may be assessed appropriately. These contexts may include history, traditions, customs, and leisure activities.

Title	Te Reo Māori (MAO301)
Level	Level 3 NCEA
Entry Requirements	12 credits or more in Level 2 Te Reo Māori OR at the discretion of the Head of Department Māori
Assessment	Internal and External Achievement Standards
Course endorsement available	Yes
Approximate fees / costs	Nil
Course Outline	This course aims to further develop the language skills of listening, speaking, reading, writing, and research in Te Reo Māori within familiar contexts so that they may be assessed appropriately. These contexts may include history, traditions, customs, and leisure activities.



The pattern is based on the koru and symbolises Papatuanuku (Mother Earth, growth and development). The koru is supported and guided by three directional connections or fingers (matimati). These represent the three matimati in whakairo (carving) and the three philosophical principles of te pono (faith), tumanako (hope) and aroha (charity), which have a binding effect on growth towards maturity. In terms future pathways, the koru symbolises the puta atu (growth and development) of individuals as they pursue their whakamahi (career) development: mātauranga (knowledge), tautohito (skills) and whakamaherehere (advice/guidance of elders/those with wisdom).

TOURISM

Teacher in charge: Ms Grantham

Title	Tourism (TOR201 or TOR301)
Level	Level 2 and 3 NCEA
Entry Requirements	Level 1 Literacy credits
Assessment	Internal Unit Standards
Course endorsement available	No
Approximate fees / costs	Nil
Course Outline	This is a two year course: NATIONAL CERTIFICATE IN TOURISM AND TRAVEL LEVEL 2. The main objective of the course is to provide students with a general understanding of a major growth sector of both New Zealand's and the world's economy; that of Tourism

YOUNG ENTERPRISE

Teacher in charge: Mr Hockly

Title	Young Enterprise (YES301)
Level	Level 3 NCEA
Entry Requirements	Completed Level 2 NCEA
Assessment	Internal Unit Standards & Young Enterprise Exam. Maximum 24 credits offered.
Course endorsement available	No
Approximate fees / costs	\$50 fee per student for resources and registration of Company
Course Outline	Work through the process of setting up your own officially registered company. Issue shares, a prospectus and launch your product onto the local/NZ market. A number of YES businesses have gained recognition at a national level.