

# Ōtorohanga College



Honour Before Honours  
Ko te mana mō mua i te whakamana



**Level 3 Course Selection Booklet  
2017**

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## INTRODUCTION

Welcome to the Level 3 Course Selection Booklet for 2017, a year that promises to be filled with new and exciting challenges.

The purpose of this Level 3 Course Selection Booklet is to indicate the range of courses available at Ōtorohanga College in preparation for course selection.

Every effort is made to ensure that as many students as possible are able to study the courses they want. When a student's first choice of courses is not possible due to a timetable clash, oversubscription or a course not running, further course counselling will be provided. Courses which do not attract a sufficient number of students will not run, however, every attempt is made to ensure the continuity of courses. Placement in Level 3 courses is dependent on all prerequisites being met and/or at the discretion of the HOF and on the completion and submission of the course option sheet by the due date.

Parents/caregivers and students must note that by selecting a course that has course fees and other associated costs it means that you are agreeing to being invoiced and making payment for the fees. Course fees are outlined in the individual course details.

All students will be offered advice by their Dean to ensure that a sensible and realistic course of study is planned. Parents/caregivers will also be involved in this decision and they must approve the proposed course.

Use this booklet to plan a programme of learning that best suits your future ambitions. Please take time to read through the section titled Advice On Selecting Your Courses about what should determine your choices. We want you to take courses in 2017 for all the right reasons.

Think carefully, talk to your teachers and parents. Spend time and energy in the selection process to ensure that you have a course that is challenging and enriching. Choose wisely and plan to make 2017 your best year at Ōtorohanga College.

Mrs Kurth  
Deputy Principal, Learning

## ADVICE ON SELECTING YOUR COURSES

When considering your courses for 2017 you should:

- Take into account 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
- Give thought to the requirements for future qualifications and employment

Research shows that the two main influences on course choices are which courses your friends are taking and who is teaching a particular course. Neither of these should influence your course choice. Concentrate on what you need for your future career pathway.

Do not get caught up in the following myths:

- My friends are/are not doing it
- Mrs/Mr is/is not teaching it
- It will get me into University or it will get me a job
- Cannot think of anything else to take

Here is a formula that may help you:

**ABILITY + INTEREST + OCCUPATION = COURSE CHOICE**

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 Whānau Teacher, Dean, Head Of Faculty, Course Teacher, Careers Team, parents or guardians, older brothers and sisters and people in the work place. Look up career advice websites such as [www.careers.govt.nz](http://www.careers.govt.nz)

# NATIONAL CERTIFICATE OF EDUCATIONAL ACHIEVEMENT

Each year, students study a number of courses. In each course, skills and knowledge are assessed against a number of standards.

The College uses a range of Internal and External assessments to measure how well students meet these standards.

When a student achieves a standard, they gain a number of credits. Students must achieve a certain number of credits to gain an NCEA Certificate. There are three levels of NCEA Certificate. In general, students work through Levels 1 to 3 in Years 11 to 13.

Students are recognised for high attainment at each level by gaining NCEA with Merit or NCEA with Excellence.

## CERTIFICATE REQUIREMENTS

### LEVEL 1

80 credits including 10 Literacy and 10 Numeracy credits

### LEVEL 2

60 credits at Level 2 or above + 20 credits from Level 1 or above + Level 1 Literacy + Level 1 Numeracy

### LEVEL 3

60 credits at Level 3 or above + 20 credits from Level 2 or above + Level 1 Literacy + Level 1 Numeracy

Credits gained at one level count towards more than one Certificate. They may also be used towards other qualifications.

**All students should be working towards achieving 14+ credits per course to ensure they meet the criteria at each level of NCEA.**

**The importance of 14+ credits is:**

- 14 credits x 6 subjects = 84 credits
- 13 credits x 6 subjects = 78 credits

## **INTERNAL AND EXTERNAL ASSESSMENT**

Some standards are internally assessed by teachers during the year. Internal assessments are used to assess skills and knowledge that cannot be tested in an exam; for example, speeches, research projects and performances. External assessment examinations are held on fixed dates at the end of the year and students work within a given time frame.

### **ASSESSMENT GRADES**

The grades that a student can earn depend on the type of standard being assessed.

For Unit Standards:

- Achieved (A) for meeting the criteria of the standard
- Not achieved (N) if a student does not meet the criteria of the standard
- Some Unit Standards may also include Merit or Excellence grades. These are used for the purpose of recognising differentiated performance.

For Achievement Standards, there are four grades:

- Achieved (A) for a satisfactory performance
- Merit (M) for very good performance
- Excellence (E) for outstanding performance
- Not Achieved (N) if students do not meet the criteria of the standard

### **CERTIFICATE ENDORSEMENT**

If a student gains 50 credits at Excellence, their NCEA Certificate will be endorsed with Excellence. Likewise, if a student gains 50 credits at Merit, or a combination of Merit and Excellence, their NCEA Certificate will be endorsed with Merit.

Credits earned can count towards an endorsement over more than one year and more than one level, however, they must be gained at the level of the Certificate or above. For example, Level 2 credits will count towards endorsement of a Level 1 NCEA Certificate, but Level 1 credits will not count towards endorsement of a Level 2 NCEA Certificate.

### **COURSE ENDORSEMENT**

A course endorsement provides recognition for a student who has performed exceptionally well in an individual course.

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 must come from externally assessed standards and 3 credits from internally assessed standards.

## STUDYING AT UNIVERSITY?

University Entrance or UE is the minimum requirement to go to a New Zealand university. To be awarded UE you will need:

- NCEA Level 3
- Three approved courses at Level 3 or above, made up of 14 credits in each
- Literacy
  - 10 credits at Level 2 or above made up of 5 credits in Reading and 5 credits in Writing
- Numeracy
  - 10 credits at Level 1 or above, made up of specified Achievement Standards available through a range of courses
  - OR**
  - A package of three Numeracy Unit Standards, all three of which are required.

Once you have met the requirements for University Entrance this will appear on your Record Of Achievement.

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 COURSES FOR UNIVERSITY ENTRANCE

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• Accounting</li><li>• Agriculture and Horticulture</li><li>• Biology</li><li>• Business Studies</li><li>• Calculus</li><li>• Chemistry</li><li>• Chinese</li><li>• Classical Studies</li><li>• Construction And Metal Technologies</li><li>• Cook Islands Maori</li><li>• Dance</li><li>• Design/ Practical Art</li><li>• Design And Visual Communication</li><li>• Digital Technologies</li><li>• Drama</li><li>• Earth And Space Science</li><li>• Economics</li><li>• Education For Sustainability</li><li>• English</li><li>• French</li><li>• Geography</li><li>• German</li><li>• Health Education</li><li>• History</li><li>• History Of Art</li><li>• Home Economics</li><li>• Indonesian</li><li>• Japanese</li><li>• Korean</li><li>• Latin</li><li>• Mathematics</li><li>• Media Studies</li><li>• Music Studies</li><li>• Painting/Practical Art</li><li>• Photography/Practical Art</li><li>• Physical Education</li></ul> | <ul style="list-style-type: none"><li>• Physics</li><li>• Print Making/Practical Art</li><li>• Processing Technologies</li><li>• Samoan</li><li>• Science</li><li>• Sculpture/Practical Art</li><li>• Spanish</li><li>• Social Studies</li><li>• Statistics</li><li>• Technology</li><li>• Te Reo Māori</li><li>• Te Reo Rangatira</li></ul> |
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## CURRICULUM PATHWAYS

CURRICULUM PATHWAYS				
YEAR 9	YEAR 10	LEVEL 1	LEVEL 2	LEVEL 3
English *	English *	English *	English	English
Mathematics*	Mathematics*	Mathematics*	Mathematics	Calculus Statistics
Science *	Science *	Science	Biology Chemistry Physics	Biology Chemistry Physics
Global And Local Studies *	Global And Local Studies *	Geography History	Geography History Tourism	Geography History Tourism
	Business Studies+	Accounting Economics	Accounting	Accounting
Physical Education And Health*	Physical Education And Health*	Physical Education And Health*	Health  Physical Education  Physical Education And Health  Physical Education Recreation	Health  Physical Education
<b>Arts Rotation*</b>	<b>Technology Option</b>			
Te Reo Māori Art  Music Drama Pathways Education	Te Reo Māori Art +  Music + Drama +	Te Reo Māori Art  Music Performing Arts	Te Reo Māori Art Photography Music Performing Arts	Te Reo Māori Art Photography Music Performing Arts
<b>Technology Rotation*</b>	<b>Technology Option</b>			
Resistant Materials  Design And Visual Communication Fabric Technology Food And Nutrition  Digital Technologies	Resistant Materials Wood+ Resistant Materials Metal+ Design And Visual Communication Fabric Technology+ Food And Nutrition+  Digital Technologies +	Resistant Materials Wood Resistant Materials Metal Design And Visual Communication Fabric Technology Food And Nutrition Hospitality Digital Technologies	Technology  Design And Visual Communication Fabric Technology  Hospitality Digital Technologies	Technology  Design And Visual Communication Fabric Technology  Hospitality Digital Technologies
*Compulsory	+Half Year Option		Employment Skills	Employment Skills

## VOCATIONAL PATHWAYS



Vocational Pathways enable students to see how their learning is relevant for a wide range of jobs and study options in six broad sectors of industry:

- Manufacturing and Technology
- Construction and Infrastructure
- Primary Industries
- Social and Community Services
- Services Industries
- Creative Industries

The pathways help students thinking about their future options to see which courses and standards they should study to achieve their career goals. Achieving credits towards Vocational Pathways means students are developing foundation skills and knowledge in areas that employers value. Students can work towards the vocational pathway(s) by gaining credits from the Achievement Standards and Unit Standards recommended by the sectors.

### What Is A Vocational Pathway Award?

The award enables employers to assess whether potential employees' skills align with their industry requirements more easily. To receive a Vocational Pathways Award, students must:

- gain NCEA Level 2, which is 60 credits from Level 2 and 20 credits from any other level. 10 of these 80 credits must satisfy the Literacy requirement and 10 of these 80 credits must satisfy the Numeracy requirement
- 60 of the Level 2 credits must be from the recommended standards in one or more pathways, including 20 Level 2 credits from sector related standards

The Vocational Pathways Award(s) will be awarded to students on their Record Of Achievement.



## Vocational Pathways

Sector	Jobs In This Sector Include:
 Creative Industries	actor, artist, art director, graphic designer, screen printer, stage designer...
 Primary Industries	arborist, beekeeper, biochemist, farm worker, fencer, fishery officer, food technologist, gardener, hunter, marine biologist, scientist, vet, winemaker...
 Service Industries	accountant, army soldier, chef, hairdresser, journalist, sales representative...
 Social and Community Services	ambulance officer, firefighter, laboratory technician, midwife, police officer, security guard, teacher...
 Manufacture and Technology	engineer, architect, automotive electrician, automotive mechanic, baker, biochemist, food technologist, fork-lift operator, printer...
 Construction and Infrastructure	builder, civil engineer, forklift operator, interior designer, surveyor, welder...

## COURSE ADVICE

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	<b>Health And Physical Wellbeing/Hauroa</b>	<b>HOF/Mr Parsons</b>
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	<b>Mathematics/Pāngarau</b>	<b>HOF/Mr Newton</b>
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Accounting will develop the knowledge, skills and attitudes to enable students to:

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

**Course Title**

Accounting Level 3 NCEA

**Course Code**

ACC31W

**Course Outline**

This course will develop an understanding of accounting concepts and processes for partnerships, companies and job costing systems.

**Course Prerequisite**

14 or more credits in Level 2 Accounting (ACC21W).

**Course Fee**

Nil

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91405	Demonstrate understanding of accounting for partnerships	4	I	-	
91409	Demonstrate understanding of a job cost subsystem for an entity	4	I	-	
91407	Prepare a report for an external user that interprets the annual report of a New Zealand reporting entity	5	I	R and W	
91406	Demonstrate understanding of company financial statement preparation	5	E	-	
91404	Demonstrate understanding of accounting concepts for a New Zealand reporting entity	4	E	R	



Art gives students the opportunity to experience the world around them by gaining skills that will enable them to communicate and express their ideas, perceptions and observations confidently through various art media. Students can engage with purpose in an environment of critique and opinion.

**Course Title**  
Art Level 3 NCEA

**Course Code**  
ART31W

**Course Outline**

This course covers the disciplines of painting, sculpture 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.

**Course Prerequisite**

12 or more credits in Level 2 Art (ART21W).

**Course Fee**

\$55

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91441	Analyse methods and ideas from established painting practice	4	I	R and W	
91446	Use drawing to demonstrate understanding of conventions appropriate to painting	4	I	-	
91451 (Extension offered, not compulsory)	Systematically clarify ideas using drawing informed by established painting	4	I	-	
91456	Provide a systematic body of work that integrates conventions and regenerates ideas within painting practice	14	E	-	
91460	Produce a resolved work that demonstrates purposeful control of skills appropriate to a visual arts cultural context	4	I	-	



Biology leads students to investigate and develop their understanding of diversity, structure, function and the interrelationships of living organisms and their interactions with the abiotic environment.

<b>Course Title</b> Biology Level 3 NCEA	<b>Course Code</b> BIO31W
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**Course Outline**  
 . This course covers planning, processing, interpreting and communicating scientific information, trends in human evolution, biotechnology, biological issues, ecological niche of plants and animals, plant responses and animal behaviour.

**Course Prerequisite**  
 Successful completion of Level 2 Biology with a minimum of 14 credits.

**Course Fee**  
 \$40

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91603	Demonstrate understanding of the responses of plants and animals to their external environment	3	E	R and W	▲
91602	Integrate biological knowledge to develop an informed response to a socio-scientific issue	4	I	R and W	▲▲▲
91604	Demonstrate understanding of how an animal maintains a stable internal environment	3	I	R	▲▲
91606	Demonstrate understanding of trends in human evolution	4	E	R and W	▲
91607	Demonstrate understanding of human manipulations of genetic transfer and its biological implications	3	I	R	▲▲▲



Chemistry is about understanding the different properties of different substances and how these can change. Chemistry allows us to predict how substances may change when the surrounding conditions change or how they may react to form new substances.

<b>Course Title</b> Chemistry Level 3 NCEA	<b>Course Code</b> CHE31W
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**Course Outline**  
This course covers the areas of redox reactions, organic chemistry, properties of particles, extended chemistry investigation and quantitative chemistry.

**Course Prerequisite**  
14 credits in Level 2 Chemistry (CHE21W) or at the discretion of the HOF.

**Course Fee**  
\$60

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91387	Carry out an investigation in chemistry involving quantitative analysis	3	I	W	▲
91388	Demonstrate understanding of spectroscopic data in chemistry	4	I	-	▲▲▲ ▲
91389	Demonstrate understanding of chemical processes in the world around us	3	I	R and W	▲▲▲ ▲
91393	Demonstrate understanding of oxidation reduction process	4	I	-	▲▲▲ ▲
91390	Demonstrate understanding of thermochemical principles and the properties of particles and substances	3	E	-	▲▲▲ ▲
91391	Demonstrate understanding of the properties of organic compounds		E	-	▲▲▲ ▲▲



**Design And Visual Communication  
Level Three  
Teacher In Charge/Mr Howitt**

Design And Visual Communication focuses on understanding and applying drawing techniques and design practice to communicate design ideas. Students work through assignments based on architecture and product design involving research, generating and developing ideas through sketching and creating final designs using formal drawing techniques, model making and computer aided drawing.

<b>Course Title</b> Design And Visual Communication Level 3 NCEA	<b>Course Code</b> DVC31W
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**Course Outline**  
This course includes the focus points of client interaction - using a local enterprise as the client, developing design and visual communication skills within technological practice and functional modelling - using mock-ups to explain and test design ideas.

**Course Prerequisite**  
Attainment of 14 credits in Level 2 Design And Visual Communication (DVC21W).

**Course Fee**  
Nil

<b>Course Assessment</b>					
Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91629	Resolve a spatial design through graphics practice	6	I	-	
91630	Resolve a product design through graphics practice	6	I	-	
91631	Produce working drawings to communicate production details for a complex design	6	E	-	



The Digital Technologies Department offers courses to enable students to become confident in using digital technologies including computers in a wide range of situations. The skills learnt provide techniques that can be used in most businesses and provide a base for further education in Digital Technologies.

<b>Course Title</b> Digital Technologies Level 3 NCEA	<b>Course Code</b> DTE31W
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**Course Outline**  
This course builds on from the Level 2 Digital Technologies course to focus on more advanced features of Microsoft Word, mail merge, database, spreadsheets and Publisher.

**Course Prerequisite**  
If not taken previously; entry at teacher discretion.

**Course Fee**  
Nil

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
2780	Demonstrate and apply knowledge of a personal computer	3	I	-	
2781	Manage and protect data in a personal computer system	3	I	-	
2785	Create spreadsheets to provide a solution for an organisation	5	I	-	
2789	Produce desktop published documents for organisational use	6	I	-	
2787	Provide a computing flat file data to provide a solution for an organisation	6	I	-	
5968	Discuss the social implications of information technology	3	I	-	
12886	Customise software features to manipulate text for generic text and information management	6	I	-	



**Employment Skills  
Level Three  
Teacher In Charge/Mrs Kurth**

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, numeracy and other personal and technical skills.

**Course Title**  
Employment Skills Level 3 NCEA

**Course Code**  
EMP31W

**Course Outline**

This course is designed to develop a broad range of skills identified by employers as being important to ensure a learner is equipped to operate and be productive in the workplace. Students will be encouraged to develop a career plan and explore the world of work.

**Course Prerequisite**

Nil

**Course Fee**

Nil

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
4251	Plan a career pathway	2	I	-	
1980	Describe, from an employee perspective, ways of dealing with employment relationship problems	2	I	-	
7126	Respond to an oral one-to-one complaint	2	I	-	
376	Employ customer service techniques to accommodate customer behaviour styles in a workplace	2	I	-	
12384	Demonstrate knowledge of analytical and global thinking styles	2	I	-	
1296	Interview in an informal situation	3	I	-	
1312	Give oral instructions in the workplace	3	I	-	
11097	Listen actively to gain information in an interactive situation	3		-	



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 Ōtorohanga College focus on two key areas: the study of language and literacy skills and the study of texts.

**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 and parents will occur where necessary.

**Course Title**  
English Level 3 NCEA

**Course Code**  
ENG31W

**Course Outline**

Novel, feature film, close reading of unfamiliar text, writing portfolio and making connections across texts.

**Course Prerequisite**

Completion of ENG21W with at least 14 credits and at the discretion of the HOF.

**Course Fee**

Nil

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91472	Respond critically to specified aspect(s) of studied written text(s), supported by evidence	4	E	R and W	
91473	Respond critically to specified aspect(s) of studied visual or oral text(s), supported by evidence	4	E	W	
91475	Produce a selection of fluent and coherent writing which develops, sustains and structures ideas	6	I	W	
91476	Create and deliver a fluent and coherent text which develops, sustains and structures ideas	3	I	R and W	
91478	Respond critically to significant connections across texts, supported by evidence	4	I	-	



Fabric Technology allows students to learn and practise the essential apparel skills to become confident when sewing. Students will be given the opportunity to develop their knowledge of how to create textile items and garments.

<b>Course Title</b> Fabric Technology Level 3 NCEA	<b>Course Code</b> TFA31W
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**Course Outline**  
Students will develop knowledge to create a variety of textile items and garments over the course of the year.

**Course Prerequisite**  
Basic sewing skills.

**Course Fee**  
\$20 and students will be required to purchase their own materials for the course.

<b>Course Assessment</b>					
Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91623	Implement complex procedures to create an applied design for a specified product	4	I	-	
91621	Implement complex procedures using textile materials to make a specified product	6	I	-	
91611	Develop a prototype considering fitness for purpose in the broadest sense	6	I	-	
91613	Develop understanding of material development	4	E	W	



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 students 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    Practical skills    Social And Valuing Skills**

**Course Title**  
Geography Level 3 NCEA

**Course Code**  
GEO31W

**Course Outline**

Topics to be studied include: natural processes, cultural processes, geographic research, global studies, current geographic issues and geographic events.

**Course Prerequisite**

10 credits or greater in NCEA Level 2 Geography (GEO21W) or English (ENG21W) or at the discretion of the HOF.

**Course Fee**

\$150 Fieldtrip/Tongariro, \$25 Fieldtrip/Fieldays, \$25 Fieldtrip/Waitomo.

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91426	Demonstrate understanding of how interacting natural processes shape a New Zealand geographic environment	4	E	R and W	
91427	Demonstrate understanding of how a cultural process shapes geographic environment(s)	3	I	R	
91428	Analyse a significant contemporary event from a geographic perspective	3	I	R	
91429	Demonstrate understanding of a given environment(s) through the selection and application of geographic concepts and skills	4	E	R and W	
91430	Conduct geographic guidance with consultation	5	I	-	
91431	Analyse aspects of a contemporary geographic issue	3	I	R	
91432	Analyse aspects of a geographic topic at a global scale	3	I	-	



**Health  
Level Three  
Teacher In Charge/Mrs Andrews**

The Health Program at Ōtorohanga College is a course exploring hauora/well being and many health enhancing decisions. Students learn to think critically and to make meaning of the world around them by exploring health related contexts. We also look at contemporary health issues in both the world and New Zealand as well as Health Promotion.

**Course Title**  
Health Level 3 NCEA

**Course Code**  
HEA31W

**Course Outline**

This course consists of four theory lessons a week. Topics to be studied include health issues within New Zealand society, analyse an international health issue, contemporary ethical dilemmas that influence health and well-being and evaluate health practices currently used in New Zealand.

**Course Prerequisite**

Successful completion of PHE21W or HEA21W with a minimum of 14 credits.

**Course Fee**

Nil

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91461	Analyse a New Zealand health issue	5	I	R	▲▲▲
91463	Evaluate health practices currently used in New Zealand	5	I	R	▲▲
91464	Analyse a contemporary ethical issue in relation to well-being	4	I	R	▲▲▲
91462	Analyse an international health issue	5	E	R and W	▲▲▲



**History  
Level Three  
Teacher In Charge/Mr Cassidy**

History develops the skills of research, processing and communication. It uses a range of resources such as photographs, maps, cartoons, documents and texts. History teaches students how to plan and write logically.

**Course Title**  
History Level 3 NCEA

**Course Code**  
HIS31W

**Course Outline**

Topics to be studied may include the importance of the Treaty Of Waitangi, the New Zealand wars, The Maori King Movement, Tudor Stuart England and how 911 changed the world

**Course Prerequisite**

10 credits or greater in NCEA Level 2 History (HIS21W) or Level 2 English (ENG21W) or at the discretion of the HOF.

**Course Fee**

Nil

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91434	Research an historical event or place of significance to New Zealanders, using primary and secondary sources	5	I	R	
91435	Analyse an historical event, or place, of significance to New Zealanders	5	I	R	
91436	Analyse evidence of an historical event of significance to New Zealanders	4	E	R and W	
91437	Analyse different perspectives of a contested event of significance to New Zealanders	5	I	R	
91438	Analyse the causes and consequences of an historical event	6	E	R and W	



Hospitality offers students opportunities to develop the essential culinary skills they will need in the outside world, educates ways to promote well-being/hauora in order for students to make informed healthy decisions, promotes creativity and develops confidence.

<b>Course Title</b> Hospitality Level 3 NCEA	<b>Course Code</b> HOS31W
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**Course Outline**  
Students will complete a variety of Hospitality Unit Standards. There will also be the opportunity to complete Barista at Level 3.

**Course Prerequisite**  
Level 2 Hospitality or at the discretion of the HOD.

**Course Fee**  
\$60

<b>Course Assessment</b>					
Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
18497	Demonstrate knowledge of culinary products and terms	8	I	-	
17284	Demonstrate knowledge of coffee origin and production	3	I	-	
17288	Prepare and present espresso beverages for service	5	I	-	
168	Demonstrate knowledge of food contamination hazards and control methods used in a food business	4	I	-	
17285	Demonstrate knowledge of commercial espresso coffee equipment and prepare espresso beverages under supervision	4	I	-	
17286	Prepare and present pressed coffee for service	2	I	-	
17287	Prepare and present filtered coffee for service	2	I	-	



**Mathematics  
Calculus  
Level Three  
Teacher In Charge/Mr Newton**

Calculus is the advanced study of changes to patterns. In this course you will learn how to predict when, and how, changes affect outcomes.

Calculus is essential for understanding many areas of human knowledge such as chemistry, physics, engineering and aeronautics. You will finally be able to see why you learnt many things in Mathematics previously and how to use them.

<b>Course Title</b> Mathematics/Calculus Level 3 NCEA	<b>Course Code</b> CAL31W
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**Course Outline**  
This is a full academic Level Three Calculus course that is the prerequisite for many University courses. The course covers 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 and solving equations of trigonometric functions.

**Course Prerequisite**  
At least 14+ credits in Level 2 Mathematics (MAT21W) or at the discretion of the HOF.

**Course Fee**  
Nil

<b>Course Assessment</b>					
Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91575	Apply trigonometric methods in solving problems	4	I	-	
91577	Apply the algebra of complex numbers in solving problems	5	E	-	
91578	Apply differentiation methods in solving problems	6	E	-	
91579	Apply integration methods in solving problems	6	E	-	



**Mathematics  
Statistics  
Level Three  
Teacher In Charge/Mr Newton**

Statistics is one of the fastest growing areas of study. In this course you will learn how to identify and analyse information to make meaningful decisions. Statistics uses data about the world to assist us in making likely predictions about the future. Many areas of tertiary study require a knowledge of statistical analysis, so this is a great subject to take if you wish to continue studying beyond college.

<b>Course Title</b> Mathematics/Statistics Level 3 NCEA	<b>Course Code</b> STT31W
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**Course Outline**  
This course covers a range of topics including time series, confidence intervals, probability, solving equations, statistical investigation involving bivariate data, probability distributions, mathematical models and linear programming.

**Course Prerequisite**  
At least 14+ credits in Level 2 Mathematics (MAT21W) or at the discretion of the HOF.

**Course Fee**  
Nil

<b>Course Assessment</b>					
Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91574	Apply linear programming in solving problems	3	I	-	▲▲▲
91576	Use critical path analysis in solving problems	2	I	-	▲▲▲
91581	Investigate bivariate measurement data	4	I	-	▲
91585	Apply probability concepts in solving problems	4	E	-	▲▲▲
91586	Apply probability distributions in solving problems	4	E	-	▲▲▲



**Music  
Level Three  
Teacher In Charge/Miss Hayes**

The Music Department of Ōtorohanga College offers opportunities for students to be involved in a wide range of musical activities. 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. 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.

**Course Title**  
Music Level 3 NCEA

**Course Code**  
MUS31W

**Course Outline**

This course covers solo and group performance, composition, theory, musical knowledge, arrangement, aural work and music technology.

**Course Prerequisite**

At least 14 credits in Level 2 Music (MUS21W).

**Course Fee**

Instrument tuition ranges from \$20 to \$60 per term.

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91416	Perform two programmes of music			-	▲
91417	Perform a programme of music as a featured soloist on a second instrument				▲
91418	Demonstrate ensemble skills by performing two substantial pieces of music as a member of a group				▲
91419	Communicate musical intention by composing three original pieces of music				▲
91421	Demonstrate understanding of harmonic and tonal conventions in a range of music scores				▲
23730	Operate music sequencing, editing and music notation applications				

While 36 credits may be offered, you will work in consultation with your teacher to choose a programme between 20 to 24 credits.



**Performing Arts  
Level Three  
Teacher In Charge/Mrs Raine**

This is a multi-level class which incorporates activities from the disciplines of Dance and Drama. Emphasis will be placed on increasing students' confidence when speaking or performing, while understanding the elements of their chosen discipline. Students will have the opportunity to take assessments in Dance and Drama. Members of this class need to be prepared to take part in practical activities as well as completing written work when analysing the elements of Performing Arts.

**Course Title**  
Performing Arts Level 3 NCEA

**Course Code**  
PER31W

**Course Outline**  
This course covers dance performance, dance choreography, elements of dance, drama performance and drama techniques.

**Course Prerequisite**  
NCEA Level 2

**Course Fee**  
A small fee may apply depending on the student's choices within the course.

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91589	Choreograph a group dance to develop and resolve ideas	4	I	-	▲
91590	Perform a solo or duet dance	4	I	-	▲
91591	Perform a group dance	4	I	-	▲
91592	Perform a repertoire of contrasting dances	6	I	-	▲
91593	Demonstrate understanding of dance performance practices	4	I	-	▲
91594	Analyse a dance performance	4	E	W	▲
91512	Interpret scripted text to integrate drama techniques in performance	4	I	R	▲
91518	Demonstrate understanding of live drama performance	4	E	W	▲

While 36 credits may be offered, you will work in consultation with your teacher to choose a programme between 20 to 24 credits.



**Photography  
Level Three  
Teacher In Charge/Mr Grey**

Photography gives students the opportunity to experience the world around them by gaining skills that will enable them to communicate and express their ideas, perceptions and observations confidently through photographic techniques and processes. Students can engage with purpose in an environment of critique and opinion.

**Course Title**  
Photography Level 3 NCEA

**Course Code**  
PHHO31W

**Course Outline**

This course is designed to extend students' 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.

**Course Prerequisite**

At least 12 credits in Level 2 Photography (PHO21W).

**Course Fee**

\$40

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91442	Analyse methods and ideas from established photography practice	4	I	R and W	
91447	Use drawing to demonstrate understanding of conventions appropriate to photography	4	I	-	
91452 (Extension offered, not compulsory)	Systematically clarify ideas using drawing informed by established photography	4	I	-	
91457	Produce a systematic body of work that integrates conventions and regenerates ideas within photography practice	14	E	-	
91460	Produce a resolved work that demonstrates purposeful control of skills appropriate to a visual arts cultural context	4	I	-	



**Physical Education  
Level Three  
Teacher In Charge/Mr Parsons**

The Physical Education program at Ōtorohanga College is centered around making students active for life. Students will complete two practical and two theory lessons a week. Topics are focused around; anatomy, physiology, biomechanics, sports performance, fitness, interpersonal skills, sports promotion, outdoor education and safety. There is no better place to learn about life and character than in the gym and on the field of play. "When at play your character is on display!"

**Course Title**  
Physical Education Level 3 NCEA

**Course Code**  
PED31W

**Course Outline**  
This full Physical Education Achievement Standard Course is aimed at preparing students for university or further study in the topic area. It has two practical and two theory lessons per week.

**Course Prerequisite**  
At least 14 credits in Level 2 Physical Education (PED21W) or Physical Education And Health (PHE21W).

**Course Fee**  
Nil

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91498	Evaluate physical activity experiences to devise strategies for lifelong well-being	4	I	-	
91499	Analyse a physical skill performed by self or others	3	I	-	
91500	Evaluate the effectiveness of a performance improvement programme	4	I	-	
91501	Demonstrate quality performance of a physical activity in an applied setting	4	I	-	
91502	Examine a current physical activity event, trend or issue and its impact on New Zealand society	4	I	-	
91504	Analyse issues in safety management for outdoor activity to devise safety management strategies	3	I	-	



**Physics  
Level Three  
Teacher In Charge/Mr Burt**

Physics seeks to understand nature at its most fundamental level. Studying Physics attempts to discover and apply the general laws that govern force and motion, matter and energy and space.

**Course Title**  
Physics Level 3 NCEA

**Course Code**  
PHY31W

**Course Outline**

Topics to be studied include mechanical systems, wave systems, electrical systems, testing a physics theory relating to two variables in a non-linear relationship, modern physics, the application of physics to a selected context and using physics knowledge to develop an informed response to a socio-scientific issue.

**Course Prerequisite**

Successful completion of Level 2 Physics (PHY21W) with a minimum of 14 credits. Successful completion of Level 2 Mathematics (MAT21W) with a minimum of 12 credits would be an advantage.

**Course Fee**  
\$45

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91521	Carry out a practical investigation to test a physics theory relating to two variables in a non-linear relationship	4	I	-	
91522	Demonstrate understanding of the application of physics to a selected context	3	I	-	
91523	Demonstrate understanding of waves	4	E	-	
91524	Demonstrate understanding of mechanics	6	E	-	
91525	Demonstrate understanding of modern physics	3	I	-	
91526	Demonstrate understanding of electricity and electromagnetism	6	E	-	
91527	Use physics knowledge to develop an informed response to a socio-scientific issue	3	I	R	



Technology is intervention by design to expand human possibilities. Through technology education, students have the opportunity to develop a broad technological literacy and to experience and explore a wide range of technologies in a variety of contexts that will enable them to participate as informed participants in an ever changing world.

**Course Title**  
Technology Level 2

**Course Code**  
TEC31W

**Course Outline**

This course covers theory and practical lessons based on technology practice, technology knowledge and the nature of technology. Students will learn practical skills as they develop models, products and systems. Students will get opportunities to design and construct their projects with appropriate tools and machines.

**Course Prerequisite**

At least 14 credits at Level 2 Technology (TEC21W) including Unit Standard 497.

**Course Fee**  
\$75

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91620	Implement complex procedures to integrate parts using resistant materials to make a specified product	6	I	-	
14996	Construct working drawings for use in furniture making	5	I	-	
14998	Construct isometric and oblique drawings for use in furniture making	3	I	-	
25552	Set and operate a surface planer to bevel, rebate and taper wooden furniture components	4	I	-	
25553	Set and operate a thicknesser to splay and taper wooden furniture components	3	I	-	
25537	Set a bandsaw to cut furniture components	4	I	-	
25537	Set a bandsaw to cut furniture components	4	I	-	
12997	Demonstrate knowledge of safe working practices on construction sites	2	I	-	
12998	Demonstrate knowledge of carpentry hand tools	4	I	-	
13000	Demonstrate knowledge of portable power tools used on construction sites			-	
13002	Demonstrate knowledge of timber used in construction	2	I	-	
24362	Demonstrate knowledge of working drawings and specifications for building work	3	I	-	



**Te Reo Māori  
Level Three  
Teacher In Charge/Miss 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 and the Maniapoto Secondary Schools' Combined Cultural Group, Te Waikōwharawhara, is open to all students. Commitment to kaupapa such as Te Koroneihana and local Hui Poukai will be encouraged.

**Course Title**

Te Reo Maori Level 3 NCEA

**Course Code**

MAO31W

**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. History, traditions, customs and leisure activities will be explored in the context of the units covered. Te Reo Māori at this level will require a higher level of independency, commitment and effort.

**Course Prerequisite**

12 credits or more in Level 2 Te Reo Māori (MAO21W) or at the discretion of the HOD.

**Course Fee**

Nil

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
91650	Whakarongo kia mōhio ki te reo Māori o te ao whānui	4	I	-	
91651	Kōrero kia whakamahi i te reo Māori o te ao whānui	6	I	-	
91652	Pānui kia mohio ki te reo Māori o te ao whānui	6	E	R	
91653	Tuhi i te reo Māori o te ao whānui	6	E	W	
91654	Waihanga tuhinga whai take i te reo Māori o te ao whānui	6	I	W	



**Tourism And Travel  
Level Three  
Teacher In Charge/Mr Cassidy**

The tourism and travel industry is one of the largest industries in the world as well as one of the most exciting and glamorous. It the second largest creator of jobs in New Zealand.

This course helps prepare students for entry into the tourism industry by giving them the knowledge, attributes and skills that leads to further educational opportunities or direct entry into sectors of the tourism industry.

While employment advantages may be gained by undertaking the course, further advantages occur for those wishing to travel around New Zealand or overseas by providing knowledge of the attractions and activities that tourists travel for.

A National Certificate in Tourism is offered which is a two year course as well as the usual Level 2 and Level 3 credits.

**Course Title**  
Tourism And Travel Level 3 NCEA

**Course Code**  
TOR31W

**Course Outline**

This is a two year course that works towards the completion of The 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. Students will work on a set course of credits made up of both Level 2 and Level 3 credits with the aim of achieving their National Certificate over two years of study. A selection of units will be chosen depending upon student interest, but sufficient to achieve a National Certificate in Tourism.

**Course Prerequisite**

Level 1 Literacy

**Course Fee**

Nil

**Course Assessment**

Standard	Title	Credits	Internal/External	University Entrance	Vocational Pathway
24733	Describe and promote a New Zealand tourist destination	4	I	-	
24725	Describe and analyse the economic significance of tourism	4	I	-	
8211	Demonstrate knowledge of Australia as a tourist destination	8	I	-	
3727	Demonstrate knowledge of Pacific Islands as a tourist destination	8	I	-	
26461	Demonstrate knowledge of Asian countries as tourist destinations	8	I	-	

