

Rotorua Boys' High School



NCEA Pathways Guide

2021

Level 3

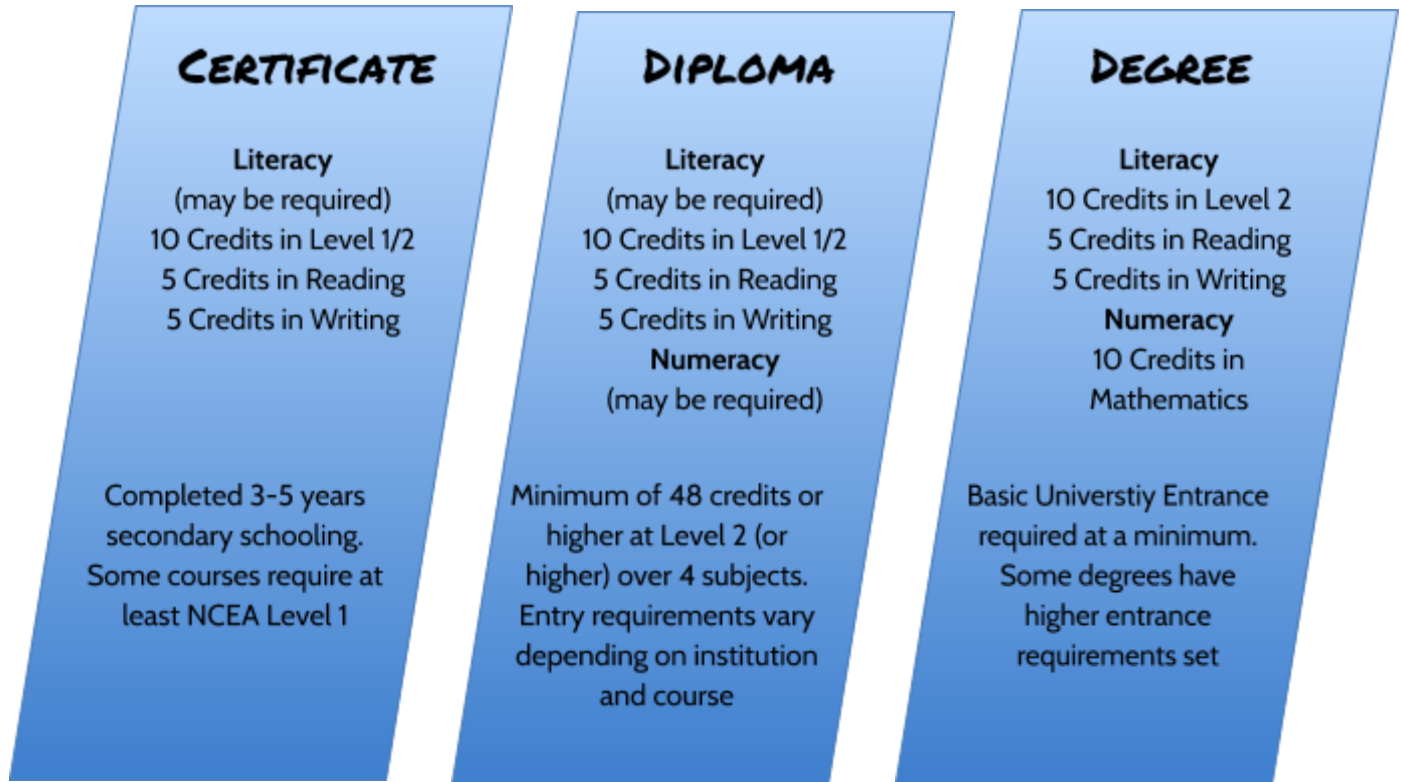
Introduction

In Year 11, 12 and 13 students have the choice to work towards the completion of different National Certificates. NCEA enables students to use their credits for more than one qualification. At Rotorua Boys' High School, we are using the metaphor of a Kete when discussing the bank of credits a student can accrue through NCEA. Amongst other purposes, Kete were used for storing objects and items of value. There are few things more valuable than an education in this world. Credits can come out of their kete to fulfil the requirements of any one National Certificate but go back into their kete to fulfil the requirements of any other National Certificate.



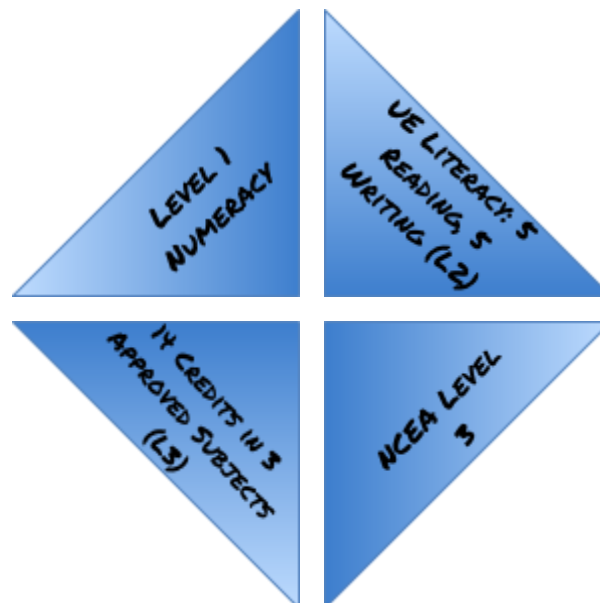
Selecting Your Pathway Beyond School

The courses you select to form your learning programme in 2018 need to be in harmony with your interests and pathway planning.



**THE ABOVE IS A GENERAL GUIDE ONLY.*

University Entrance



Vocational Pathways

Rotorua Boys' High School incorporates the "Vocational Pathways" into our curriculum programme. The Vocational Pathways provides a clear framework for vocational options and improves the links between education and employment. Using this tool, students will be able to map and plan towards a clear career goal whether that is in the workforce or moving towards further study.



The pathways help you as a student, see how your learning and achievement will be valued in the 'real world' when you look for a job and start your career.

Achieving Vocational Pathways means that as a student you have developed skills and achieved in areas that employers' value, and that you have skills and knowledge that is relevant to their industries.

To earn a certificate endorsement with a vocational pathway, students must attain 20 sector related credits in a vocational pathway and 60 more credits in that same vocational pathway. This makes it easier for employers to see if you have the strengths and abilities they are looking for.

If you are aiming for a career in a sector, the pathway helps you to see which subjects and standards you should do to get to where you want to go. For most jobs or careers, you'll definitely need to further your education after school through tertiary study or training on the job.

Profile Builder - Through your Vocational Pathways Profile you will be able to see a graph which can show you what you plan to learn or your current achievements. Students and parents can enter the standards achieved (or plan to achieve) to build an individual profile. Find it here at www.youthguarantee.net.nz

The Job Profiles - Provides a large number of roles and occupations in each industry sector. If you haven't decided and you are thinking about the future, the pathways can help see how your strengths and interests match up to an amazing range of jobs and study options out there.



NCEA Level 3 Course Outlines

Level 3 Applied Language Studies 3ALS

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 3	Services Industries 7	Social & Community Services 0	Creative Industries 15
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Course Overview

This is a composite course aimed at preparing students for life after school, while also giving them a grounding in conversational Chinese and Te Reo Maori which are ideal for the Rotorua Tourism based workforce.

These skills combined with Financial Literacy skills will aid students in learning how to move out of home, make safe purchases, either through cash or credit and know their rights when going flatting.

This is a life skills based class, with a focus to ensure young men of Raukura are prepared for an independent life after school.

Course Entry

Level 1 Numeracy and Literacy

Course Cost

NIL

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
28104	Analyse the impact of external factors on personal finances	Int		3	N
28098	Evaluate options to increase personal income	Int		3	N
28099	Analyse credit options and select strategies to manage personal financial goals	Int		3	N
28100	Develop a plan to achieve a long-term personal financial goal(s)	Int		4	N
TBC	<i>Extra Standards will be added based on Tourism and Conversational Languages</i>	Int			

Level 3 Small Business Accounting - 3SBA

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 4	Services Industries 13	Social & Community Services 0	Creative Industries 4
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Course Overview

Students gain practical knowledge of applying for loans and purchasing on credit. The ability to “price up jobs” within either trade or professional industries and investigate potential investment opportunities within the NZ Sharemarket.

Both Academic and Vocational pathways are available, with the opportunity for students to gain C.V ready experience in Accounting and Finance.

Knowledge and skills gained in Small Business Accounting will aid students in their financial and non financial decision making and prepare them for either Trade or Tertiary study.

Course Entry

12 credits in Level 2 Accounting or with HOF approval

Course Cost

Nil

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91405	Demonstrate understanding of accounting for partnerships	Int		4	Y
91870	Analyse the effects of financing options of a strategic capital expenditure decision on a business	Int		4	Y
91409	Demonstrate understanding of a job cost subsystem for an entity	Int		4	Y
91407	Prepare a report for an external user that interprets the annual report of a New Zealand reporting entity	Int	R/W	5	Y
91383	Analyse a human resource issue affecting business	Int		3	Y
91871	Analyse how a product meets market needs through innovation in the value chain	Int	W	4	Y
91869	Analyse future proofing strategies to ensure long term viability of a business.	Int		4	Y
91408	Demonstrate understanding of management accounting to inform decision making	Ext		4	Y

Level 3 Art - 3ART

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 22
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Course Overview

Students will use the processes and procedures used to make Art, learnt in the previous year and apply this to their own personal investigation. The student will be given the opportunity to initiate their own artwork, choose their own subject matter (what to paint and how to paint it). The student will discuss their idea with their teacher and negotiate an approach to the student selected subject matter. The focus of the course during this year is very similar to the Level 2 year, however the folio-board submission is larger and the art-making idea must be robust enough to sustain the student’s investigations.

The evidence of the art-making process will be accessed internally. The artworks will be submitted as a folio board submission and assessed externally by a marking panel.

Course Entry

The student is expected to have successfully completed study in this subject area at Level 2, achieving a minimum of 16 credits. Entry is also available to students who have not taken Art before, based on the submission of a portfolio of drawings and/or paintings that demonstrate sufficient ability to achieve at the required level.

Course Cost

There is no charge for this course.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91446 (V2)	Use drawing to demonstrate understanding of conventions appropriate to painting.	Int		4	Y
91451 (V2)	Systematically clarify ideas using drawing informed by established painting practice.	Int		4	Y
91456 (V2)	Produce a systematic body of work that integrates conventions and regenerates ideas within painting practice.	Ext		14	Y

Level 3 Automotive - 3AUT

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 4	Services Industries 0	Social & Community Services 0	Creative Industries 0
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Sector Related Standards

Construction & Infrastructure 0	Manufacturing & Technology 17	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 0
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Course Overview

This course shows students the operation, maintenance and servicing of two and four stroke engines with an in depth trade related knowledge of four stroke engines.

Course Entry

Course Cost

\$100

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
30563	Demonstrate knowledge of automotive charging and starting systems	Int		4	N
30480	Demonstrate knowledge of automotive cooling systems and engine coolant	Int		2	N
30477	Demonstrate knowledge of petrol and diesel engines	Int		4	N
30574	Demonstrate knowledge of ignition systems	Int		3	N
30556	Service an automotive battery	Int		3	N

Level 3 Building and Timber Trade - 3BTT

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 0
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Course Overview

This programme gives you the foundation of industry knowledge and skills that will enhance your ability to gain employment and apprenticeships in the building and construction sector. You will have the theoretical knowledge and the introductory practical skills that are valued by employers selecting new apprentices.

Course Entry

Level 2 Building Timber Trade or by discretion of the HOD

Course Cost

\$100

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
29682	Select, use and maintain tools, equipment and machinery for a Stage 3 BCATS project	Int		4	N
29681	Measure and calculate	Int		3	N
29679	Develop and use a BCATS project documentation for a Stage 3 BCATS project	Int		8	N
29678	Demonstrate knowledge of, select and use materials for a Stage 3 BCATS project	Int		4	N
29677	Follow safe workplace practices, and contribute to a health and safety culture in a BCATS environment	Int		2	N

Level 3 Business Studies - 3BUS

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 0
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Course Overview

Business Studies is one of New Zealand's fastest growing subjects, with the highest retention of students studying Business related courses at a tertiary level. In Level 2 Business Studies, students ran their own business throughout the course of the year - whilst competing against other schools in the Young Enterprise Challenge. In Level 3, students will continue to run their businesses or start new ventures, all while expanding their business knowledge and experience. Students will have the opportunity to complete three internals throughout the year, focusing on future proofing a business for long-term success, creating a marketing plan and running a sustainable and innovative business activity.

Young Enterprise Scheme

Similar to level 2, students will run a business activity throughout the year in conjunction with the Young Enterprise Trust. They will run a sustainable and innovative business activity, whilst completing challenges that allow them to compete both regionally and nationally. The Young Enterprise Scheme is a commonly used vehicle to deliver Business Studies Achievement Standards at level 2 & 3, and is extremely successful at giving students practical business experience and developing skills that they can transition to the real world.

Course Entry

12 credits in Level 2 Business Studies or with HOF approval

Course Cost

Access to start up capital for the year is preferred, however not compulsory.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91869	Analyse future proofing strategies to ensure long term viability of a business	Int	R	3	Y
91328	Develop a marketing plan for a new or existing product	Int	R	6	Y
91384	Carry out, with consultation, an innovative and sustainable business activity	Int	R	9	Y
91380	Demonstrate understanding of strategic response to external factors by a business that operates in a global context	Ext	R/W	4	Y
91379	Demonstrate understanding of how internal factors interact within a business that operates in a global context (optional)	Ext	R/W	4	Y

Level 3 Chinese - 3CHI

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 16	Social & Community Services 6	Creative Industries 6
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Course Overview

The course builds on NCEA Level 1 & 2 Chinese. Students will further develop their language skills. They will be comfortable interacting with native speakers, especially those of their own age, in social situations. During the course students develop the skills to use Chinese language variably and effectively to express and justify their own ideas and opinions and support and challenge those of others. The course consists of 14 Internal credits (Speaking, Interaction and Writing) and 10 External credits (Listening and Reading). Students will be able to use and identify the linguistic and cultural forms that guide interpretation and enable them to respond critically of texts.

Course Entry

At least 12 credits from Level 2 Chinese

Course Cost

\$15

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91533 (V2)	Demonstrate understanding of a variety of extended spoken Chinese texts.	Ext		5	Y
91534 (V1)	Give a clear spoken presentation in Chinese that communicates a critical response to stimulus material.	Int		3	Y
91535 (V1)	Interact clearly using spoken Chinese to explore and justify varied ideas and perspectives in different situations.	Int		6	Y
91536 (V1)	Demonstrate understanding of a variety of extended written and/or visual Chinese texts.	Ext		5	Y
91537 (V1)	Write a variety of text types in clear Chinese to explore and justify varied ideas and perspectives.	Int		5	Y

Level 3 Dance – 3DAN					
Course Relationship to the National Vocational Pathways (sector standards)					
Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 0
Sector Related Standards					
Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 20
Course Overview					
The Level 3 Dance Course covers a range of Dance concepts including, Performing a Solo dance, Group Dance, learning how to Choreograph and Dance analysis.					
Course Entry					
A passion and interest for Performing Arts and in particular Dance					
Cost					
There is no cost for this course.					
Standards offered in course		Credits	Int/Ext	UE Approved	
91588 (V2)	Produce a Dance to realise a concept	8	Int	Y	
91589 (V2)	Choreograph a Dance to Develop and Resolve Ideas	4	Int	Y	
91590 (V2)	Perform a Solo or Duet Dance	4	Int	Y	
91591 (V2)	Perform a Group Dance	4	Int	Y	
91592 (V2)	Perform a Repertoire of Contrasting Dances	4	Int	Y	

Level 3 Design and Visual Communication - 3DVC

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 28	Manufacturing & Technology 28	Primary Industries 16	Services Industries 4	Social & Community Services 0	Creative Industries 28
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Course Overview

Level 3 Design and Visual Communication focuses on one of two major design disciplines: Spatial Design and Product Design with the option of a further Presentation Design. Their assignments will focus on using visual communication techniques of sketching, collage, rendering, overlays, mockups and models, photography and digital media. They will also explore ideas through visual communication strategies that support regenerating and interrogating design ideas.

Course Entry

The minimum requirement to enter this course will be the achievement of at least 15 credits in the Level 2 Design and Visual Communication course. Students may apply to the HOD in exceptional circumstances if they have not met this prerequisite.

Course Cost

There is no charge for this course.

Standards offered in course		Int/ Ext	Lit (R/W)	Credits	UE Approved
AS91629 (V3)	Resolve a spatial design through graphics practice.	Int		6	Y
AS91630 (V3)	Resolve a product design through graphics practice.	Int		6	Y
AS91628 (V3)	Develop a visual presentation that exhibits a design outcome to an audience.	Int		6	Y
AS91627 (V3)	Initiate design ideas through exploration.	Ext		4	Y
AS91610 (V3)	Develop a conceptual design considering fitness for purpose in the broadest sense.	Int	Y	6	Y

Level 3 Digital Technology - 3DGT

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 22	Primary Industries 14	Services Industries 12	Social & Community Services 0	Creative Industries 8
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Course Overview

This course covers a range of digital concepts to prepare students for further study or the workplace. To participate in our future society students need to be able to adapt to change, research, think critically; work creatively, plan, & self-assess to enable them to communicate ideas in a creative & critical way. This course helps students to develop these skills in a context that opens the way for career paths across the ICT Spectrum. Students can select from either Unit Standards or Achievement Standards to gain the credits (14) required for Level 3. Students should choose based on their preferred pathway (i.e. AS for University Entry or US for trades)

Course Entry

Level 2 Digital

Course Cost

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
AS91909	Present a reflective analysis of developing a digital outcome	Ext		3	Y
AS91902	Use complex techniques to develop database	Int		4	Y
AS91903	Use complex techniques to develop a digital media outcome	Int		4	Y
AS91906	Use complex programming techniques to develop a computer program	Int		6	Y

Level 3 Engineering - 3TEC

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 14	Manufacturing & Technology 14	Primary Industries 6	Services Industries	Social & Community Services 0	Creative Industries 10
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Course Overview

This course aims to develop skills in the areas of product design and engineering manufacturing. Successful participation requires students to research, think critically, work creatively, plan, and self-assess to enable them to communicate ideas in a creative & critical way. This course will offer 19 credits in Unit Standards. Students will be required to explore real life engineering skills.

Students will learn skills that transfer directly to industry with developing and reading plans and welding skills in various positions.

Course Entry

Open entry. (Level 2 Engineering or Level 2 DVC an advantage.)

Course Cost

\$100

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
30570	Demonstrate knowledge of welding in the motor industry	Int		3	No
29653	Manually produce third angle orthographic drawings of simple engineering objects	Int		3	No
US2678	Join metals using the oxy-acetylene welding process.	Int		3	No
US20799	Demonstrate knowledge of common engineering metals	Int		4	No
US2679	Join metals using the torch brazing and soldering processes			6	No

Level 3 English - 3ENG/3ENA

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 22	Manufacturing & Technology 12	Primary Industries 22	Services Industries 22	Social & Community Services 22	Creative Industries 17
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Course Overview

This course consists of internal and external achievement standards. Students will develop reading and writing skills and will develop the capacity to critically analyse text. This course sets students up for further education because it thoroughly covers the written and visual strands of English. This course will allow students to gain the 14 credits they require for university entry.

Course Entry

3 ENG - Level 2 Literacy and 12 Level 2 English credits

3 ENA - Level 2 Literacy and 12 Level 2 English credits (internal and external at Merit and Excellence)

Course Cost: \$10

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91473 (v.1) ENA	Respond critically to specified aspect(s) of studied written text(s), supported by evidence	Ext	R/W	4	Y
91474 (v.1)	Respond critically to significant aspects of unfamiliar written texts through close reading, supported by evidence	Ext	R/W	4	Y
91475 (v.1) ENA	Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas	Int	W	6	Y
91478 (v.1)	Respond critically to significant connections across texts, supported by evidence	Int	-	4	Y
91480 (v.1)	Respond critically to significant aspects of visual and/or oral text(s) through close reading, supported by evidence	Int	-	3	Y
91479 (v.1)	Develop an informed understanding of literature and/or language using critical texts	Int	R	4	Y
91476 (v.1)	Create and deliver a fluent and coherent oral text which develops, sustains and structures ideas	Int	-	3	Y

Level 3 Food and Hospitality - 3FHO

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 0
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Course Overview (33 Level 3 Credits & 4 Level 2)

This qualification recognizes the competence, knowledge, and skills required for cooking food dishes and working with the main food ingredients in a commercial kitchen. It is awarded to people who are able to demonstrate, under supervision the ability to prepare dishes from fresh produce and to cook dishes at an operational level using a range of basic preparation techniques, cookery methods, and finishing techniques.

Course Entry

Open entry

Course Cost

There is no charge for this course.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
13293	Prepare and cook vegetable dishes in a commercial kitchen	Int		6	N
17285	Demonstrate knowledge of commercial espresso coffee equipment and prepare espresso beverages under supervision	Int		4 (L2)	N
18497	DKO-Demonstrate knowledge of culinary products and terms (unit to be worked on during the year)	Int		8	N
13316	Prepare and cook basic pasta dishes in a commercial kitchen	Int		3	N
13282	Prepare , assemble, and present complex sandwiches for service in a commercial kitchen	Int		2	N
13314	Prepare and cook egg dishes in a commercial kitchen	Int		4	N

Level 3 Geography - 3GEO

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 4	Manufacturing & Technology 0	Primary Industries 7	Services Industries 18	Social & Community Services 3	Creative Industries 6
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Course Overview

This course can be passed doing only Internal Assessments.

This course provides the opportunity to gain UE Literacy.

The skills developed in Geography are transferable and applicable to a wide range of other tertiary study areas.

This year you will further develop your geographic skills with time spent outside the classroom doing field work. The focus for this year is on natural processes such as fluvial erosion, transportation and deposition and cultural processes such as event planning and urban decision making processes.

Geography is becoming increasingly important as a career, as the issue of resources and the future sustainable use of these resources, becomes ever more important. Environmental issues and resource consent are directly linked to the assessments we do in Geography.

Geography's emphasis on the interaction between groups, individuals and communities creates career opportunities in the field of Crown / Iwi Treaty issues.

Course Entry

Open entry. Approval by the Dean and/ or HOF

Course Cost

Nil

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91428	Analyse a significant contemporary event from a geographic perspective	Int	R	3	Y
91429	Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills	Ext	R/W	4	Y
91430	Conduct geographic research with consultation	Int		5	Y
91431	Analyse aspects of a contemporary geographic issue	Int	R	3	Y
91432	Analyse aspects of a geographic topic at a global scale	Int	R	3	Y

Level 3 History - 3HIS

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 14	Services Industries 10	Social & Community Services 0	Creative Industries 10
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Course Overview

The course work gives students the opportunity to gain key research, inquiry and writing skills which will either support students in the working industry or in higher education. In Year 13 we will primarily focus on the origins of World War I, leading to the Gallipoli Campaign and our involvement as New Zealanders. We will also investigate contested historical events such as the Colonisation of Australia, the New Zealand Land Wars and the development and dropping of the Atomic Bombs. There may also be the opportunity to explore topics in Aotearoa prior colonisation. This course provides the opportunity to gain UE Literacy.

Course Entry

Participated and achieved in Level 2 History or with the approval of the HOD

Course Cost

Nil

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91434	Research an historical event or place of significance to New Zealanders using primary and secondary sources	Int	R/W	5	Y
91435	Analyse an historical event or place of significance to New Zealanders	Int	R	5	Y
91436	Analyse evidence relating to an historical event of significance to New Zealanders	Ext	R/W	4	Y
91437	Analyse different perspectives of a contested event of significance to New Zealanders	Int	R	5	Y
91438	Analyse the causes and consequences of a significant historical event	Ext	R/W	6	Y

Level 3 Maori Performing Arts - 3MPA

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 0
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Course Overview

Students will combine their written skills and Māori Performance Arts skills to achieve in this course. Students will have a variety of performance and theory assessments to complete throughout the year, all of which pertain to Haka, Mōteatea and Waiata ā-ringā.

Course Entry

Level 2 Māori Performing Arts or by discretion of the Director of Māori Performing Arts.

Course Cost

There is no cost for this course, however, excursions may incur a cost.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
13372 (V7)	Perform haka	Int		15	N
13360 (V6)	Perform mōteatea	Int		15	N
13364 (V6)	Perform waiata-ā-ringā	Int		15	N

Note: In 2021, Māori Performing Arts will shift to achievement standards. Once the details are received, they will be reflected in the school's Māori Performing Arts programme.

Mathematics Courses

Level 3 Mathematics - 3MAT

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 5	Manufacturing & Technology 3	Primary Industries 21	Services Industries 8	Social & Community Services 14	Creative Industries 4
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Course Overview

This course contains six Level Three Achievement Standards given a total of 21 possible credits. It is assessed internally so is ideal for mainstream Mathematics students who are capable of gaining Achieved, Merit or Excellence grades in these assessments but who do not want to enter any external assessments. The course covers a mixture of Statistics and calculus standards. There is the option to sit an external examination for those students aiming for the extra recognition of a Merit or Excellent subject endorsement or who just want the extra challenge.

Course Entry

14 or more credits at Level 2 plus teacher recommendation

Course Cost

There is no cost for this course

Standards offered in course		Int/ Ext	Lit (R/W)	Credits	UE Approved
91580 (V2)	Investigate bivariate measurement data	Int		4	Y
91582 (V2)	Use statistical methods to make an inference	Int		4	Y
91574 (V2)	Apply linear programming methods in solving problems	Int		3	Y
91581 (V2)	Investigate times series data	Int		4	Y
91576 (V2)	Use critical path analysis in solving problems	Int		2	Y
91583 (V2)	Conduct an experiment using experimental design principles	Int		4	Y
91586 (V2)	Optional Apply probability distributions in solving problems	Ext		4	Y

Level 3 Mathematics with Calculus - 3MAC

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 15	Manufacturing & Technology 13	Primary Industries 8	Services Industries 0	Social & Community Services 2	Creative Industries 3
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Course Overview

This is a full mathematics course for those students who are interested in continuing to study algebra and number type concepts. As the manipulation of algebra is an integral part of the course, students choosing this subject need to have a good grasp or being interested in the study of algebra. As part of the course students will explore Algebra, Trigonometry and Calculus throughout this course. Students may also study the 3MAT course for a second UE approved subject. This is an internally assessed course.

Course Entry

14 or more credits at Level 2 plus teacher recommendation

Course Cost

There is no cost for this course

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91574 (V2)	Apply linear programming methods in solving problems	Int		3	Y
91573 (V2)	Apply the geometry of conic sections in solving problems	Int		3	Y
91587 (V2)	Apply linear systems in solving problems	Int		3	Y
91576 (V2)	Use critical path analysis in solving problems	Int		2	Y
91575 (V2)	Apply trigonometric methods in solving problems	Int		4	Y

Level 3 Advanced Mathematics - 3MAA

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 27	Manufacturing & Technology 25	Primary Industries 20	Services Industries 0	Social & Community Services 8	Creative Industries 3
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Course Overview

This is a full mathematics course for those students who are interested in working towards externals and scholarships in Calculus. This is an ideal course for students looking to study subjects such as Science, Engineering or Economics at University. The manipulation of algebra and the fundamentals of Calculus are an integral part of the calculus course so students need to be fully proficient in both components. Students may also study the 3MAT course for a second UE approved subject. Students can gain further recognition of their achievement with a Merit and Excellence endorsement for this subject.

Course Entry

The minimum requirement to enter this course will be the achievement of at least 14 credits in the 2MAC course and to have completed the program of study for AS 2.6 and AS 2.7. Students may apply to the HOD in exceptional circumstances if they have not met this prerequisite.

Course Cost

There is no cost for this course.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91574 (V2)	Apply linear programming methods in solving problems	Int		3	Y
91573 (V2)	Apply the geometry of conic sections in solving problems	Int		3	Y
91587 (V2)	Apply linear systems in solving problems	Int		3	Y
91576 (V2)	Use critical path analysis in solving problems	Int		2	Y
91575 (V2)	Apply trigonometric methods in solving problems	Int		4	Y
91577 (V2)	Apply algebraic methods in solving problems	Ext		5	Y
91578 (V2)	Apply differentiation methods in solving problems	Ext		6	Y

Level 3 Maori Carving - 3MCA

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 0
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Course Overview

In Carving, at this level the student will be working towards gaining Level Three credits for the National Certificate of Educational Achievement.

The work completed throughout the year will be internally assessed and externally moderated. The moderation will be facilitated by an external expert panel in the field of Whakairo, to ensure consistency across the participating schools.

The aim as in the previous year's course is to provide an environment where students can use the skills developed and explore themes that are of personal significance. The student will be encouraged to produce a body of work that contains research, drawings and carved work. The student will be given greater freedom to pursue a pathway through Whakairo that is significant to them. There will be a process of negotiation and review that supports the student's investigations.

Course Entry

The student is expected to have successfully completed study in this subject area at Level 2, achieving a minimum of 15 credits. Entry is also available to students who have not taken Carving before, based on the submission of a portfolio of drawings and another medium (preferably carving) that demonstrate sufficient ability to achieve at the required level.

Course Cost

\$60

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
US 23013 (V2)	Apply Maori art conventions, design and practices to develop Whakairo.	Int		6	N
US 23014 (V2)	Develop ideas to create Whakairo.	Int		6	N
US 23015 (V2)	Examine meaning in particular Whakairo situations.	Int		6	N
US 23016 (V2)	Examine and interpret change in particular Whakairo situations.	Int		6	N

Level 3 Music - 3MUS

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 34
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Course Overview

The Level 3 Music Course covers Solo and Group Performance, Composition aspects, as well as Theory and Research based assessments. Students will also study and analyse pieces of Music. There is plenty of opportunity to use Music digital technologies within the realms of composition and recording. Classes will consist of a balance between practical and theory based lessons.

Course Entry

Level 2 Music or Grade 5 Music, equivalent of 4 years of instrumental tuition

Course Cost

There is no cost for this course.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91416 (V2)	Perform two programmes of music as a featured soloist.	Int		8	Y
91418 (V2)	Demonstrate ensemble skills by performing two substantial pieces of music as a member of a group.	Int		4	Y
91419 (V2) (Optional standard)	Communicate musical intention by composing three original pieces of music.	Int		8	Y
91849 (V1)	Compose three songs that show imaginative thinking	Int		8	Y
91422 (V2) (Optional standard)	Analyse a substantial music work.	Ext		4	Y
91417 (V2) (Optional standard)	Perform a programme of Music as a featured soloist on a second instrument.	Int		4	Y
91425 (V2)	Research a music topic.	Int	R	6	Y
91421 (V2) (Optional standard)	Demonstrate knowledge of harmonic and tonal conventions in a range of music scores.	Ext		4	Y

Level 3 Physical Education - 3PED

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 22	Social & Community Services 14	Creative Industries 15
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Course Overview

This is a course that has both practical and theoretical components. It includes elements of modern Physical Education and Health such as: anatomy, physiology, history of sport, biomechanics, motor learning, sports medicine and exercise prescription. You will be working towards Level 3 credits for the National Certificate of Achievement in Education (NCEA).

Candidates will be expected to:

- Demonstrate skills, concepts and understandings in the Personal Health and Physical Development, Relationships with Other People, the Movement Concepts and Motor Skills and Health Communities and Environments curriculum strands.
- Apply these skills, concepts and understandings in a physical setting
- Demonstrate the ability to communicate effectively and use interpersonal skills.
- Participate consistently and effectively in all class settings.

Course Entry

Students must obtain at least 14 credits from the Level 2 Course, in addition complete Achievement Standard 91328 and/or 91329

Course Cost

\$130 (including camp)

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91499 (V2)	Analyse a physical skill performed by self or others	Int		3	Y
91501 (V2)	Demonstrate quality performance of a physical activity in an applied setting	Int		4	Y
91500 (V2)	Evaluate the effectiveness of a performance improvement programme	Int		4	Y
91502 (V2)	Examine a current physical activity event, trend or issue and its impact on New Zealand society	Int	R	4	Y
91504 (V2)	Analyse issues in safety management for outdoor activity to devise safety management strategies.	Int		3	Y
91789 (V2)	Devise strategies for a physical activity outcome	Int		4	Y

Level 3 Sport Academy - 3SAC

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 22	Social & Community Services 14	Creative Industries 15
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Course Overview

This is a course that has both practical and theoretical components. It includes elements of modern Physical Education and Health such as: anatomy, physiology, history of sport, biomechanics, motor learning, sports medicine and exercise prescription. You will be working towards Level 3 credits for the National Certificate of Achievement in Education (NCEA).

Candidates will be expected to:

- Demonstrate skills, concepts and understandings in the Personal Health and Physical Development, Relationships with Other People, the Movement Concepts and Motor Skills and Health Communities and Environments curriculum strands.
- Apply these skills, concepts and understandings in a physical setting
- Demonstrate the ability to communicate effectively and use interpersonal skills.
- Participate consistently and effectively in all class settings.

Course Entry

Students must obtain at least 14 credits from the Level 2 Course, in addition complete Achievement Standard 91328 and/or 91329

Course Cost

\$130 (Includes Camp)

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91499 (V2)	Analyse a physical skill performed by self or others	Int		3	Y
91501 (V2)	Demonstrate quality performance of a physical activity in an applied setting	Int		4	Y
91500 (V2)	Evaluate the effectiveness of a performance improvement programme	Int		4	Y
91502 (V2)	Examine a current physical activity event, trend or issue and its impact on New Zealand society	Int	R	4	Y
91504 (V2)	Analyse issues in safety management for outdoor activity to devise safety management strategies.	Int		3	Y
91789 (V2)	Devise strategies for a physical activity outcome	Int		4	Y

Level 3 Police Preparation - 3POL

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure TBC	Manufacturing & Technology TBC	Primary Industries TBC	Services Industries TBC	Social & Community Services TBC	Creative Industries TBC
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Course Overview

The course provides students with an understanding of the knowledge, skills, attributes and attitudes associated with policing in New Zealand. Upon completion, students receive a certificate of completion. It will be a programme offered in association with the NZ Police to help prepare boys for entry to Police College/Police Training at the beginning of 2022.

Topics covered include:

1. The context of policing in New Zealand
2. Relevant legislation, policies, strategies, procedures and ethics within policing in New Zealand
3. The integration of theory and practice associated with policing.

Course Entry

Completion of NCEA Level 2 Certificate

Course Cost

\$150

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91501 (V2)	Demonstrate quality performance of a physical activity in an applied setting	Int		4	Y
1304 (V9)	Communicate across cultures	Int		2	N
26971 (V1)	Mental Health Wellbeing	Int		3	N
1297 (V7)	Interview in Formal Situation	Int		5	N
4251 (V8)	Plan a career pathway	Int		2	N
11097 (V5)	Listen actively to gain information in an interactive situation	Int		3	N
9681 (V7)	Contribute within a team or group which has an objective	Int		3	N

Level 3 - Sports Studies

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 4	Social & Community Services 4	Creative Industries 0
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Sector Related Standards

Construction & Infrastructure 0	Manufacturing & Technology 0	Primary Industries 0	Services Industries 0	Social & Community Services 0	Creative Industries 0
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Course Overview

This course is designed for students who are passionate about sport to improve their sport-related fitness and skills, and use their sporting interests as a context for wider learning. The course also develops valuable social, co-operative and leadership skills that will assist young people in their sporting journeys and other life endeavours. The course draws upon assessments from a range of learning areas, including Physical Education and Health, using sport as the main context of learning.

Candidates will be expected to:

- Demonstrate skills, concepts and understandings in the Personal Health and Physical Development, Relationships with Other People, the Movement Concepts and Motor Skills and Health Communities and Environments curriculum strands.
- Apply these skills, concepts and understandings in a physical setting
- Demonstrate the ability to communicate effectively and use interpersonal skills.
- Participate consistently and effectively in all class settings.
- Manage a junior sports team.
- Be involved in an extracurricular activity.

Course Entry

14 or more credits at Level 2 Physical Education and/or be involved in an extracurricular school activity.

Course Cost

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
30933 (V1)	Demonstrate exercise stretching technique	Int		5	N
30935 (V1)	Develop and implement an exercise plan for personal fitness	Int		5	N
30936 (V1)	Demonstrate knowledge of the purpose and protocols of exercise testing	Int		5	N
91505 (V2)	Examine contemporary leadership principles applied in physical activity contexts	Int		4	Y

SCIENCE COURSES

Level 3 Biology - 3BIO

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 0	Manufacturing & Technology 6	Primary Industries 18	Services Industries 0	Social & Community Services 9	Creative Industries 0
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Course Overview

In Level 3 Biology you will be working towards a mixture of internal and external achievement standards. Level 3 Biology is a UE approved subject, although you will need to pass an external achievement standard to meet the requirements of UE in this course. You will study how plants and animals respond to their environment, the evolution of modern humans, maintaining a stable internal environment by homeostasis, techniques for genetic transfer and various socioscientific issues. This course leads on to study in the Biological Sciences or other related branches of science at University.

Course Entry

The minimum requirement to enter this course will be the achievement of one external achievement standard from the 2BIO course (BIO2.4 or BIO2.7).

Students may apply to the LoL in exceptional circumstances if they have not met this prerequisite.

Course Cost

There is no cost for this course.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91602 (v2)	Bio 3.2 Integrate biological knowledge to develop an informed response to a socio-scientific issue.	Int	R/W	3	Y
91603 (v3)	BIO3.3 Demonstrate understanding of the responses of plants and animals to their external environment.	Ext	R/W	5	Y
91604 (v2)	BIO3.4 Demonstrate understanding of how an animal maintains a stable internal environment.	Int	R	3	Y
91606 (v2)	BIO3.6 Demonstrate understanding of trends in human evolution.	Ext	R/W	4	Y
91607 (v2)	Bio 3.7 Demonstrate understanding of human manipulations of genetic transfer and its biological implications.	Int	R	3	Y

Level 3 Chemistry - 3CHE**Course Relationship to the National Vocational Pathways (sector standards)**

Construction & Infrastructure 19	Manufacturing & Technology 19	Primary Industries 19	Services Industries 5	Social & Community Services 19	Creative Industries 0
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Course Overview

In Level 3 Chemistry you will be working towards a mixture of internal and external achievement standards. Level 3 Chemistry is a UE approved subject, although you will need to pass an external achievement standard to meet the requirements of UE in this course. You will study oxidation reduction processes, organic chemistry, how to use spectroscopy to identify compounds, structure bonding and energy changes of compounds and chemical processes that occur in the world around us. This course leads on to study in the Chemical Sciences or other related branches of science at University.

Course Entry

The minimum requirement to enter this course will be the achievement of one external achievement standard from the 2CHE course (CHEM2.4 or CHEM2.6).

Students may apply to the LoL in exceptional circumstances if they have not met this prerequisite.

Course Cost

There is no cost for this course.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91388 (v2)	CHEM3.2 Demonstrate understanding of spectroscopic data in chemistry.	Int		3	Y
91389 (v2)	CHEM3.3 Demonstrate understanding of chemical processes in the world around us	Int	R/W	3	Y
91390 (v2)	CHEM3.4 Demonstrate understanding of thermochemical principles and the properties of particles and substances.	Ext		5	Y
91391 (v2)	CHEM3.5 Demonstrate understanding of the properties of organic compounds.	Ext		5	Y
91393 (v2)	CHEM3.7 Demonstrate understanding of Oxidation-Reduction processes	Int		3	Y

Level 3 Physics - 3PHY

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 20	Manufacturing & Technology 20	Primary Industries 13	Services Industries 0	Social & Community Services 20	Creative Industries 0
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Course Overview

In Level 3 Physics you will be working towards a mixture of internal and external achievement standards. Level 3 Physics is a UE approved subject, although you will need to pass an external achievement standard to meet the requirements of UE in this course. You will study mechanics systems, wave systems, modern physics, and how physics applies to selected contexts. You will also carry out a series of practical investigations..

This course leads on to study in Engineering, Physical Sciences or other related branches of science at University.

Course Entry

The minimum requirement to enter this course will be the achievement of one external achievement standard from the 2PHY course (PHYS2.3 or PHYS2.4). It is recommended that you are also enrolled in either 3MAA or 3MAC as this course contains a large amount of mathematics.

Students may apply to the LoL in exceptional circumstances if they have not met this prerequisite.

Course Cost

There is no cost for this course.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91521 (v2)	PHYS3.1 Carry out a practical investigation to test a physics theory relating two variables in a non-linear relationship.	Int		4	Y
91522 (V2)	PHYS3.2 Demonstrate understanding of the application of physics to a selected context.	Int		3	Y
91523 (v2)	PHYS3.3 Demonstrate understanding of wave systems.	Ext		4	Y
91524 (v2)	PHYS3.4 Demonstrate understanding of mechanical systems.	Ext		6	Y
91525 (v2)	PHYS3.5 Demonstrate understanding of modern physics.	Int		3	Y

Level 3 Te Reo Maori - 3TRM

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 28	Manufacturing & Technology 28	Primary Industries 28	Services Industries 28	Social & Community Services 28	Creative Industries 28
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Course Overview

Students are required to complete three internal assessment portfolios of work. Each internal assessment portfolio will consist of at least two samples of work from a range of different contexts and for different purposes. The three internal assessment portfolios will focus on three areas of Te Reo Māori being Whakarongo –Listening; Kōrero – Speaking; Waihanga Tuhinga – Creative Writing. The two external assessment components focus on two areas of Te Reo Māori being Pānui - Reading & Tuhituhi - Writing.

Course Entry

A minimum of 12 credits in any internal assessment standards, and a minimum of 6 credits in any external assessment standards in Level 2 Te Reo Māori or by discretion of the Head of Faculty Māori.

Course Cost

There is no cost for this course.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91650 (V2)	Whakarongo kia mōhio ki te reo Māori o te ao whānui	Int		4	Y
91651 (V2)	Kōrero kia whakamahi i te reo Māori o te ao whānui	Int		6	Y
91652 (V2)	Pānui kia mohio ki te reo Māori o te ao	Ext	R	6	Y
91653 (V2)	Tuhi i te reo Māori o te ao whānui	Ext	W	6	Y
91654 (V2)	Waihanga tuhinga whai take i te reo Maōri o te ao whānui	Int	W	6	Y

Level 3 Te Reo Rangatira - 3REO

Course Relationship to the National Vocational Pathways (sector standards)

Construction & Infrastructure 26	Manufacturing & Technology 26	Primary Industries 26	Services Industries 26	Social & Community Services 26	Creative Industries 26
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Course Overview

Students are required to complete 5 internal assessments, and 2 external assessments, all in Te Reo Māori for NCEA Level 3 Te Reo Rangatira.

Students will also sit the Scholarship Te Reo Māori Exam. Furthermore, should students meet the prerequisites for discretionary entrance into the Te Reo Māori Unistart Course, offered by The University of Waikato, they will also be enrolled in the Te Reo Māori paper which will count toward Tertiary study.

Course Entry

All 28 credits from Level 3 Te Reo Māori or at the discretion of the Head of Faculty Māori.

Cost

There is no cost for this course.

Standards offered in course		Int/Ext	Lit (R/W)	Credits	UE Approved
91803 (V1)	Te tātari i te kōrero ohorere hei whakaputa i te kōrero tene	Int		3	Y
91804 (V1)	Te tātari i te ahunga o te reo	Ext	W	3	Y
91805 (V1)	Te whakatairite i ngā putanga pūrākau	Int	W	4	Y
91807 (V1)	Te whakarite i te whaikōrero rangatira	Int		5	Y
91808 (V2)	Te whakaoti tuhinga	Ext	W	3	Y
91810 (V1)	Te tūhura i te reo takitaki	Int		4	Y
91817 (V1)	Te whakarite i te rautaki whakawhanake reo	Int	W	4	Y