



WHANGĀREI BOYS' HIGH SCHOOL

DEVELOPING BOYS INTO FINE MEN

CURRICULUM GUIDE

YEAR 12



2021

wbhs.school.nz

KEY DATES

2020

Wed	29	July	Subject Selection Evening 5:30pm - 7:30pm For students in Years 9 - 12 selecting 2021 subjects Senior staff, Head of Faculty staff, and Deans will be available to discuss subject selection with students and parents/cargivers
Thurs	30	July	Year 8 Open Evening 4:30pm - 7:00pm For students and parents/cargivers Tours will commence at 4:30pm, and the formal presentation will be from 6:00pm - 7:00pm Subject displays will be in the School Hall
Wed	5	Aug	Final day for online subject selection via parent portal - for Years 9 - 12 students selecting 2021 subjects
Wed - Thurs	19 - 20	Aug	Year 8 Enrolment Interviews in the School Hall - bookings are made through the School Office

2021

Tue - Thurs	19 - 21	Jan	Years 9 – 13 Deans available for subject consultation for all returning students and new enrolments
Tue	26	Jan	Years 9 & 13 students attend school Powhiri at 9.00am Years 10 – 13 Deans available at 11.00am for course changes
Mon	1	Feb	All students attend school

USEFUL WEBSITES

Career Central – www.careercentral.school.nz

Vocational Pathways – www.youthguarantee.net.nz

Careers New Zealand – www.careers.govt.nz

Occupation Outlook app – www.occupationoutlook.mbie.govt.nz

Just the Job – www.justthejob.co.nz

Student loans and allowances – www.studylink.govt.nz

Fees Free, Tertiary Education Committee – www.feesfree.govt.nz



YEAR 12 DEANS' LETTER



There are no compulsory subjects in Year 12 and progression/admission to Year 12 courses depends on students meeting the criteria of each subject.

Students at this year level study six subjects. During this year students may also start working towards University Entrance by obtaining the required 5 reading and 5 writing literacy credits in various language rich subjects. However, we realise that university is not the pathway for all students. There are many courses, apprenticeships and other trade related areas students can, and often do, move on to. These may involve work placements throughout the year in areas of interest to ascertain suitability.

In order to achieve NCEA Level 2, students must gain at least 80 credits from either Achievement Standards or Unit Standards. 60 of the 80 credits must be at Level 2 or above, plus 20 credits from Level 1 or above. The Level 1 literacy and numeracy requirements must also be met (a minimum of 10 literacy credits and 10 numeracy credits at Level 1 or above).

Students may also have their NCEA Endorsed with either Excellence or Merit. To do this, they must achieve 50 credits at Excellence (for Excellence) or 50 credits at either Merit or Excellence (for Merit).

Individual subjects may also be Achieved with Endorsement. This requires that the student, in the subject, and in that year, gains:

- 14 or more credits at Merit or Excellence
- At least 3 credits must come from externally assessed standards and 3 from internally assessed standards. This does not apply to Physical Education, Religious Studies or Level 3 Visual Arts.

It is essential that students consider the qualification(s) they wish to gain during their secondary schooling. Combinations of subjects may lead to NCEA Level 2 and National Certificates on the NZQA Qualification Framework.

During subject selection, guidance is available from your Whanau Teachers, Deans, Subject Teachers, and Careers.

YEAR 12 DEANS



YEAR 12 ASSESSMENT INFORMATION

Grades that can be awarded for each Achievement Standard are:

- Achieved with Excellence
- Achieved with Merit
- Achieved
- Not Achieved

If a student meets the standard they receive the credits regardless of the grade awarded.

For most Unit Standards a student will receive the following awards:

- Achieved
- Not Achieved

For all assessment matters refer to the Senior Assessment Booklet updated and produced each year for distribution to senior students.

NEW ZEALAND QUALIFICATIONS AUTHORITY (NZQA)

NZQA administers the National Qualifications Framework (NQF), which is a system designed to recognise the attainment of knowledge, understanding and skills by all people in New Zealand. Framework qualifications are quality assured and nationally recognised.

Learners who register on the Framework are able to accumulate credits over time and at their own pace as they work towards a qualification.

NATIONAL CERTIFICATE OF EDUCATIONAL ACHIEVEMENT (NCEA)

NCEA is the main secondary school qualification in New Zealand for Year 12 students.

To gain an NCEA Level 2 qualification, a student must perform against pre-determined standards. These standards may be called Achievement Standards or Unit Standards. Each standard is allocated a certain number of credits. When a student has accumulated 80 credits, of which 60 are at Level 2 or above, plus 20 credits at Level 1 or above, and has met the Level 1 literacy and numeracy requirements (10 literacy credits and 10 numeracy credits), they may be awarded the NCEA Level 2 qualification.

VOCATIONAL PATHWAY AWARD

Gain 60 NCEA Level 2 credits relevant to your chosen pathway including 20 Level 2 credits from the industry related sector.



ACADEMIC COURSES 2021

POINTS TO NOTE	FACULTY	YEAR 9	YEAR 10	YEAR 11 - LEVEL 1	YEAR 12 - LEVEL 2	YEAR 13 - LEVEL 3
YEAR 9 Students study English, Science, Social Studies, Mathematics, Physical Education, Health and Materials Technology for the full year. Te Reo Māori and a choice of either Art, Drama or Music, are studied for half a year. Students also select two option subjects* which are studied for half a year.	The Arts	* Art * Drama * Music	* Art * Drama * Music	Art Digital Art Drama Music	Art Design Art Painting Photography Drama Music	Art Design + Art Painting + Photography + Drama + Music +
	Health & Physical Education	✓ Health ✓ Physical Education * Outdoor Education * Sports Specific Training	✓ Health ✓ Physical Education * Outdoor Education * Sports Specific Training	Health Physical Education Physical Well-being Outdoor Education Personal & Social Development	Health Physical Education Physical Well-being Outdoor Education Personal & Social Development	Health + Physical Education + Physical Well-being Outdoor Education Personal & Social Development
YEAR 10 Students study six compulsory subjects and three option subjects*. Please select a spare subject.	Languages	✓ English * Japanese * Languages via FarNet ✓ Te Reo Māori * Junior Māori Arts * Te Reo Rangatira ESOL	✓ English * Japanese * Languages via FarNet * Junior Māori Arts * Te Reo Rangatira ESOL	✓ English English Literacy Japanese Languages via FarNet Senior Māori Arts Te Reo Rangatira ESOL	English English Language & Communication Japanese Languages via FarNet Senior Māori Arts Te Reo Rangatira ESOL	English + English Language & Communication Japanese + Languages via FarNet Senior Māori Arts Te Reo Rangatira + ESOL
	Mathematics	✓ Mathematics	✓ Mathematics	✓ Mathematics with Externals Mathematics with Internals Mathematics Numeracy	Mathematics with Externals Mathematics with Internals	Calculus + Mathematics with Internals + Statistics +
YEAR 11 Mathematics and English are compulsory. Students study six subjects all year. Please select a spare subject.	Sciences	* Agriculture/Horticulture ✓ Science	* Agriculture/Horticulture ✓ Science	Agriculture/Horticulture Science Science Science Bridging Primary Industries	Agriculture/Horticulture Science Biology Chemistry Physics Science Bridging Forestry Primary Industries	Agriculture/Horticulture (FarNet) + Science + Biology + Chemistry + Physics + Forestry
	Social Sciences	* Start Your Own Business * The World of Money * Ancient Mythology ✓ Social Studies	* The World of Business * Money Wise * Classical Studies ✓ Social Studies	Accounting Business Studies Economics Classical Studies Geography Getting Work Ready History	Accounting Business Studies Economics Personal Financial Management Sales & Customer Service Tourism & Travel Classical Studies Geography History Psychology	Accounting + Business Studies + Economics + Personal Financial Management Sales & Customer Service Tourism & Travel Classical Studies + Geography + History + Psychology +
YEAR 12 Students select six subjects and a spare subject. It is important to identify subjects that lead to the trades and those that prepare students for University Entrance. It is possible to repeat Level 1.	Technology	* Design & Visual Communication * Digital Technology ✓ Materials Technology	* Design & Visual Communication * Digital Technology * Electronics * Product Design * Materials Technology	Design & Visual Communication Digital Technology Digital Literacy Electronic Products Product Design Advanced Engineering Advanced Woodwork Engineering Trade Academy	Design & Visual Communication Digital Technology Electronic Products Product Design Pre-trade Engineering & Automotive Pre-trade Woodwork Engineering Trade Academy	Design & Visual Communication + Digital Technology + Electronic Products Product Design Pre-trade Engineering & Automotive Pre-trade Woodwork
	SUPPORTED LEARNING	Extra learning support in a safe environment for those who do not cope with the structure of secondary school.				

These subjects are compulsory * Option subjects + Approved subjects for University Entrance

FarNet is learning via the internet and ZOOM. It is similar to Correspondence but with more tutor and class interaction. Students also receive one-on-one assistance from a trained teacher.



VOCATIONAL PATHWAYS

Creative, Cultural & Recreational Industries

- Actor
- Advertising Executive
- Animator
- Artist
- Copywriter
- Fashion Designer
- Graphic Designer
- Musician
- Photographer
- Publisher
- Stage/Set Designer
- Web Designer

Health, Community & Social Industries

- Ambulance Officer
- Chiropractor
- Counsellor
- Dentist
- Doctor
- Educator
- Nurse
- Osteopath
- Pharmacist
- Physiotherapist
- Surgeon
- Social Worker

Services Industries

- Aviation
- Bar Manager
- Baker
- Chef
- Customs Officer
- Firefighter
- Hairdresser
- Hospitality Worker
- Cleaner
- Police Officer
- Retail Salesperson
- Hotel/Restaurant Manager
- Travel Agent

Primary Industries

- Animal Attendant
- Beekeeping
- Dairy Farmer
- Ecologist
- Forestry
- Fishery Officer
- Horticultural Worker
- Landscape Gardener
- Marine Biologist
- Microbiologist
- Winemaker
- Veterinarian

Construction & Infrastructure Industries

- Architect
- Builder
- Carpenter
- Driller
- Electrician
- Glazier
- Mining
- Planner
- Plumber
- Roading
- Roofing
- Surveyor

Manufacturing, Engineering, Logistics & Technology Industries

- Automotive
- Boat Builder
- CAD Operator
- Designer
- Truck Driver
- Engineer
- Fabrication
- Machine Operator
- Photographer
- Fork-lift Operator
- Programmer
- Technician
- Telecommunications
- Website Developer



Note: English and Mathematics are compulsory until NCEA Level 1.
It is important to include English, Mathematics and Science for most career options.

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|-------------------------|-----------------|----------------------|----------------------------|
| • Drama | • Media Studies | • DVC | • Maths |
| • Dance | • Art Design | • Science | • Biology |
| • Māori Performing Arts | • Art | • Digital Technology | • Outdoor Education |
| • Music | • Photography | • Physical Education | • Sales & Customer Service |

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|-------------|-------------|------------------|--------------|
| • Science | • Physics | • Social Studies | • Psychology |
| • Health | • Biology | • History | • Statistics |
| • Chemistry | • Language | • Psychology | |
| • Maths | • Geography | • Economics | |

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|----------------------------|--------------|----------------------|---------------|
| • Business Studies | • Accounting | • Languages | • Hospitality |
| • Economics | • Geography | • Digital Technology | • Psychology |
| • Sales & Customer Service | • Tourism | • Science | |

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|--------------------------------|--------------|----------------------|
| • Agriculture/
Horticulture | • Chemistry | • Primary Industries |
| • Economics | • Accounting | • Biology |
| • Science | • Forestry | • Business Studies |

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|-------------|--------------|----------------------------|-------------------------|
| • Woodwork | • Automotive | • Geography | • Language Rich Subject |
| • DVC | • Science | • Sales & Customer Service | • Calculus |
| • Metalwork | • Physics | • Digital Technology | |
| • Maths | • Chemistry | | |

- | | | | |
|-------------|----------------------|-------------------------|---------------|
| • Maths | • Physics | • Language Rich Subject | • Woodwork |
| • Sciences | • Chemistry | • Geography | • Calculus |
| • Metalwork | • Digital Technology | • Automotive | • Electronics |



ADDITIONAL PATHWAYS OF LEARNING

FARNET

FarNet is available to domestic and international students. Students study via a mix of the internet and Google Hangout lessons with a distance tutor. FarNet is available where students have a clash of two timetabled subjects and both compliment their learning pathway. FarNet may also be available where Whangarei Boys' High School is not offering a subject that interests the student eg a Language.

Once a week the boys converse online with their tutor and students in other schools. Other learning activities are accessed online during the rest of the timetabled classes.

TE KURA (THE CORRESPONDENCE SCHOOL)

This is offered to students online who have New Zealand Citizenship and are wanting a subject where Whangarei Boys' High School does not have a class. Boys work in a supervised classroom and have access to one-on-one teacher assistance.

Te Kura and FarNet students need to meet pre-requisites and must be self-directed.

Contact persons: Mrs Miller & Deans

GATEWAY

This is structured workplace learning, mostly for students in Years 12 and 13. They experience an unpaid placement in a work place which interests them for one day each week for six to ten weeks. The work placement may occur during the school holidays. Boys should express their interest in a Gateway placement when they select their subjects.

Examples are:

- Trades Engineering
- Retail
- Electrical
- Plumbing
- Sport & Recreation
- Building
- Computing
- Automotive

Contact persons: Mrs Draper & Deans

TRADE ACADEMIES

Whangarei Boys' High School has opportunities in the Trades Academies available in Engineering, Cookery, Automotive, Civil Construction, Design, and Primary Industries.

The fulltime L1 or L2 Engineering Trade Academy (ENAC) is delivered onsite at Whangarei Boys' High School. Boys are enrolled in English and Mathematics with the remainder of the time designing and building Engineering and Automotive projects.

The other academies are one or two days delivered at NorthTec, The Design School or Wilson Trade Academy (new for 2021).

To be considered for a place in a Trades Academy boys need to have a conversation with one of their Deans or a Trades Academy Coordinator and select Pre-trade Engineering & Automotive, and Business Studies or Personal Financial Management and Mathematics, English and Science.

Students accepted into the **Primary Industries Trade Academy** study aspects of the industry as a whole in class but also have many opportunities for active learning in areas such as Pest Control, Fencing, Chainsaw Use & Safety, Work Safe & First Aid, Riparian Planting, and Pollution Control. To be considered for a place in the Primary Industries Academy boys must select the Primary Industry subject and show a genuine interest in this industry.

Contact persons: Mrs P. O'Leary, Miss D. Thompson, & Deans



ARTS FACULTY

ART DESIGN (12ARD)

Students will learn and develop a range of skills from drawing and rendering through to graphic and 3-dimensional computer aided design. An interesting range of projects are designed to extend students and develop creative problem solving skills. Students will prepare a workbook and present a folio of work for external moderation.

Entry requirement: Level 1 Art, Level 1 Digital Art or HoD discretion. An understanding of basic computing skills in particular Photoshop/ 3D modelling programs an advantage. No changes into Art Design after Week 4.

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91310	Use drawing methods to apply knowledge of conventions appropriate to design	I	4
91315	Develop ideas in a related series of drawings appropriate to established design practice	I	4
91320	Produce a systematic body of work that shows understanding of art making conventions and ideas within design	E	12

Cost: \$51 to be paid at the start of Term 1. This covers a take-home component of \$31 and printing costs of \$20.

Contact persons: Mrs V. Luders & Mr M. Allen

ART PAINTING (12ARP)

Students will develop a wide range of skills and traditions in Art.

Entry requirement: NCEA Level 1 Art, Level 1 Digital Art or HoD discretion

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91311	Use drawing methods to apply knowledge of conventions appropriate to painting	I	4
91316	Develop ideas in a related series of drawings appropriate to established painting practice	I	4
91321	Produce a systematic body of work that shows understanding of art making conventions and ideas within painting	E	12

Cost: \$8 take-home component for students carrying on from year 11 and \$18 for students new to the subject to cover the cost of an art folio. There may be costs to help pay for field trips.

Equipment recommended: Students are advised to have their own set of art materials for homework

Contact person: Mrs V. Luders

DRAMA (12DRA)

This course develops student's understanding of theatre and the skills associated with performing. Students will develop self-management in their learning and pre-paring roles. They will have the opportunity to create their own drama and to perform key roles within a full-length play. There will also be the opportunity to take part in the University of Otago, Sheilah Winn Shakespear Festival.

Entry requirement: At least 9 credits at NCEA Level 1, which may be waived at the discretion of the HoD where a student has demonstrated an appropriate level of performance skills.

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
R 91213	Apply drama techniques in a scripted context	I	4
91214	Devise and perform a drama to realise an intention	I	5

Level 2:	Title of Standard:	I or E *	Cr *
R 91216	Use complex performance skills associated with a drama form or period	I	4
R 91218	Perform a substantial acting role in a scripted production	I	5
W 91219	Discuss drama elements, techniques, conventions and technologies within live performance	E	4
R W 91215	Discuss a drama theatre form or period with reference to a text	E	4

The external examinations are optional and offer the opportunity for students to gain endorsement in Drama. Internal standard 91216 is offered as an extra opportunity and to prepare students for the external examination 91215.

Cost: There will be a further charge necessary to help pay for viewing performances throughout the year

Contact person: Ms F. Churcher

MUSIC (12MUS)

This is an academic course. It involves solo and group performances, continued development of composition and aural skills, combined with an in-depth study of musical works and score reading.

Entry requirement: Ideally, students should have at least three years of instrumental tuition. Students should continue to take lessons throughout the year and participation in performance groups is encouraged. Students should be able to read music notation. Entry at the HoD Music's discretion where adequate music skills are demonstrated.

Achievement Standards selected from:

Level 2:	Title of Standard:	I or E *	Cr *
91270	Performing two substantial pieces of music as a featured soloist	I	6
91274	Perform a substantial piece of music as a featured soloist on a second instrument	I	3
91272	Demonstrate ensemble skills by performing a substantial piece of music as a member of a group	I	4
91271	Compose two substantial pieces of music	I	6
91275	Demonstrate aural understanding through written representation	E	4
91276	Demonstrate knowledge of conventions in a range of music scores	E	4
91277	Demonstrate understanding of two substantial contrasting music works	E	6
91273	Devise an instrumentation for an ensemble	I	4
91278	Investigate an aspect of New Zealand music	I	4

The external exams are optional and offer the opportunity to gain Endorsement in Music.

Contact person: Ms V. Hill

PHOTOGRAPHY (12PHO)

An introductory course for Photography investigating artist models, techniques and digital photography skills. Students will prepare a workbook and present a folio of work for external moderation.

Entry requirement: Level 1 Art, Level 1 Digital Art or HoD discretion

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91312	Use drawing methods to apply knowledge of conventions appropriate to photography	I	4
91317	Develop ideas in a related series of drawings appropriate to established photography practice	I	4
91322	Produce a systematic body of work that shows understanding of art making conventions and ideas within photography	E	12

Cost: Students are expected to have their own SLR Digital camera or hire a camera from the Art Department. Charge for camera hire is \$50 with \$25 bond being refundable.

\$70 payable at the start of Term 1. This covers a take-home component of \$50 and printing costs of \$20.

Contact persons: Mrs C. Fleming & Mrs V. Luders

HEALTH & PHYSICAL EDUCATION FACULTY

HEALTH (12HLT)

This course develops the concept of hauora/well-being as we learn to explore a wide variety of health issues that face us in everyday life. Students will learn life skills and be equipped to move into people related careers.

Students will implement an action plan in the form of a health promoting project involving independent research within the community. They will also examine one concept of stress, safety for themselves and others, sexuality issues, and the effect of alcohol on driving.

Entry requirement: HoD discretion

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91237	Take action to enhance an aspect of people's well-being within the school or wider community	I	5
91239	Analyse issues related to sexuality and gender to develop strategies for addressing the issues	I	5
91235	Analyse an adolescent health issue	E	5
91236	Evaluate factors that influence people's ability to manage change	I	5

Contact person: Mrs D. Cooper

MULTI-LEVEL OUTDOOR EDUCATION (OED Multi)

This course is aimed at students looking for outdoor adventure experiences with extra support. It has a focus on student development and building confidence. It is designed for students wanting to pursue outdoor education and who may find that the other OED options move too quickly in terms of covering content.

Entry requirement: Open to all senior year levels - HoD discretion

Unit Standards offered:

Level 1:	Title of Standard:	I or E *	Cr *
20152	Experience and complete Abseiling sessions	I	1

* E= External
UE Lit:

I=Internal
R = Reading

Cr= Credits
W = Writing

RW = Both



Level 1:	Title of Standard:	I or E *	Cr *
20818	Demonstrate kayaking skills on sheltered or slow moving water	I	2
20210	Experience rock climbing	I	1
448	Experience a caving trip	I	1
20141	Complete beginner orienteering courses	I	1
90964	Demonstrate quality movement in the performance of a physical activity	I	3
Level 2:			
467	Demonstrate personal and social development through participation in adventure-based learning	I	3
431	Navigate in good visibility on land	I	3
426	Experience camping	I	3
444	Demonstrate basic rock climbing movement	I	1

Cost: \$250

Contact persons: Mr S. Huurnink & Mr J. Thomas

OUTDOOR EDUCATION (12OED)

This course should provide learning experiences to develop personal and social skills for moving safely in a variety of settings.

These learning experiences should also develop the understandings and skills which underpin successful outdoor activity including the ability to deal with emergencies and an increase in the awareness of the need for conservation of the environment.

Outdoor Education activities include but are not limited to: abseiling, rock climbing, kayaking, caving, outdoor navigation, camping, Adventure Based Learning (ABL) and Outdoor First Aid.

Entry requirement: HoD discretion - a high standard of responsible behaviour is required and a genuine interest in outdoor education activities. Students do not need to have completed Level 1 OED to enter this course.

Unit Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
431	Navigate in good visibility on land	I	3
20159	Gather and apply weather information to an outdoor recreation activity	I	2
91330	Demonstrate performance of a physical activity in an applied setting	I	4
426	Experience camping	I	3
20157	Top rope rock climbing and abseiling	I	3
91334	Demonstrate social responsibility	I	3
28392*	SCUBA dive in open water (optional only, cost: \$740 extra)	I	7

*A SCUBA diving course will be available as an optional extra and will incur a cost of \$740. It will be organised and supervised by WBHS staff and delivered by DiveHQ outside of school hours. Successful participants will receive Open Water Dive certification.

Cost: \$230

To ensure the safe delivery of the trips the school invests in high quality gear and qualified, experienced staff. There is an associated cost to each student for the activities based course of \$230 for the year long programme. This cost will cover transport, safety equipment, food during overnight trips and qualified, experienced staff who will ensure the safe delivery of all trips.

For students or families where there may be an issue of financial hardship, there are options to pay this amount over time or have a subsidy through the hardship fund. Please contact Yvonne Nees (y.nees@wbhs.school.nz) if you would like to organise a payment plan, or Mike Elliot (m.elliott@wbhs.school.nz) for access to the hardship fund.

Full payment, or a payment plan to pay the full amount by the end of Term 1, will need to be processed by the end of Week 3, Term 1.

**An alternate free course is offered:
Achievement/Unit Standards offered:**

Level 2:	Title of Standard:	I or E *	Cr *
20159	Gather and apply weather information to an outdoor recreation activity	I	2
91334 (2.8)	Consistently demonstrate social responsibility through applying a social responsibility model in physical activity	I	3
91333 (2.7)	Analyse the application of risk management strategies to a challenging outdoor activity	I	3
27299	Describe benefits of participation in recreation in the local community	I	2
8567	Access sources of information for use in recreation	I	2
91282	Describe personal involvement in a social action related to rights and responsibilities	I	5

This programme has been designed to avoid cost to students, and has a large theoretical component. Unfortunately, there are no trips due to cost constraints.

Cost: Free

Contact persons: Mr S. Huurnink & Mr J. Thomas

PERSONAL & SOCIAL DEVELOPMENT (12PSD)

This course is an alternative course to Health. It supports students in their ability to develop personal well-being skills significant for becoming an up and coming fine man within our community. Interpersonal skills that support an individual's ability to work co-operatively with others are improved and challenged in each unit offered. A variety of health promotion agencies such as ACC Mates and Dates; Police programme Love Me Not; Upstander workshops; Drug Awareness campaigns will support the units we complete.

Students will be supported in taking responsibility for planning their own learning programme.

Entry requirement: HoD approval

Unit Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
7118	Manage your own learning programme	I	3
7117	Produce a plan to enhance own learning	I	2
3492	Write a short report	I	3
7123	Apply a problem solving method to a problem	I	2

Achievement Standard offered:

91236	Evaluate factors that influence change	I	5
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Contact person: Mrs D. Cooper

PHYSICAL EDUCATION (12PED)

The course consists of both practical and theoretical elements and offers a comprehensive understanding of Physical Education at this level.

Entry requirement: Achieved in all Level 1 Standards and HoD approval

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91327	Examine the role and significance of physical activity in the lives of young people in New Zealand	I	3
91328	Demonstrate understanding of how and why biophysical principles relate to the learning of physical skills	I	5

Level 2:	Title of Standard:	I or E *	Cr *
91329	Demonstrate understanding of the application of biophysical principles to training for physical activity	I	4
91330	Perform a physical activity in an applied setting	I	4
91331	Examine the significance for self, others and society of a sporting event, a physical activity, or a festival	I	4

Contact persons: Mr N. Smith & Mr J. Thomas

PHYSICAL WELL-BEING (12PWB)

This course aims to develop the knowledge, understanding, skills and attitudes needed to maintain and enhance personal health and physical well-being.

Entry requirement: HoD discretion

Achievement Standard offered:

Level 2:	Title of Standard:	I or E *	Cr *
91330	Demonstrate performance of a physical activity in an applied setting	I	4

Unit Standards offered:

6571	Demonstrate relevance of principles of nutrition and health	I	2
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Level 3:	Title of Standard:	I or E *	Cr *
30636 (v1)	Demonstrate knowledge of the human body and its movement during exercise and stretching	I	7
30447 (v2)	Demonstrate basic knowledge of anatomical structures and physiological responses to exercise	I	5

Contact persons: Mr I. Morgan & Mr J. Thomas

LANGUAGES FACULTY

ENGLISH (12ENG)

A modular study of language and literature focusing on the requirements of the standards listed below.

- Writing skills (Expository and creative)
- Novel, poetry, short story and film studies
- Role-play/speaking

Entry requirement: 15 credits from Achievement Standards at Level 1, including one external Achievement Standard, or at HoD discretion

NB: In 2016 The University of Auckland introduced their Academic English Language Requirement (AELR). Applicants must gain a minimum of 17 credits in English at NCEA Level 2 and/or Level 3

Achievement Standards offered:

	Level 2:	Title of Standard:	I or E *	Cr *
R W	91098	Analyse specified aspect(s) of studied written text(s), supported by evidence	E	4
R W	91100	Analyse significant aspect(s) of unfamiliar written text(s) through close reading, supported by evidence	E	4
W	91101	Produce a selection of crafted and controlled writing	I	6
	91102	Construct and deliver a crafted and controlled oral text	I	3
	91104	Analyse significant connections	I	4
	91107	Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence	I	3

Contact person: Mr M. Nogher



ENGLISH LANGUAGE & COMMUNICATION (12ELC)

This course offers a mix of Achievement Standards and Unit Standards at Level 2. A significant part of the course is project based and incorporates a wide range of skills required in the workplace, including:

- Research
- Reading texts for information
- Report writing
- Speaking to an audience

This course will prepare students for both English courses available at Level 3. It offers the opportunity to work cross-curricular with other subjects that the student is taking in Year 12.

Entry requirement: Students will be selected at HoD discretion

NB: In 2016 The University of Auckland introduced their Academic English Language Requirement (AELR). Applicants must gain a minimum of 17 credits in English at NCEA Level 2 and/or Level 3.

Achievement Standards offered:

	Level 2:	Title of Standard:	I or E *	Cr *
W	91101	Produce a selection of crafted and controlled writing	I	6
	91102	Construct and deliver a crafted and controlled oral text	I	3
R	91105	Research and evaluate texts. Use information literacy skills to form developed conclusion(s)	I	4
R	91106	Develop personal responses to a selection of texts	I	4
	91107	Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence	I	3

Contact person: Mr M. Nogher

ESOL (12ESL)

English for Speakers of Other Languages (ESOL) assessments are conducted in English, which must not be the student's first language.

English Language (EL) Unit Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
28052		Demonstrate understanding of detailed spoken instructions (EL)	I	5
28056		Read and understand texts on familiar topics (EL)	I	5
28057		Read and understand texts for practical purposes (EL)	I	5
28064		Present information on a familiar topic (EL)	I	5
28068		Write texts on familiar topics (EL)	I	5
28069		Write texts for practical purposes (EL)	I	5

Cost: IELTS examination \$365 (optional)

Contact person: Mr R. Atkinson

JAPANESE (12JAP)

The Japanese Level 2 course continues to build on the Level 1 course, with a focus on language skills, communication functions and Japanese culture.

Entry requirement: Successful completion of the Year 11 course and/or HoD discretion

Achievement Standards offered:

	Level 2:	Title of Standard:	I or E *	Cr *
91133		Demonstrate understanding of a variety of spoken Japanese texts on familiar matters	E	5

	Level 2:	Title of Standard:	I or E *	Cr *
91134		Interact using spoken Japanese to share information and justify ideas and opinions in different situations	I	5
91135		Give a spoken presentation in Japanese that communicates information, ideas and opinions	I	4
91136		Demonstrate understanding of a variety of written and/or visual Japanese text(s) on familiar matters	E	5
91137		Write a variety of text types in Japanese to convey information, ideas, and opinions in genuine contexts	I	5

Contact person: Mrs D. Williamson

LANGUAGES via FarNet (12LANf)

These courses cater for students who wish to study languages that are not currently available in WBHS, or who wish to gain qualifications in their first or second language. Dependent on their ability, students may complete Level 2 internal and external assessments. FarNet offers a range of courses in French, German, Korean, Mandarin, Samoan, Spanish and Tongan. Please contact me if you require information about other languages you might wish to study.

Boys study in a supervised class with access to the required learning resources.

The course duration is mostly for a full year.

Cost: \$30 to be paid at the start of term 1 for access to Education Perfect as an online language resource used by FarNet tutors.

Contact person: Mrs D. Miller

SENIOR MĀORI ARTS (12SMA)

This course offers a combination of Māori Performing Arts standards, Māori Tourism, and Tikanga Māori standards. It is a composite Year 11 - 13 class and offers both numeracy and literacy standards.

Prior knowledge of Māori Performing Arts and Te Reo Māori is not essential, but is, to an extent, an advantage.

Unit Standards offered:

	Level 2:	Title of Standard:	I or E *	Cr *
27126		Describe, and explain the purpose of, pūrākāu (gods, demigods) in accordance with ngā kōrero tuku iho	I	3
27127		Describe, and explain the purpose of, pakiwaitara in accordance with ngā kōrero tuku iho	I	3
27129		Explain the use of karakia in accordance with tikanga	I	2
13363		Demonstrate knowledge and skills of waiata-ā-ringa	I	6
16054		Describe the life and achievements of a Māori leader	I	2
13371		Demonstrate knowledge and skills of haka	I	6
13359		Demonstrate knowledge and skills of mōteatea	I	6

Cost: \$10 for materials

Contact person: Mr W. Cooper

TE REO RANGATIRA (12TRR)

This course is an in depth study of Te Reo Māori with greater emphasis on oral and written skills. These will include:

- Oral fluency and communication skills
- Reading comprehension and greater understanding
- Research and essay skills
- A closer look at customs and protocols of classical and modern life



Entry requirement: Successful completion of Year 11 and/or HoD discretion. This course also includes a range of Unit Standards based on listening, speaking and writing on a range of topics.

Achievement Standards offered:

	Level 2:	Title of Standard:	I or E *	Cr *
	91284	Whakarongo (Listening)	I	6
W	91287	Tuhituhi (Writing)	I	6
R W	91288	Waihanga Tuhi (Creative writing)	I	4
R	91286	Pānui (Reading)	I	4
	91285	Kōrero (Speaking)	I	6

Māori Performing Arts Unit Standards: Students are able to select Level 1-3 MPA Unit Standards where applicable. These will be covered in the senior Te Reo classes unless modified since date of print.

Contact person: Mr W. Cooper

MATHEMATICS FACULTY

MATHEMATICS WITH EXTERNALS (12MAE)

12MAT is a course of study working towards six Level 2 Achievement Standards in Mathematics and Statistics. Successful completion of this course will ensure that students have the skills required to continue on to the Level 3 Statistics and Calculus courses.

Entry requirement: A student must have gained Achievement Standards 91027, 91028 and two Level 1 internally assessed Mathematics standards. Entry may be at the discretion of the HoF.

Achievement Standards offered: (this may change slightly)

	Level 2:	Title of Standard:	I or E *	Cr *
	91261	Apply algebraic methods in solving problems	E	4
	91262	Apply calculus methods in solving problems	E	5
	91257	Apply graphical methods in solving problems	I	4
	91267	Apply probability methods in solving problems	E	4
	91264	Use statistical methods to make an inference	I	4
	91259	Apply trigonometric relationships in solving problems	I	3

Equipment recommended: A calculator, preferably a Casio 9750 Graphic calculator

Contact person: Mr A. Kitson

MATHEMATICS WITH INTERNALS (12MAI)

12MAB offers Level 2 standards that are all internally assessed. It is for students who need time to develop their understanding and skills. This course may possibly lead to Year 13 Statistics (13MAS) if a student does well in all of the assessments and at the Mathematics HoF's discretion.

Entry requirement: Students who have gained 12 or more credits in Level 1 Mathematics and Statistics but have not achieved eligibility for the 12MAT course in Mathematics. Entry may be at the discretion of HoF.

Achievement Standards offered: (this may change slightly)

	Level 2:	Title of Standard:	I or E *	Cr *
	91256	Apply coordinate geometry in solving problems	I	2
	91257	Apply graphical methods in solving problems	I	4
	91258	Apply sequences and series in solving problems	I	2

	Level 2:	Title of Standard:	I or E *	Cr *
	91259	Apply trigonometric relationships in solving problems	I	3
	91260	Apply network methods in solving problems	I	2
	91268	Investigate situations involving elements of chance using a simulation	I	2
	91269	Apply systems of equations in solving problems	I	2

Equipment recommended: A calculator, preferably a Casio 9750 Graphic calculator

Contact person: Mr A. Kitson

SCIENCE FACULTY

AGRICULTURE/HORTICULTURE SCIENCE (12AHS)

More academic than Level 1, involving research, investigation and reporting skills.

Entry requirement: Achievement in Year 11 Agriculture/Horticulture Science or at discretion of TiC

Achievement and Unit Standards selected from:

	Level 2:	Title of Standard:	I or E *	Cr *
	91290	Describe physical factors of the environment and techniques used to modify these for plant production	E	4
	91289	Carry out practical investigation with supervision	I	4
	US21039	Demonstrate knowledge of the development of organic horticulture	I	10
	91296	Produce a landscape plan	I	4
	91293	Demonstrate understanding of livestock reproductive techniques in commercial production in New Zealand	I	4

The inclusion of some Unit Standards will be dependent on the abilities and interests of the students

Cost: There may be transport costs for field trips

Contact person: Mr D. Jennings

BIOLOGY (12BIO)

The course will cover theory and practical aspects of Biology with a total of 16-20 credits.

Entry requirement: 12 credits from Level 1 Science (must include the Biology Achievement Standard 90948) or at discretion of TiC

Achievement Standards offered:

	Level 2:	Title of Standard:	I or E *	Cr *
	91156	Demonstrate understanding of life processes at the cellular level	E	4
	91157	Demonstrate understanding of genetic variation and change	E	4
	91159	Demonstrate understanding of gene expression	E	4
	91153	Carry out a practical investigation in a biology context	I	4
	91155	Demonstrate understanding of adaptation of plants or animals to their way of life (optional)	I	3
	91158	Investigate a pattern in an ecological community	I	4

Cost: There may be transport costs for field trips

Contact person: Mrs R. Thornton

CHEMISTRY (12CHE)

The content of this course is based on Quantitative Analysis, Redox Reactions, Organic Chemistry, Chemical Reactivity and Bonding.

Entry requirement: 14 credits from Level 1 Science (must include Chemistry Achievement Standard 90944, 90930 and Physics Achievement Standard 90940). It is recommended that students achieve at merit or better in Level 1 Acids and Bases. Those who do not qualify for the entry requirement need permission from TiC.

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91910	Carry out practical investigation into a substance present in a consumer product using quantitative analysis	I	4
91911	Carry out an investigation into chemical species present in a sample using qualitative analysis	I	3
91164	Demonstrate understanding of bonding, structure, properties and energy changes	E	5
91165	Demonstrate understanding of the properties of selected organic compounds	E	4
91166	Demonstrate understanding of chemical reactivity	E	4
91167	Demonstrate understanding of oxidation-reduction	I	3

Cost: There may be costs for resources.

Contact person: Mr C.M. Lai

FORESTRY (12FOR)

This course is offered in partnership with the Forestry Industry Training Organisation. Some units are assessed by WBHS. The First Aid course and Chainsaw course are run by an external provider. The course credits to the National Certificate in Forestry. Students will be offered the opportunity of applying for a place in the Primary Industries Academy which provides extra field trips, an extended Gateway placement and the payment of most fees.

Entry requirement: 15 credits Year 11. A selection of the units below will be offered, including Chainsaw Safety and Operation, First Aid and Safety in the Workplace

Unit Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
22997	Demonstrate knowledge of principles of commercial forestry	I	5
6916	Demonstrate knowledge of the approved code of practice relating to chainsaw use	I	5
6917	Demonstrate basic chainsaw operation	I	5
17769	Demonstrate knowledge of general health, safety and environmental requirements in forestry	I	6
26551	Provide first aid for life threatening conditions	I	2
26552	Demonstrate knowledge of common first aid conditions and how to respond to them	I	1
6951	Demonstrate knowledge of selecting plantation trees	I	4
1227	Demonstrate knowledge of plantation forest harvesting	I	5
Level 3:			
1256	Demonstrate knowledge of ground based log extraction	I	4

All students are encouraged to participate in extra learning and assessment opportunities which are available through short courses and field trips.

Contact person: Mrs B. Van Rooyen

PHYSICS (12PHY)

A modular study of Physics designed for students who wish to pursue Physics in Year 13 or extend their skills base as a pre-requisite for other studies.

Entry requirement: 12 credits in Year 11 Science which must include AS90940 Mechanics, AS90935 Physics Investigation and 4 credits from Year 11 Mathematics which include AS91027 Algebra. It is recommended that students achieve at merit or better in Level 1 Mechanics before considering Level 2 Physics.

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91168	Take measurements of physical quantities and analyse data graphically to determine a relationship	I	4
91170	Demonstrate understanding of waves	E	4
91171	Demonstrate understanding of mechanics	E	6
91172	Demonstrate understanding of atomic and nuclear physics	I	3
91173	Demonstrate understanding of electricity and electromagnetism	E	6

Cost: There may be cost for resources.

Contact person: Mr S. Kumar

PRIMARY INDUSTRIES (12PIN)

Students will gain a deeper understanding of the technical aspects of the primary industries as preparation for employment and further study in that sector of the economy. The class will study a selection of standards from the list below. All students will be invited to apply for a place in the Primary Industries Academy and so undertake a relevant placement during the year. Achievement will count towards NCEA Level 2 plus the New Zealand Certificate in Primary Industry Skills (Level 2). Students in 12PIN will have an option of choosing Livestock farming, Dairy farming or Horticulture.

Entry requirement: Level 1 Primary Industries or at TiC discretion

Unit Standards selected from:

Level 2:	Title of Standard:	I or E *	Cr *
19116	Demonstrate knowledge of livestock behaviour and animal welfare	I	2
4	Maintain hand tools and service small engines used in horticulture	I	5
21556	Control weeds under supervision	I	2
22174	Demonstrate knowledge of soils and fertilisers	I	5
2803	Maintain a documented work record of horticultural activities	I	5
23540	Demonstrate knowledge of hazards, hazard control, and the consequences of injury in a rural workplace	I	5
23541	Locate hazards, describe safety procedures, and demonstrate safe work practices in a rural workplace	I	5
20574	Identify plants	I	5
22191	Demonstrate knowledge of factors which influence plant growth	I	5
2765	Plant trees or shrubs under close supervision	I	5
19112	Check and report on livestock	I	4
19114	Assist with handling and treatment of livestock	I	6



Level 2:	Title of Standard:	I or E *	Cr *
19106	Assist with handling livestock when moving and drafting, and when livestock are distressed	I	4

Cost: There may be costs associated with field trips

Contact person: Mr D. Jennings

SCIENCE BRIDGING (12SCB)

This course provides a pathway for students wishing to continue with the Sciences in Year 12. It covers all four learning areas and is for boys interested in Science who are not entering specialised Science topics e.g. Physics. Theoretical and practical aspects will be covered.

Entry requirement: 8 credits from Year 11 Science (11SCI) or 8 credits from Year 11 Science Bridging (11SCB)

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91163	Demonstrate understanding of the chemistry used in the development of a current technology	I	3
91169	Demonstrate understanding of physics related to a selected context (electrical)	I	3
91160	Investigate biological material at the microscopic level	I	3
91153	Carry out a practical investigation in a biology context, with supervision	I	4
91189	Investigate geological processes in a New Zealand locality	I	4

Cost: There may be cost for resources

Contact person: Mrs L. Bourke-Heerikhuisen

SOCIAL SCIENCE FACULTY

ACCOUNTING (12ACC)

The emphasis at this level is on expansion of the Year 11 programme covering accounting systems in depth. The main focus of the course is on sole traders. Students will learn about trading businesses, the difference between cash and accrual based accounting, how to account for assets and liabilities, and how to maintain a perpetual inventory system.

Entry requirement: 12 credits from Level 1 Accounting

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91176	Prepare financial information for an entity that operates accounting subsystems	E	5
291177	Interpret accounting information for entities that operate accounting subsystems	E	4
91179	Demonstrate understanding of an accounts receivable subsystem for an entity	I	3
91386	Demonstrate understanding of an inventory subsystem for an entity	I	3
91481	Demonstrate understanding of a contemporary accounting issue for decision-making	I	4

Contact persons: Ms K. Price & Mr R. Sharma

BUSINESS STUDIES (12BUS)

This course builds on concepts taught in Level 1 Business Studies, with the focus at Level 2 being on large New Zealand business. Students will also have the opportunity to work with their peers on their own business project, whilst contributing funds to a community organisation of their choice.

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
90843	Demonstrate understanding of the internal operations of a large business	E	4
90845	Apply business knowledge to a critical problem(s) in a given large business context	E	4
90846	Conduct market research for a new or existing product	I	3
90847	Investigate the application of motivation theory in a business	I	4
90848	Carry out, review and refine a business activity within a community context with guidance	I	9

Contact persons: Ms K. Price & Mr. T. Yung

CLASSICAL STUDIES (12CLS)

Why take Classical Studies? It introduces so much of what we have inherited from the Greeks and Romans, such as law, philosophy, language, literature, history, drama, sports, politics, art, oratory, medicine, architecture, the sciences and astronomy.

In this course students will read the world's most famous story, discover the treasures of the buried city of Pompeii and learn valuable literacy skills.

Entry requirement: 12 credits from Year 11 Classics or similar subject.

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
R W	91200 Homer's Odyssey	E	4
R W	91201 Pompeian Art	E	4
R	91202 Eruption of Mt. Vesuvius and Pompeii	I	4
R	91204 A research topic of cultural comparisons	I	6

Contact person: Mr R. Burrows

ECONOMICS (12ECO)

This course focuses on macro-economics and explores New Zealand economic history. It deals with economic issues that affect the whole economy. In this course students will: understand how economic concepts and models provide a means of analysing contemporary New Zealand issues and understand how government policies and contemporary issues interact. The course is made up of four contemporary issues: Employment, Inflation, Growth and Trade.

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
W	91222 Analyse inflation using economic concepts and models	E	4
W	91223 Analyse international trade using economic concepts and models	E	4
W	91224 Analyse economic growth using economic concepts and models	E	4
	91225 Analyse economic unemployment using economic concepts and models	I	4
R	91227 Analyse how government policy and contemporary economic issues interact	I	6

Contact person: Ms K. Price



GEOGRAPHY (12GEO)

Students continue to develop skills and ideas introduced in the Level 1 course.

Topics covered include:

- Natural and cultural interaction and impacts in Tongariro National Park
- Crime patterns in Chicago
- The causes and occurrence of malaria on a global scale
- Research into natural and cultural interactions in the Tongariro National Park

Skills and concepts are further developed so that a wider skills bank is generated over the course of the year's study.

Entry requirement: 14 credits from Level 1 Geography, including Achievement Standard 91011 or 12 credits in Level 1 English (6 must be external) or HoD discretion

Achievement Standards selected from:

	Level 2: Title of Standard:	I or E *	Cr *
RW	91240 Demonstrate geographic understanding of a large natural environment	E	4
	91243 Apply geography concepts and skills to demonstrate understanding of a given environment	E	4
	91241 Demonstrate geographic understanding of an urban pattern	I	3
	91244 Conduct geographic research with guidance	I	5
	91246 Explain aspects of a geographic topic at a global scale	I	3

Cost: There may be a cost for fieldwork, maps and materials. Field trip to the Tongariro National Park.

Contact person: Mr J. Warren

HISTORY (12HIS)

Year 12 History focuses on the theme of conflict with students learning about the early explorers to New Zealand and around the world. Captain Cook: Hero or Villain.

A jump to the 20TH Century will see students exploring key conflicts of the Cold War such as the Cuban Missile Crisis and the outbreak of the Cold War.

Topics Studied will relate to:

- From Maui to Cook to Columbus
- Cold War or Hot Peace
- On the Brink: the Cuban Missile Crisis

Students will learn valuable skills in research, essay writing, and source analysis.

Achievement Standards offered:

	Level 2: Title of Standard:	I or E *	Cr *
91229	Carry out an inquiry of an historical event or place of significance to New Zealanders	I	4
91230	Examine an historical event or place of significance to New Zealanders	I	5
91231	Examine sources of an historical event that is of significance to New Zealanders	I	4
21232	Interpret different perspectives of people in an historical event that is of significance to New Zealanders	I	5
91231	Investigate sources of an historical event or place of significance to New Zealanders	E	4
91233	Examine the causes and consequences of a significant historical event	E	5

Cost: Field trip costs as applicable

Contact person: Mr R. Burrows

PERSONAL FINANCIAL MANAGEMENT (12PFM)

Personal Financial Management offers study in the area of consumer finance and money management in today's world. The course is designed to continue to educate students on a responsible personal management path. Students continue to develop their competencies in setting financial goals and personal budgets, taxes, debt and ways to avoid/reduce debt, and be able to demonstrate knowledge in investment and insurance policies. By the end of the course students will have further developed their knowledge that will set them firmly on the path to financial independence.

Unit Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
24695	Explain taxation and other deductions relating to personal income	I	2
24699	Make an informed decision relating to personal income and explain its consequences	I	2
24707	Set a personal financial goal and plan its implementation	I	3
28094	Produce a balanced budget and adjust the budget to reflect changing financial circumstances	I	3
28096	Evaluate and select insurance product types in relation to events for personal finances	I	3
28097	Evaluate and select personal banking products and services in relation to personal financial needs	I	3
28092	Analyse the effect of significant life events at different life stages on personal financial income	I	3

Contact persons: Ms K. Price & Mr R. Sharma

PSYCHOLOGY (12PSY)

Psychology is the scientific study of human thought, emotions and actions. It helps us understand how we and others behave and explores questions such as:

- Why do people harm others? Looking at aggression
- Why do people do bad things? Forensic psychology and criminal profiling
- How does culture influence behaviour? Sports psychology - Holistic psychology
- What is the nature of intelligence? Organisational psychology

Developing understanding in these human facets is part of what forms our empathy and skills for living our lives.

In this course students will be introduced to the big ideas around human behaviour and then use the scientific method to test theories.

Topics covered include:

- Biological researchers look at how chemical and neurological processes affect us
- Behaviourists look at how the environment conditions us
- Cognitive psychologists examine the mind as an information-processing machine
- Psychodynamic psychologists look at our hidden desires and impulses
- Humanists see people holistically as unique beings with the ability to reach our full potential

Entry requirement: 10+ credits in NCEA Level 1 English Achievement Standards or HoD discretion

Achievement Standards selected from:

Level 2:	Title of Standard:	I or E *	Cr *
91844	Examine approaches in psychology	I	6
91846	Examine and complete a psychological experiment with guidance	I	4
91847	Examine fields in psychological practice	I	5



Level 2:	Title of Standard:	I or E *	Cr *
91848	Examine ethical issues in psychological practice	I	3

Contact person: Mr D. Moore

SALES & CUSTOMER SERVICE (12SCS)

This class helps students move toward a qualification and employment in retail. Students will learn a variety of skills in this subject which will be of value to employers. These include selling and customer service skills, advanced communication skills and problem solving skills.

Entry requirement: Open entry at discretion of HoD/TiC

Additional qualification: New Zealand Certificate in Retail Level 2

Unit Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
57	Provide customer service in given situations	I	2
62	Maintain personal presentation in the workplace	I	2
1277	Communicate information in a specified workplace	I	3
11968	Knowledge and legislation applicable to the sale of goods and services	I	4
402	Demonstrate knowledge of the retail sector in New Zealand	I	2
405	Demonstrate knowledge of customer shopping and buying motives	I	3
11958	Demonstrate knowledge of stock management procedures and systems	I	4

Level 3:

376	Employ customer service techniques for differing customer behaviours	I	2
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There may be an opportunity to earn additional credits on a Gateway work placement.

Contact persons: Ms L. Cook & Ms K. Price

TOURISM & TRAVEL (12TOU)

Want to work in a dynamic industry? Have fun and travel? Then Tourism is for you. This is New Zealand's biggest employer. This course works towards a National Certificate in Tourism. There is a field trip and industry visits.

Entry requirement: Open entry at HoD/TiC discretion

Additional qualification: National Certificate in Tourism Level 2

Unit Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
24727	Describe and compare impacts of tourism on the physical environment	I	3
24728	Demonstrate knowledge of work roles in tourism	I	3
24729	Demonstrate knowledge of world tourist destinations	I	4
24730	Demonstrate knowledge of the business of tourism	I	4
24731	Demonstrate knowledge of destination New Zealand	I	4
24732	Demonstrate knowledge of tourist characteristics and needs	I	3

Cost: There may be a cost for field trips

Contact persons: Ms L. Cook & Ms K. Price

TECHNOLOGY FACULTY

DESIGN & VISUAL COMMUNICATION (12DVC)

The course of DVC is structured around three areas:

- Graphics Communication and Design
- Environmental Design and Architecture
- Technological and Product Design

Year 12 DVC is a programme for students who are serious about DVC and are aiming at NCEA Level 3 the following year.

A design brief approach is used for most problems throughout the course to ensure students fully explore the design process, develop broad graphics communication skills and start to appreciate good design. Skills in conceptual sketching, design development and refinement, production drawing and presentation will be developed through the course. Modelling is also an integral part of proving design viability. The use of CAD programmes is an integral component of this subject.

Entry requirement: Year 11 DVC

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91340	Use the characteristics of a design movement or era to inform own design ideas	I	3
91343	Use visual communication techniques to compose a presentation of a design	I	4
91341	Develop a spatial design through graphics practice	I	6
91337	Use visual communication techniques to generate design ideas	E	3
91338	Produce working drawings to communicate technical details of a design	E	4
91339	Produce instrumental perspective projection drawings to communicate design ideas	E	3

Equipment required: Set squares, compasses, pencils etc, for use at home and school, and an A3 visual diary

Cost: Take home component \$10 (approx.)

Contact person: Mr P. Yeoman

DIGITAL TECHNOLOGY (12DGT)

A mainly project based course focused on the development of the computer science skills required for further academic studies. Students will undertake a variety of real life projects:

- Design a multi-media website
- Create a fast food ordering program
- Install an operating system and a LAN to host a game server and share media.

Entry requirement: Successful completion of Year 11 Digital Technology course or HoD discretion

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91893	Use advanced techniques to develop a digital media outcome	I	4
91895	Use advanced techniques to develop a network	I	4
91896	Use advanced programming techniques to develop a computer program	I	6
91898	Demonstrate understanding of a computer science concept	E	3

Contact person: Mr J. Clark



ELECTRONIC PRODUCTS (12ELE)

This is a continuation of Year 11 Electronic Products and will suit students who have a compelling interest in microcontrollers (programmable chips) and their application in a variety of products. The course involves students investigating components and circuitry design. Students will present their work in portfolios that detail the research, design and the manufacture of the electronic product. Externally assessed standards have been included so that course endorsement is achievable at Merit or Excellence.

Entry requirement: Year 11 Electronics or HoD discretion

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91356	Develop a conceptual design for an outcome	I	6
91357	Undertake effective development to make and trial a prototype	I	6
91894	Use advanced techniques to develop an electronic outcome	I	6
91359	Demonstrate understanding of the role of material evaluation in product development	E	4

Equipment required: 2 Ltr container, A4 folder, file dividers, A4 lined pad, USB flash drive, and use of a laptop

Cost: Take home component \$70 (approx.)

Contact person: Mr J. Anderson

ENGINEERING TRADE ACADEMY (12ENAC)

This course is aimed at boys who have clearly decided on a career in Engineering or Automotive and are looking to transition from school into the workplace by the end of Year 12. Instead of selecting six subjects this is an integrated course which consists of one option line of literacy, one option line of numeracy and the remainder of the time completing engineering and automotive projects and the associated assessments. Boys who show good workshop practice will also be given the opportunity to gain workplace safety qualifications and attend a work placement. Students will work in groups for several projects.

Entry requirement: Selection into the course will require an interview with HoF and Deans. Students will need a history of consistently following accepted safety practice in the workshop and the ability to work cooperatively and productively with others. This course will run from 10:00am until 4:10pm instead of normal school hours.

Unit Standards offered:

A programme of assessments will be developed to suit the interests and abilities of the group and the practical projects they will undertake. These assessments consist of Unit Standards developed by Engineering and Automotive Industry Training Organisations. All students are expected to gain Level 2 NCEA.

Contact person: Mr P. Yeoman

PRE-TRADE ENGINEERING & AUTOMOTIVE (12PTE)

Students will have the opportunity to learn and apply practical design to set projects while developing confidence in the use of trade skills such as welding, brazing, oxy-acetylene cutting and basic machine tool operation. This emphasis is consistent with the Technology Faculty's approach to prepare students for today's employment opportunities.

Practical projects are created to be included in a student's employment portfolio. All Unit Standards lead toward an apprenticeship in Mechanical Engineering or Automotive.

Entry requirement: Year 11 Advanced Engineering (Metalwork) gaining 14 credits with Year 11 DVC being strongly recommended. Students will need a history of consistently following accepted safety practice in the workshop and the ability to work cooperatively with others. With HoD discretion selected students will complete a work placement through the Gateway programme and may be offered a Safe Trades Course.

Unit Standards offered (compulsory):

Level 2:	Title of Standard:	I or E *	Cr *
21911	Demonstrate knowledge of safety on the engineering worksite	I	1
2395	Select, care and use engineering hand tools	I	4
21906	Perform basic mechanical engineering machining operations under supervision	I	12
4435	Select, use and care for engineering dimensional measuring equipment	I	3
4436	Select, use and care for engineering marking out equipment	I	4

In addition to these core Engineering standards, students will have the opportunity to complete up to 20 additional Automotive unit standards which lead directly towards Automotive apprenticeships.

Equipment required: Safety glasses and overalls

Cost: Take home component \$50 (approx.)

Contact person: Mr P. Yeoman

PRE-TRADE WOODWORK (12PTW)

Pre-trade Woodwork is an internally assessed course embracing a series of industry Unit Standard qualifications, as well as related assignments and skills. The project themes are designed to encourage students to make plans and decisions, analyse solutions and critique their work.

The course will suit those students intending to pursue a career in wood based industries including building, carpentry, joinery and cabinetmaking. Selected students will complete a work placement through the Gateway programme and may be offered a Safe Trades Course.

Entry requirement: Year 11 Advanced Woodwork. All students must submit an application and be interviewed by the Teacher in charge

Unit Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
24354	Demonstrate knowledge of and apply safe working practices in a BCATS workplace	I	4
24357	Receive instructions and communicate information in relation to BCATS projects	I	4
24351	Demonstrate knowledge of and use specified fixed machinery in the construction of BCATS projects	I	6
24353	Demonstrate knowledge of and create sketches and drawings for BCATS projects	I	6
25921	Make a cupboard as a BCATS project	I	6

Cost: Take home component \$80 (approx.)

Contact person: Mr P. Yeoman



PRODUCT DESIGN (12PRD)

This subject builds on the learning outcomes of Year 11 Product Design. Year 12 Product Design is aimed towards students who have a good understanding of design concepts having taken either 11PRD or 11DVC. It will be ideal for students who are interested in design but favour more practical outcomes than 12DVC. The course will focus on design and build assignments with assessments based on Achievement Standards. Skills in conceptual sketching, design, development and refinement, presentation and production will form the basis of assessment. The use of CAD programmes and CNC machines are an integral part of this course and are used to enhance student outcomes.

Entry requirement: Successful completion of 11DVC or 11PRD or HoD discretion

Achievement Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
91356	Develop a conceptual design for an outcome	I	6
91344	Implement advanced procedures using resistant materials to make a specified product with special features	I	6
91347	Demonstrate understanding of advanced concepts used to make products	I	4
91337	Use visual communication techniques to generate design ideas	E	3
91338	Produce working drawings to communicate technical details of a design	E	4

Equipment required: A3 visual diary, sketching equipment, standard and coloured pencils, USB flash drive

Cost: \$60 to cover take home materials

Contact person: Mr P. Yeoman





WHANGĀREI BOYS' HIGH SCHOOL

DEVELOPING BOYS INTO FINE MEN

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