



WHANGĀREI BOYS' HIGH SCHOOL

DEVELOPING BOYS INTO FINE MEN

CURRICULUM GUIDE

YEAR 13



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 13 DEANS' LETTER



Year 13 students return to school for a variety of reasons. Some have the goal of achieving University Entrance, while others are working on their NCEA Level 1, 2 or 3. Regardless, promotion to Year 13 subjects will depend on meeting Year 12 course criteria as outlined within the Curriculum Guide.

There are no compulsory subjects at Year 13. To achieve NCEA Level 3 students must gain at least 80 credits from either Achievement Standards or Unit Standards based subjects. 60 of the 80 credits must be at Level 3 or above (any of these can be carried over from previous years), plus 20 credits from Level 2 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).

Selected students (usually Prefects) will take five subjects and a study period. Others will choose five subjects and have Supported Study where they attend junior classes for three terms. 80% attendance during that time will result in a study period at the discretion of the Year 13 Deans.

Attendance is a significant contributing factor in ensuring academic success. The Ministry of Education indicates that those students who attend at least 76% of classes are more likely to complete course and NCEA qualifications competently. University Entrance under NCEA is as follows:

- 10 credits at Level 1 or above in Mathematics
- 5 credits at Level 2 or above in Reading
- 5 credits at Level 2 or above in Writing
- 14 credits at Level 3 or above in three Approved Subjects
- NCEA Level 3

Approved Subjects for University Entrance:

- | | | | |
|--|--------------------------------|-------------------------------|-----------------------------|
| • Accounting | • Digital Technologies | • Japanese | • Sculpture (Practical Art) |
| • Agriculture and Horticulture | • Drama | • Korean | • Spanish |
| • Biology | • Earth and Space Science | • Latin | • Social Studies |
| • Business Studies | • Economics | • Mathematics | • Statistics |
| • Calculus | • Education for Sustainability | • Media Studies | • Technology |
| • Chemistry | • English | • Music Studies | • Te Reo Māori |
| • Chinese | • French | • Painting (Practical Art) | • Te Reo Rangatira |
| • Classical Studies | • Geography | • Photography (Practical Art) | • Tongan |
| • Construction and Mechanical Technologies | • German | • Physical Education | |
| • Cook Island Māori | • Hauora | • Physics | |
| • Dance | • Health Education | • Printmaking (Practical Art) | |
| • Design (Practical Art) | • History | • Processing Technologies | |
| • Design and Visual Communication | • History of Art | • Psychology | |
| | • Home Economics | • Religious Studies | |
| | • Indonesian | • Samoan | |
| | | • Science | |

It is possible to study a small number of subjects through FarNet and TeKura (The Correspondence School) where students have a clash of subjects or a subject is not available at WBHS. This must be discussed with the Deans and the FarNet/TeKura Coordinator in H6. A very small number of these subjects may alternatively be taken at WGHS but students need to discuss this with the Deans and also email the Principal with their request. Confirmation of these subjects occurs in the next year.

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

YEAR 13 DEANS



YEAR 13 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 minimum entry requirements to University or Polytechnic study, please check with the Careers Advisor or with the institute of choice prior to selecting your Year 13 course of study.

OTHER QUALIFICATIONS

New Zealand Scholarship provides recognition and monetary reward to the top students in New Zealand in each subject. Assessment is by either a written/spoken examination or by the submission of a portfolio or report of work produced throughout the year.

Year 13 students may be working towards the completion of specific New Zealand Certificates that link to Vocational Pathways.

For all assessment matters refer to the Senior Assessment Booklet updated and produced each year for distribution to 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. NCEA provides the pathway for further training, higher qualifications or the workplace.

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 13 students.

To gain an NCEA Level 3 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 3 or above, plus 20 credits at Level 2 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 3 qualification.

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 Rangitira ESOL	✓ English * Japanese * Languages via FarNet * Junior Māori Arts * Te Reo Rangitira ESOL	✓ English English Literacy Japanese Languages via FarNet Senior Māori Arts Te Reo Rangitira ESOL	English English Language & Communication Japanese Languages via FarNet Senior Māori Arts Te Reo Rangitira ESOL	English + English Language & Communication Japanese + Languages via FarNet Senior Māori Arts Te Reo Rangitira + 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 (13ARD)

A course where students explore design processes while working to a brief. Design is a creative, on-going and developmental approach and prepares students for a wide range of tertiary courses. We offer an opportunity for students to develop a folio for careers in Design including Advertising, Architecture, Interior Design and Industrial Design.

Entry requirement: Level 2 Art Design (having achieved AS 91320) or Level 1 Art. 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 3:	Title of Standard:	I or E *	Cr *
91445	Use drawing to demonstrate understanding of conventions appropriate to design	I	4
91450	Systematically clarify ideas using drawing informed by established design practice	I	4
91455	Produce a systematic body of work that integrates conventions and regenerates ideas within design practice	E	14

Cost: \$67 payable at the start of Term 1. This covers a take-home component of \$47 and printing costs of \$20. \$30 for Scholarship is optional.

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

ART PAINTING (13ARP)

A course which systematically develops ideas through an understanding of contemporary art practice, developing ways of using materials, techniques and the generation and redevelopment of ideas through a theme. Students will be well prepared for a range of tertiary courses, including Fine Arts, Design and Architecture.

Entry requirement: Level 2 Painting or HoD discretion

This course may include any combination of the following Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
91441	Analyse methods and ideas from established painting practice	I	4
91446	Use drawing to demonstrate understanding of conventions appropriate to painting	I	4
91451	Systematically clarify ideas using drawing informed by established practice	I	4
91456	Produce a systematic body of artwork that integrates conventions and regenerates ideas within painting practice	E	14
91460	Produce a resolved work that demonstrates purposeful control of skills appropriate to a visual arts cultural context	I	4

Cost: \$20.00 take-home component for students who took Art in year 12. \$30.00 for students new to the subject to purchase an art portfolio. These costs include the courier costs for the externally moderated folio.

Contact person: Mrs V. Luders

DRAMA (13DRA)

This course develops a deeper understanding of theatre and the skills associated with performing. Students will develop self-management in their learning and preparing for 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 Shakespeare Festival.

Entry requirement: At least 9 credits at NCEA Level 2, 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 3:	Title of Standard:	I or E *	Cr *
R 91512	Interpret scripted text to integrate drama techniques in performance	I	4
91513	Devise and perform a drama to realise a concept	I	5
R 91515	Select and use complex performance skills associated with drama form or period (optional)	I	4
R 91517	Perform an acting role in a significant production	I	5
W 91518	Demonstrate understanding of live drama performance (optional)	E	4
R W 91514	Interpret a text from a prescribed playwright to demonstrate knowledge of a theatre form or period (optional)	E	4

The external examinations are optional and offer the opportunity for students to gain endorsement in Drama. Internal standard 91515 is offered as an extra opportunity and to prepare students for the external examination 91514.

Cost: There will be further charges necessary to help pay for viewing live performances throughout the year.

Contact person: Ms F. Churcher

MUSIC (13MUS)

An academic course offering two strands - Music Studies and Practical Music. Students may select standards from both strands for a minimum of 16 credits.

Entry requirement: Students should be able to perform on at least one instrument at a standard equivalent to that expected after four years tuition (Trinity College Grade 6 or 7).

Students should continue to take instrumental lessons throughout the year. Students should be able to read music notation. Participation in one or more performance groups is strongly encouraged. Entry at the HoD's discretion where adequate music skills are demonstrated.

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
Music Studies:			
91421	Demonstrate understanding of harmonic and tonal conventions in a range of music scores	E	4
91422	Analyse a substantial music work	I	4
91423	Examine the influence of context on a substantial music work	E	4
91424	Create two arrangements for an ensemble	I	4
R 91425	Research a music topic	I	6
Making Music:			
91416	Perform two programmes of music as a featured soloist	I	8
91417	Perform a programme of music as a featured soloist on a second instrument	I	4
91418	Demonstrate ensemble skills by performing two substantial pieces as a member of a group	I	4
91419	Communicate musical intention by composing three original pieces of music	I	8
91420	Integrate aural skills into written representation	E	4
91849	Compose three original songs that express imaginative thinking	I	8

Contact person: Ms V. Hill



PHOTOGRAPHY (13PHO)

A comprehensive programme exploring and developing ideas based upon a study of photographic practices using digital materials and techniques.

Entry requirement: Level 2 Photography Achieved AS 91322 or HoD discretion

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
91447	Use drawing to demonstrate understanding of conventions appropriate to photography	I	4
91452	Systematically clarify ideas using drawing informed by established photography practice	I	4
91457	Produce a systematic body of work that integrates conventions and regenerates ideas within photography practice	E	14

Cost: \$77.00 take-home component for students who took Photography in year 12 and \$82 for those who are new to the subject. This includes a USB, an SD card, and the courier cost for the externally moderated folio and must be paid at the start of term 1.

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.

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

HEALTH & PHYSICAL EDUCATION FACULTY

HEALTH (13HLT)

This course further develops the concept of hauora/well-being as we 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. The course involves three Achievement Standards each worth five credits. Students will analyse a health issue for a particular group within New Zealand society and an international health issue. They will also explain a range of health practices currently used in New Zealand.

Entry requirement: HoD discretion

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
R 91461	Analyse a health issue for a particular group within a New Zealand society	I	5
R 91463	Explain a range of health practices currently used in New Zealand	I	5
R 91464	Analyse a contemporary ethical issue in relation to well-being	I	4
R W 91462	Analyse an international health issue	E	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 (13OED)

This course will further develop the student's technical and interpersonal skills. There is an emphasis on cave, rope, and bush survival skills.

Entry requirement: Students must have successfully completed Level 2 OED and demonstrated a comprehensive understanding of safety procedures when participating in OED activities.

Unit Standards offered:

Level 2:	Title of Standard:	I or E *	Cr *
6401	Provide First Aid	I	1
Level 3:			
20129	Demonstrate single rope technique in caving	I	4
430	Bush survival	I	3
26391	Lead an outdoor recreation activity for a group	I	4
427	River crossings	I	2
424	Outdoor First Aid	I	5
6400	Manage first aid in an emergency situation	I	2
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: 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 \$450 for the year long programme. This cost will cover transport, safety equipment, food for overnight activities, the First Aid Certificate, and the cost of qualified, experienced staff who will ensure the safe delivery of all trips.

NB: Students completing this course will gain 22 credits, plus an Outdoor First Aid qualification that is industry recognised.

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 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 3:	Title of Standard:	I or E *	Cr *
91504	Analyse issues in safety management for outdoor activity to devise safety management strategies (essay)	I	3
13377	Identify and manage hazards and risks in relation to a recreation activity and environment (essay)	I	4
20426	Demonstrate knowledge of the history, development, and cultural significance of a park area (assignment)	I	4
90828	Evaluate a personal action that contributes towards a sustainable future (assignment)	I	6

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 (13PSD)

This course is an alternative course in 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. Students will be expected to make contact and invite other health promotion agencies from within the community as part of team/group engagement - to support their learning about New Zealand health issues, such as sexual health.

Entry requirement: HoD discretion

Unit Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
11097	Listen actively to gain information in an interactive situation	I	3
26707	Play in early childhood education	I	4
8681	Contribute within a team group	I	3

Achievement Standard offered:

91461	Analyse a New Zealand health issue - sexual health	I	5
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Contact person: Mrs D. Cooper

PHYSICAL EDUCATION (13PED)

This NCEA Level 3, 19 credit course will focus on Achievement Standards. The course consists of both practical and theoretical elements to give a comprehensive understanding of Physical Education at this level.

Entry requirement: A merit pass or better in all Level 2 Physical Education Achievement Standards and HoD discretion

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
91498	Evaluate physical activity experiences to devise strategies for life long well-being	I	4
91499	Analyse a physical skill performed by self or others	I	3
91501	Demonstrate a quality performance of a physical activity in an applied setting	I	4
R 91502	Examine a current physical activity event or trend or issue impacting on New Zealand society	I	4

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Level 3:	Title of Standard:	I or E *	Cr *
91789	Devise strategies for a physical activity outcome	I	4

Contact persons: Mr L. Jones & Mr J. Thomas

PHYSICAL WELL-BEING (13PWB)

This course has a large practical component where boys experience a variety of physical activities with assessment opportunities throughout the year against nationally developed performance standards.

Students will have the opportunity to lead sessions involved in sport and recreation.

Achievement Standard offered:

Level 3:	Title of Standard:	I or E *	Cr *
91501	Demonstrate a quality performance of a physical activity in an applied setting	I	4

Unit Standards offered:

22771	Plan beginner level coaching session for sport participants	I	6
22768	Conduct and review a beginner level coaching session	I	6
21414	Plan and lead a recreational activity	I	4
20673	Demonstrate knowledge of injury prevention and risk and injury management in sport and recreation	I	5

Contact person: Mr J. Thomas

LANGUAGES FACULTY

ENGLISH (13ENG)

An academic, senior English course focusing on four main areas:

- Formal study of language, analysing style, form and content
- A close study of a significant literary work
- Writing
- Oral presentation

Entry requirement: 12 credits from the Level 2 English course, 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 3:	Title of Standard:	I or E *	Cr *
R W 91472	Respond critically to specified aspect(s) of studied written text(s), supported by evidence	E	4
R W 91474	Respond critically to significant aspect(s) of unfamiliar written text(s) through close reading, supported by evidence	E	4
W 91475	Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas	I	6
91476	Create and deliver a fluent and coherent oral text which develops, sustains, and structures ideas	I	3
R 91479	Develop an informed understanding of literature and/or language using critical texts	I	4
91480	Respond critically to significant aspects of visual and/or oral text(s) through close reading, supported by evidence	I	3

Contact person: Mr M. Nogher



* E= External
UE Lit:

I=Internal
R = Reading

Cr= Credits
W = Writing

RW = Both

ENGLISH LANGUAGE & COMMUNICATION (13ELC)

This course offers a mix of Level 2 and Level 3 Achievement Standards. 13ELC provides the opportunity for students to consolidate Level 2 skills and to gain Level 3 English Achievement Standards to support future study.

Entry requirement: Not met the requirements for Level 3 or 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 and 3 English Achievement Standard classes are designed each year to reflect the needs of the students

	Level 3:	Title of Standard:	I or E *	Cr *
W	91475	Writing portfolio. Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas	I	6
	91476	Valedictory speech. Create and deliver a fluent and coherent oral text which develops, sustains, and structures ideas	I	4
	91478	Connections. Respond critically to significant connections across texts, supported by evidence	I	4
	91480	Close viewing. Respond critically to significant aspects of visual and/or oral text(s) through close reading, supported by evidence	I	3
R W	91472	Written texts. Respond critically to specified aspect(s) of studied written text(s), supported by evidence	E	4

Contact person: Mr M. Nogher

ESOL (13ESL)

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

This course is a preparatory programme for entrance to university. Students are able to achieve UE literacy through this course.

English Language (EL) Unit Standards offered:

Level 4:	Title of Standard:	I or E *	Cr *
22749	Write texts under test conditions for English for academic purposes	I	5
22750	Write a crafted text using research material in English for an academic purpose	I	5
22751	Read and process information in English for academic purposes	I	5
22891	Deliver an oral presentation in English for an academic purpose	I	5
22892	Demonstrate understanding of spoken texts and process information in English for academic purposes	I	5

Cost: IELTS examination \$365 (optional)

Contact person: Mr R. Atkinson

JAPANESE (13JAP)

The Level 3 Japanese course will continue to build on the current Level 2 course, with a focus on language skills, communication functions, and Japanese culture. The course will reflect the achievement objectives for curriculum Level 8 for learning Languages. The following NCEA Level 3 Japanese standards will be offered:

Entry requirement: L2 Japanese HoD discretion

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
91553	Demonstrate understanding of a variety of extended spoken Japanese texts	E	5
91554	Give a clear spoken presentation in Japanese that communicates a critical response to stimulus material	I	3
91555	Interact clearly using spoken Japanese to explore and justify varied ideas and perspectives in different situations	I	6
91556	Demonstrate understanding of a variety of extended written and/or visual Japanese texts	E	5
91557	Write a variety of text types in clear Japanese to explore and justify varied ideas and perspectives	I	5

Contact person: Ms D. Williamson

LANGUAGES via FarNet (13LANf)

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 3 internal and external assessments. FarNet offers a range of courses in French, German, Japanese, 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 (13SMA)

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.

Achievement/Unit Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
17384	List and use a range of te reo Māori greetings and farewells in tourism	I	3
27110	Demonstrate knowledge of influencing factors in the historical development of Māori performing	I	3
91501	Demonstrate quality performance of a physical activity in an applied setting	I	4
22760	Perform a new Māori dance	I	8
22756	Perform a bracket	I	10
17383	Explain the importance, and demonstrate correct pronunciation, of Māori place names	I	3

Cost: \$10 for materials

Contact person: Mr W Cooper

TE REO RANGATIRA (13TRR)

This course includes detailed studies of traditional waiata, customs and historical issues, grammar, and metaphorical language. Oratory skills for whaikorero will also be studied throughout the year.

Entry requirement: Level 2 or HoD discretion



Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
90542	Whakarongo (Listening)	I	4
90782	Tuhituhi (Writing)	E	6
90783	Waihangā tuhi (Creative writing)	I	4
90781	Pānui (Reading comprehension)	E	3
90784	Pānui (Analyse text)	E	3
90543	Kōrero (Speaking)	I	6

Contact person: Mr W. Cooper

MATHEMATICS FACULTY

CALCULUS (13MAC)

This course is a Level 3 NCEA subject. It builds on NCEA Level 2 work in Algebra, Trigonometry and Calculus methods and applications.

Entry requirement: At least 17 credits out of a total of 22 possible credits from NCEA Level 2 to undertake 13MAC including the Algebra and Calculus standards. Entry can be gained into 13MAC by HoF Mathematics discretion.

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
91577	Apply the algebra of complex numbers in solving problems	E	5
91578	Applying differentiation methods in solving problems	E	6
91579	Applying integration methods in solving problems	E	6
91575	Applying trigonometric methods in solving problems	I	4
91587	Apply systems of simultaneous equations in solving problems	I	3

Equipment recommended: A scientific calculator, preferably the Casio 9750 Graphic calculator

Contact person: Mr A. Kitson

MATHEMATICS WITH INTERNALS (13MAI)

Mathematics is a mix of Level 3 Mathematics and Statistics Achievement Standards. The standards in this course are all internally assessed. Successful completion of the standards in the course will count as an approved subject for university entrance. The emphasis of the course will be the application of mathematical and statistical methods when solving problems.

Entry requirement: Students who have 12 or more credits from Level 2 Mathematics and Statistics Achievement Standards are eligible to take this course. Entry may be at the discretion of the Mathematics HoF.

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
91573	Applying the geometry of conic sections in solving problems	I	3
91574	Apply linear programming methods in solving problems	I	3
91576	Use critical path analysis in solving problems	I	2
91580	Investigate time series data	I	4
91581	Investigate bivariate measurement data	I	4
91587	Apply systems of simultaneous equations in solving problems	I	3

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

Contact person: Mr A. Kitson

STATISTICS (13MAS)

This course is divided between applied mathematical topics and statistics and probability. The emphasis is on the application of statistical methods to solve practical problems. Technology is used to process and analyse data efficiently.

Entry requirement: Students must have passed at least Achievement Standards 91261, 91264 and 91267. Entry may be at the discretion of the Mathematics HoF.

Achievement Standards offered: (this may change slightly)

Level 3:	Title of Standard:	I or E *	Cr *
91585	Apply probability concepts in solving problems	E	4
91586	Apply probability distributions in solving problems	E	4
91581	Investigate bivariate measurement data	I	4
91574	Apply linear programming methods in solving problems	I	3
91576	Use critical path analysis in solving problems	I	2
91580	Investigate time series data	I	4

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

Contact person: Mr A. Kitson

SCIENCE FACULTY

AGRICULTURE/HORTICULTURE via FarNet (13AHSf)

A range of standards are available to meet the interests of students.

Entry requirement: Level 2 Agriculture/Horticulture Science or at the discretion of HoF Science.

Contact person: Mrs D. Miller

BIOLOGY (13BIO)

This course will cover both the theoretical and practical aspects of biology from plants and animals to genetics and biotechnology. The course will offer both internal and external standards up to a total value of 20 Level 3 credits.

Entry requirement: 12 credits from Year 12 Biology (at least 8 of which must be external) or at discretion of TiC

Achievement Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
R W	91603	Demonstrate understanding of the responses of plants and animals to their external environment	E	5
R W	91605	Demonstrate understanding of evolutionary processes leading to speciation	E	4
R W	91606	Demonstrate understanding of trends in human evolution	E	4
	91601	Carry out a practical investigation in a biological context, with guidance	I	4
R W	91602	Integrate biological knowledge to develop an informed response to a socio-scientific issue (optional)	I	3
R	91604	Demonstrate understanding of how an animal maintains a stable internal environment	I	3
R	91607	Demonstrate understanding of human manipulations of genetic transfer and its biological implications	I	3

Cost: There may be transport costs for field trips

Contact person: Mrs R. Thornton

CHEMISTRY (13CHE)

The content of this course is based on Practical Investigation, Aqueous Systems, Redox Reactions, Organic Chemistry, Structure and Bonding.

Scholarship Chemistry is offered for those students who wish to undertake Level 4 Chemistry.

Entry requirement: 15 credits from Level 2 Chemistry (must include Achievement Standard 91164, 91165 and 91166). Those who do not qualify for the entry requirement need permission from the Teacher in charge.

Achievement Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
W	91387	Carry out an investigation in chemistry involving quantitative analysis	I	4
	91393	Demonstrate understanding of oxidation-reduction processes	I	3
	91388	Demonstrate understanding of spectroscopic data in chemistry	I	3
	91390	Describe properties of particles and thermochemical principles	E	5
	91391	Describe aspects of organic chemistry	E	5
	91392	Demonstrate understanding of equilibrium principles in aqueous system	E	5

Cost: There may be cost for resources

Contact person: Mr C.M. Lai

FORESTRY (13FOR)

Students will be encouraged to focus on this pathway out of school into work, especially through workplace learning in Gateway and by building relationships with potential employers. Students will have the opportunity to join the New Zealand Trade Academy. This course is run in conjunction with COMPETENZ & Carter Holt Harvey as a Primary Industries Trade Academy.

Entry requirement: Level 1 Numeracy and Literacy, 30 credits from anywhere on the NZQA framework at Level 2, an aptitude for physical work, and a mature attitude

Unit Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
1221		Explain and interpret job prescriptions for forestry operations	I	4
6950		DKO thinning plantation trees and equipment used	I	5
17763		DKO tree felling	I	6
17772		DKO environmental requirements in forestry operations	I	6
3285		DKO protection of personal safety at vegetation fires	I	3
22994		DKO factors that affect the performance of forestry workers	I	10

Contact person: Mrs B. Van Rooyen

PHYSICS (13PHY)

This course is primarily designed as a final preparation for the National Certificate of Educational Achievement Level 3 examination and entry into tertiary courses for which Physics is a prerequisite. This course is based in mechanics, waves, electricity and electromagnetism, and an internal practical investigation.

Entry requirement: Year 12 Physics minimum of 14 credits which must include AS 91171 Mechanics, AS 91170 Waves, AS 91173 Electricity, and Electromagnetism externals; and from Year 12 Mathematics AS 91261 Algebra.

Achievement Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
91521		Carry out a practical physics experiment that leads to a mathematical relationship	I	4
91522		Demonstrate understanding of the application of physics to a selected context	I	3
91523		Demonstrate understanding of wave systems	E	4
91524		Demonstrate understanding of mechanical systems	E	6
91525		Demonstrate understanding of modern physics (optional)	I	3
91526		Demonstrate understanding of electrical systems	E	6

Scholarship Physics is offered for those students who wish to undertake Level 4 Physics

Cost: There may be a cost for resources

Contact person: Mr S. Kumar

SCIENCE (13SCI)

This course is primarily designed as a final preparation for the National Certificate of Educational Achievement Level 3 and entry into tertiary courses for which Science is a prerequisite. This course has a mix of Level 3 Physics, Chemistry, Biology and Earth and Space Science internal Achievement Standards. Successful completion of the standards in this course will count as an approved subject for university entrance.

Entry requirement: Students who have good grades from all the internals in Year 12 Physics, Chemistry or Biology are eligible to take this course. Students from Science Bridging will be eligible at the discretion of the HoF and TiC L2 SCB.

Achievement Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
R	91604	Demonstrate understanding of how an animal maintains a stable internal environment	I	3
	91521	Carry out a practical physics experiment that leads to a mathematical relationship	I	4
W	91387	Carry out an investigation in chemistry involving quantitative analysis	I	4
	91412	Investigate the evidence related to dating geological event(s)	I	4
R	91415	Investigate an aspect of astronomy	I	4

Cost: There may be a cost for resources

Contact persons: Mrs L. Bourke-Heerikhuizen & Mr S. Kumar



SOCIAL SCIENCE FACULTY

ACCOUNTING (13ACC)

The emphasis at this level is on Accounting for partnerships, companies and manufacturing businesses. Students will gain a sound understanding of accounting concepts, processes and systems. There are 22 NCEA credits offered at Level 3.

Entry requirement: 12 credits from Level 2 Accounting

Achievement Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
	91405	Demonstrate understanding of accounting for partnerships	I	4
	91406	Demonstrate understanding of company financial statement preparation	E	5
R W	91407	Prepare a report for an external user that interprets the annual report of a New Zealand reporting entity	I	5
	91408	Demonstrate understanding of management accounting to inform decision-making	E	4
	91409	Demonstrate understanding of a job cost subsystem for an entity	I	4

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

BUSINESS STUDIES (13BUS)

The focus of Business Studies at Level 3 is on planning and carrying out an innovative and sustainable business activity. Students can expect to work in a team environment for at least one semester whilst they research, plan, test, refine, market, and review their innovative, sustainable business activity (AS 91382 and 91384).

A number of New Zealand business case studies and visits to local firms will be used to prepare students for the remaining Achievement Standards (AS 91383 and 91379). Participation in the Young Enterprise Scheme is expected.

Entry requirement: Open entry at discretion of HoD/TiC
Minimum 8 credits in English Level 2

Achievement Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
R W	91379	Demonstrate an understanding of how internal factors interact within a business that operates in a global context	E	4
R	91382	Develop a marketing plan for a new or existing product	I	6
R	91383	Analyse a human resource issue affecting a business	I	3
R	91384	Carry out with consultation an innovative, sustainable business activity	I	9

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

CLASSICAL STUDIES (13CLS)

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 delve into Roman politics and propaganda, studying the Aeneid and its links with the famous emperor, Augustus. They also investigate Alexander the Great's conquests of Persia and his attempts to build an empire.

Key skills in research, essay writing and critical thinking will be developed over the year.

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

Achievement Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
RW	91394	Vergil's Aeneid	E	4
RW	91396	Augustus	E	6
RW	91397	Alexander the Great	I	6
R	91398	A research topic exploring Greek and Roman influences on later cultures	I	6

Contact person: Mr R. Burrows

ECONOMICS (13ECO)

This course focuses on developing an in-depth understanding of micro-economic concepts. Students learn that well-functioning markets are efficient but the government may have to intervene where markets fail to deliver efficient or equitable outcomes. This course contributes 18 credits towards NCEA Level 3, with 10 credits available through internal assessment and an additional 8 credits offered in the external examinations.

Entry requirement: 12 credits Level 2 Economics or HoD discretion

Achievement Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
R W	91399	Demonstrate understanding of the efficiency of market equilibrium	E	4
R W	91400	Demonstrate understanding of the efficiency of different market structures using marginal analysis	E	4
R	91401	Demonstrate understanding of micro-economic concepts	I	5
R	91402	Demonstrate understanding of government interventions to correct market failures	I	5

Contact person: Ms K. Price

GEOGRAPHY (13GEO)

This is an enriched course covering a range of natural and cultural processes that impact on people and the world around them. The course follows these main themes:

- Natural processes - coastal process studies focused on a Northland coastal environment including field work on a Northland beach related to the research achievement standard
- Investigation into modern/contemporary maritime piracy
- Investigation into the proposal to have a rail link from Auckland Airport to Britomart

Entry requirement: Pass Level 2 Geography and Level 2 literacy

Achievement Standards selected from:

	Level 3:	Title of Standard:	I or E *	Cr *
R	91428	Analyse a significant contemporary event from geographic perspective	I	3
R W	91426	Demonstrate understanding of how interacting natural processes shape a New Zealand geographic environment	E	4
R W	91429	Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills	E	4
	91430	Conduct geographic research with consultation	I	5
R	90828	Evaluate a personal action that contributes towards a sustainable future	I	6

Externally assessed standards may be reduced to two at the discretion of Teacher and HoD.

Cost: There may be a cost for fieldwork, maps and materials. Field trips to a Northland beach/coastal environment.

Contact person: Mr J. Warren



HISTORY (13HIS)

Year 13 History focuses on the history of Japan from the Shogunate Period to Imperial Japan during World War II.

Students will explore key moments in Japanese history like the Tokugawa shogunates the Meiji restoration and the Pacific Theatre of World War II.

*Topics studied at Year 13 include:

- History of Japan
- The Decision to Drop the Bomb (Hiroshima and Nagasaki)
- Pearl Harbour

Students will gain skills in academic writing, independent research, and critical thinking, useful as part of the students' preparation for university study.

Achievement Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
R W	91434	Research an historical event or place of significance to New Zealanders, using primary and secondary sources	I	5
R	91435	Analyse an historical event, or place, of significance to New Zealanders	I	5
R W	91436	Analyse evidence relating to an historical event that is of significance to New Zealanders	I	4
R	91437	Analyse different perspectives of a contested event of significance to New Zealanders	I	5
R W	91438	Analyse the causes and consequences of a significant historical event	E	6

*Topics are subject to change

Cost: Field trip costs as applicable

Contact person: Mr R. Burrows

PERSONAL FINANCIAL MANAGEMENT (13PFM)

13PFM continues to develop financial knowledge and skills to enable students to engage in the world with a secure financial platform. It covers in more detail the aspects of past courses but extends students to real life finance such as income, investments, financial planning, property purchasing and external factors that could affect our wealth.

Unit Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
28098		Evaluate options to increase personal income	I	5
28099		Analyse and compare credit options and recommend strategies to manage personal finances	I	5
28100		Develop a plan to achieve a long-term personal financial goal(s)	E	4
28101		Plan a long-term personal financial investment portfolio	I	5
28102		Demonstrate understanding of risk and return for a personal financial investment portfolio	E	6
28103		Analyse and select personal house financing and purchase options	I	3
28104		Analyse the impact(s) of external factors on personal finances	I	3

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

PSYCHOLOGY (13PSY)

Psychology is the scientific study of human thought, emotions and actions. In Year 13 we analyse academic research looking at experiments that go well, and badly, like the Stanford Prison experiment. We look at other standalone approaches not covered at Level 2 like Cognitive Psychology and how we think and learn, Evolutionary Psychology and what biologically

made us the way we are and how we perceive the world, and Sociocultural Psychology and how culture affects our behaviour.

Topics covered include:

- Research and ethics in experiments including conducting our own experiments
- Cognition and the mind as a thought processing machine. How we receive information. How do we solve problems
- Analyse prejudice and discrimination; stereotypes and gender preference in relationships

Entry requirement: 11 credits in Year 12 Psychology or equivalent, or 12 credits in English, any Social Studies, or any Science at Level 2. Alternatively at HoD discretion.

Achievement Standards selected from:

	Level 3:	Title of Standard:	I or E *	Cr *
	91872	Analyse the interaction between psychological approaches	I	6
R	91874	Conduct independent psychological research with consultation	I	6
R	91875	Analyse how theories are applied within a field of psychological practice	I	4
R W	91876	Analyse a significant issue in psychological practice	E	3

Contact person: Mr D. Moore

SALES & CUSTOMER SERVICE (13SCS)

This Level 3 Sales and Customer Service course enables students to build on the knowledge and skills learned in the previous year. Students have the opportunity to develop more specialised sales and communication skills. They will learn how to deal with challenging customers by understanding their own personality and how they respond to events, prepare cash for banking, create in-store displays in the retail environment. These skills are very transferable and link with the Tourism Level 3 course. A Gateway placement is a compulsory component of this course. There are more credits available upon completion of the Gateway component.

Unit Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
376		Employ customer service techniques to accommodate customer behavioural styles in a workplace	I	2
9694		Demonstrate and apply knowledge of communication process theory	I	4
11097		Listen actively to gain information in an interactive situation	I	3
7126		Respond to oral complaints	I	2
1304		Communicate with people from other cultures	I	2
11816		Respond to customer enquiries by writing in a range of contexts	I	4

There may be an opportunity to earn additional credits on Gateway work placement.

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

TOURISM & TRAVEL (13TOU)

This course builds on the knowledge and skill base required to work in this dynamic and booming industry. This is a taster and passport to the world of tourism and travel. There are industry visits and a field trip to Queenstown.

Additional qualification: National Certificate in Tourism Level 3

Unit Standards offered:

	Level 3:	Title of Standard:	I or E *	Cr *
18212		Demonstrate knowledge of New Zealand as a tourist destination	I	5
18211		Destination Australia	I	5



Unit Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
3727	Destination South Pacific	I	5

Cost: There may be a cost for a field trip

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

TECHNOLOGY FACULTY

DESIGN AND VISUAL COMMUNICATION (13DVC)

The course is aimed at students who have experienced DVC in the senior school and see DVC as a support subject for future studies.

Students will have the opportunity to develop and resolve design ideas around a concept of their choice. They will also develop a high standard of presentation techniques.

Entry requirement: Year 12 DVC

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
91627	Initiate design ideas through exploration	E	4
91628	Develop a visual presentation that exhibits a design outcome to an audience	I	6
91629	Resolve a spatial design through graphics practice	I	6
91631	Produce working drawings to communicate production details for a complex design	E	6

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 (13DGT)

A 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, plan, and create a dynamic website from media they have gathered.
- Design a multi-user multiple choice Quiz using Python.
- Create a network attached Storage Device (NAS) using a raspberry Pi

Entry requirement: Successful completion of Year 12 Digital Technology at HoD discretion

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
91903	Use complex techniques to develop a digital media outcome	I	4
91905	Use complex techniques to develop a network	I	4
91906	Use complex programming techniques to develop a computer program	I	6
91908	Analyse an area of computer science	E	3

Contact person: Mr J. Clark

ELECTRONIC PRODUCTS (13ELE)

This is a continuation of Year 12 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 3:	Title of Standard:	I or E *	Cr *
91608	Undertake brief development to address an issue with a determined context	I	4
91611	Develop a prototype considering fitness for purpose in the broadest sense	I	6
91904	Use complex techniques to develop an electronics outcome	I	6
91610	Develop a conceptual design considering fitness for purpose in the broadest sense	I	6
91613	Demonstrate understanding of material development	E	4

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

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

Contact person: Mr J. Anderson

PRE-TRADE ENGINEERING & AUTOMOTIVE (13PTE)

Student work will be assessed using a combination of Achievement Standards and Unit Standards from the Engineering Industry. The course is for students desiring to enter the Engineering or Automotive trades and become skilled workers.

Entry requirement: Completion of Year 12 Pre-trade Engineering and DVC to Year 11. All students must complete an application form available from the Technology Faculty and will be interviewed by the Teacher in charge.

Students will complete a work placement during the year.

Unit Standards offered:

A programme of Engineering and Automotive standards will be offered to suit skills and career focus of students.

Unit Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
20799	Demonstrate knowledge of common Engineering Materials	I	4

Achievement Standards offered:

91620	Implement complex procedures to integrate parts using resistant materials to make a specified product	I	6
91624	Demonstrate understanding of a structural system	I	3
91625	Demonstrate understanding of a complex machine	I	3

Equipment required: Safety glasses, and overalls

Cost: Material cost of \$65.00. There may be additional costs depending on skill level and project selection. Those in the Trade Academy programme have costs covered.

Contact person: Mr P. Yeoman



PRE-TRADE WOODWORK (13PTW)

This subject builds on the learning outcomes of Year 12 Pre-trade Woodwork, utilising newly introduced Level 3 Unit Standards developed by BCITO. The course is aimed towards students who have completed the Year 12 Pre-trade Woodwork course and are interested in a career in a variety of building trades. The course is designed around project based assessment and allows students to develop more individual outcomes than in Year 12.

Entry requirement: Successful completion of 12PTW or at the discretion of HoD

Unit Standards offered:

Students' assessment will vary to suit the individual project developed by the student. Students will have the opportunity to gain between 14 and 29 Level 3 credits.

Level 3:	Title of Standard:	I or E *	Cr *
Core Standard:			
29684	Undertake a Stage 3 BCATS project	I	12
Optional Standards:			
29677	Follow safe workplace practices, and contribute to a health and safety culture, in a BCATS environment	I	2
29678	Demonstrate knowledge of, select, and use materials for a Stage 3 BCATS project	I	4
29679	Develop and use BCATS project documentation for a Stage 3 BCATS project	I	8
29680	Communicate and work collaboratively in a Stage 3 BCATS project	I	5
29681	Measure and calculate for a Stage 3 BCATS project	I	3
29682	Select, use, and maintain tools, equipment and machinery for a Stage 3 BCATS project	I	4
29683	Incorporate other building, construction and allied trades into a Stage 3 BCATS project schedule	I	2

Cost: Estimated cost of \$60 to cover take home materials. This may vary depending on the student's individual design of project.

Contact person: Mr G. Trail

PRODUCT DESIGN (13PRD)

This subject builds on the learning outcomes of Year 12 Product Design. Year 13 Product Design is aimed towards students who have a good understanding of design concepts having taken either 12PRD or 12DVC. It will be ideal for students who are interested in design but favours more practical outcomes than 13DVC. The course will focus on design and build assignments that are assessed to meet achievement standards. Skills in conceptual sketching, design, development and refinement, presentation and production will form the basis of all 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 the 12DVC or 12PRD or HoD discretion

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	Cr *
91608	Undertake brief development to address an issue within a determined context	I	4
91609	Undertake project management to support technological practice	I	4
91620	Implement complex procedures to integrate parts using resistant materials to make a specified product	I	6
91622	Implement complex procedures to make a specified product using a CNC machine	I	4

Cost: Take home component \$60 (depending on student's choice of design project)

Contact person: Mr P. Yeoman







WHANGĀREI BOYS' HIGH SCHOOL

DEVELOPING BOYS INTO FINE MEN

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