

YEAR 13

WHANGAREI BOYS' HIGH SCHOOL



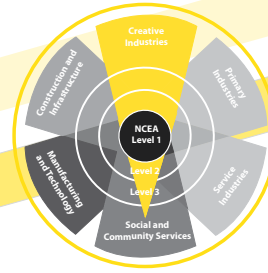
Curriculum Guide 2020



Vocational Pathways

CREATIVE INDUSTRIES

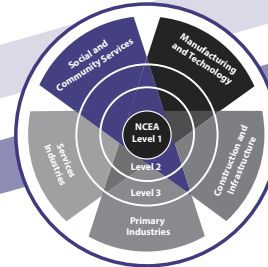
- Actor
- Advertising Executive
- Animator
- Artist
- Copywriter
- Fashion Designer
- Graphic Designer
- Musician
- Photographer
- Publisher
- Stage/Set Designer
- Web Designer



Vocational Pathways

SOCIAL AND COMMUNITY SERVICES

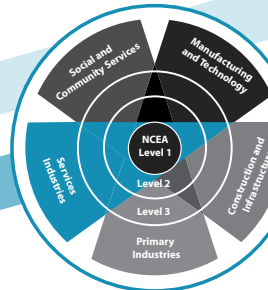
- Ambulance Officer
- Chiropractor
- Counsellor
- Dentist
- Doctor
- Educator
- Nurse
- Osteopath
- Pharmacist
- Physiotherapist
- Surgeon
- Social Worker



Vocational Pathways

SERVICES INDUSTRIES

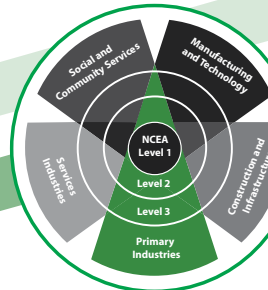
- Aviation
- Bar Manager
- Baker
- Chef
- Customs Officer
- Firefighter
- Hairdresser
- Hotel Manager
- Police Officer
- Retail Salesperson
- Restaurant Manager
- Travel Agent



Vocational Pathways

PRIMARY INDUSTRIES

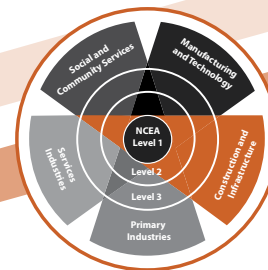
- Animal Attendant
- Beekeeping
- Dairy Farmer
- Ecologist
- Forestry
- Fishery Officer
- Horticultural Worker
- Landscape Gardener
- Marine Biologist
- Microbiologist
- Winemaker
- Veterinarian



Vocational Pathways

CONSTRUCTION AND INFRASTRUCTURE

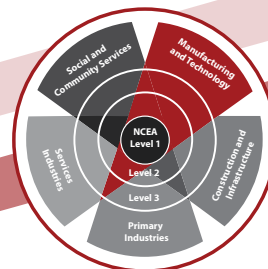
- Architect
- Builder
- Carpenter
- Driller
- Electrician
- Glazier
- Mining
- Planner
- Plumber
- Roading
- Roofing
- Surveyor



Vocational Pathways

MANUFACTURING AND TECHNOLOGY

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



Welcome to our Curriculum Guide 2020

This publication contains all courses for one year level at Whangarei Boys' High School. Other year levels are available online at www.wbhs.school.nz or by request. After careful consultation with parents/caregivers and following academic guidance with Whanau Teachers and/or Deans, our students are able to take a long term view to their academic planning, to see how subject areas develop and where they lead. To this end, subjects are laid out by year levels, containing to-the-point descriptions of the subject and in the case of the senior year levels, concise statements of the assessments for the subject. It is important to note that in the senior school, the listed subjects run conditional on the number of students taking that class. During the academic guidance process, students may select a subject which, due to very low numbers, may not be included in the 2020 timetable. In those cases, students will be asked to re-select. Acceptance in a subject may, in some cases, be dependent on a student's level of positive engagement with learning.

At Years 11 through to 13, all Achievement Standards and Unit Standards credit to the National Certificate of Educational Achievement at Levels 1, 2 or 3. Subjects considered compulsory in the senior school are English and Mathematics at Year 11.

The Curriculum broadens at senior level to include a number of courses, which offer students opportunities to follow specific vocational interests. The Gateway and Academy programmes are also available to senior students. They allow students to gain practical experience and assessment in the workplace. They also assist students to decide on their preferred type of employment and, in some cases, for employers to look at them as prospective employees. Many of these students go on to be apprentices.

The selection of subjects is an important process, one that requires the input of parents, caregivers and staff alike. We know that you and your son will take the time to examine carefully the information contained within.

Subject Selection Evening for students and parents/caregivers to discuss subject selection for 2020 will be held at **5.30 – 7.30pm** on **Wednesday 31 July 2019**, in the School Hall.

For current students subject selection can be entered via the KAMAR portal by **Wednesday 7 August 2019** and parents will be sent details of how to do this. Otherwise, by appointment with the Deans.

For students new to the school in 2020, Deans are available by appointment for subject discussion and selection.

As the Curriculum continues to evolve and respond to new challenges and needs, we invite feedback and suggestions. Please feel free to contact the Curriculum Committee, via the Deputy Principal, Allister Gilbert. The National Curriculum offers the flexibility for schools to tailor programmes to the strengths and needs of their communities.

We trust that along with our academic guidance, our Curriculum Guide 2020 will inform and assist you with the important planning and decision-making for future learning.

Yours sincerely

K. Gilbert-Smith
PRINCIPAL

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IMPORTANT DATES

2019

Wed	31	Jul	Subject Selection Evening - for boys in Year 9 - 12 selecting 2020 subjects. Senior staff, Head of Faculty staff, and Deans will be available to discuss subject selection with students and parents/ caregivers
Thurs	1	Aug	Year 8 Open Evening
Wed	7	Aug	Final day for online subject selection via parent portal - for Years 9 - 12 boys selecting 2020 subjects
Wed - Thurs	21 - 22	Aug	Year 8 Enrolment Interviews in School Hall
Mon - Fri	26 - 30	Aug	Senior Assessments trial examinations
Wed	25	Sept	Senior Interim Reports issued
Mon	14	Oct	Years 11 – 13 students issued with exam slips during WT
Thurs	31	Oct	Senior Prize-giving 7.00pm (WGHS Gym)
Fri	7	Nov	NCEA examinations start
TBC			Leavers' Ball
Tue	10	Dec	Junior Prize-giving (reports issued)

2020

Mon - Tue	20 - 21	Jan	All Year 13 Prefects/Senior Leaders – Leadership/Mentoring Training
Tue - Thurs	21 - 23	Jan	Years 9 – 13 Deans available for subject consultation for all returning students and new enrolments
Mon	27	Jan	Northland Anniversary Day All Year 9 Boarders and Hostel Prefects in Carruth House by 3.00pm
Tue	28	Jan	Years 9 & 13 students attend school. Powhiri at 9.00am
Wed - Thurs	29 - 30	Jan	Year 9 & Prefects attend school Years 10 – 13 Deans available at 11.00am for course changes
Fri	31	Jan	Year 9 only attend
Mon	3	Feb	All students attend school
Thurs	6	Feb	Waitangi Day

Useful Websites

Vocational Pathways – www.youthguarantee.net.nz

Careers New Zealand – www.careers.govt.nz

Occupation Outlook app - <https://play.google.com/store/apps/details?id=com.fronde.occupationaloutlook&hl=en>

Just the Job - www.justthejob.co.nz

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

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



ACADEMIC COURSES 2020

POINTS TO NOTE		YEAR 9				YEAR 10				YEAR 11 - LEVEL 1				YEAR 12 - LEVEL 2				YEAR 13 - LEVEL 3				
FACULTY		* Art	* Drama * Music	✓ Health ✓ Physical Education * Outdoor Education * Sports Specific Training	✓ English	* Japanese * Languages via FarNet ✓ Te Reo Māori * Junior Maori Arts * Te Reo Rangatira ESOL	✓ Mathematics	* Agriculture/Horticulture ✓ Science	* The World of Business * Money Wise	* Classical Studies ✓ Social Studies	* Start Your Own Business * The World of Money	* Art * Drama * Music	Art Digital Art Drama Music	Art Design Art Painting Photography Drama Music	Health Physical Education Physical Well-being Outdoor Education Personal & Social Development	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	Calculus + Mathematics + Statistics +	Agriculture/Horticulture (FarNet) + Science + Biology + Chemistry + Physics + Forestry	Accounting + Business Studies + Economics + Personal Financial Management Sales & Customer Service Social Action on Film Tourism & Travel Classical Studies + Geography + History + Psychology +	Design & Visual Communication + Digital Technology +	Pre-trade Engineering & Automotive Pre-trade Woodwork
The Arts																						
Health & Physical Education																						
Languages																						
Mathematics																						
Sciences																						
Social Sciences																						
Technology																						

✓ 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.

CAREER AREAS

The following information may assist with subject selection, however please note this is only a guide. Check with employers and/or tertiary providers to find out whether a subject is a requirement or is recommended.

CAREER / QUALIFICATIONS	LEVEL 1	LEVEL 2	LEVEL 3
Acting/Performing Arts (Many performing arts courses are now degrees so entry requires UE and an audition)	Drama Dance Maori Performing Arts	English & Drama Dance Media Studies Maori Performing Arts	English & Drama Dance Media Studies Maori Performing Arts
Agriculture/Farming/Fishing/Forestry/ Turf Management/ Horticulture Straight to employment & ongoing study with the Industry Training Organisation (ITO) up to Dip. Farm Management level or Diploma or Degree from Polytechnics, Massey or Lincoln Universities	Agriculture/Horticulture Primary Industries Science Accounting Economics	Agriculture/Horticulture Primary Industries Trade Academy Placement Accounting Biology & Chemistry UE Literacy	Primary Industries Trades Academy Placement Accounting &/or Economics Agriculture or Horticulture Biology & Chemistry Business Studies
Animation Diploma e.g. Techtorium or UE e.g. AUT course	Art Digital Technology Science	Art & Digital Technology UE Literacy or English Mathematics Science STAR Course	Art Digital Technology Science STAR Course
Apprenticeships / Cadetships (including Building, Plumbing, Civil Engineering, Electrical, Painting, Bricklaying, Roofing, Plastering, Trade Engineer, Scaffolding, Automotive, Boat Building)	Science DVC Metalwork or Woodwork Science	Mathematics DVC Gateway or Trade Academy Placement Metalwork or Woodwork Science	Mathematics & English DVC Gateway or Trade Academy Placement Pre-trade Metal or Wood Science
Armed Services: Army, Navy, Air Force Specific requirements depend on the trade or career selected See www.defencecareers.mil.nz Officer Training requires UE	Science Digital Technology Metalwork or Woodwork	English & Mathematics Biology/Chemistry/Physics DVC Health Metalwork or Woodwork	University Entrance with relevant subjects, abilities and experience for Officer Training e.g. Medicine/ Professional Engineering Pre-trade Metal/Wood
Architectural Draughting Diploma courses - at least 35 credits in 3 subjects at L2, NorthTec course	DVC Science	English & Mathematics DVC Gateway	
Architecture UE and portfolio of art work	Art and/or DVC Science	Mathematics UE Literacy Physics	Art and/or DVC Calculus Physics, maybe Chemistry Language Rich Subject
Art/Design Certificates/Diplomas - good L1 or L2 results and a portfolio of work Degrees - UE and a portfolio	Art DVC Digital Technology	Art and/or DVC Art Design UE Literacy Digital Technology Mathematics	Art Art Design Digital Technology DVC Language Rich Subject
Automotive Engineering (Motor Mechanic)	Art (Car painting) Metalwork	Automotive Art (Car painting) Mathematics & Metalwork	
Building Professional • Construction Economist • Construction Management • Degree courses - UE required	Woodwork Science	English & Mathematics DVC/Woodwork Geography Physics	Calculus Physics Business Studies Pre-trade Wood
Business • Diplomas - 48 credits in best 4 L2 subjects • Degrees - BCom, BBus UE required	Accounting Economics	English Mathematics Accounting Economics Business Studies	Statistics for Economics majors Business Studies Language Rich Subject
Catering/Chef/Cook/Baking • Apprenticeship • Diploma or UE course AUT or QRC in Paihia or Queenstown	Science	Chemistry Hospitality Sales & Customer Service Tourism	Hospitality Sales & Customer Service Tourism



CAREER / QUALIFICATIONS	LEVEL 1	LEVEL 2	LEVEL 3
Cleaner National Certificate Cleaning	Personal Financial Management Science	Personal Financial Management Sales & Customer Service Science STAR Course	Business Studies Sales & Customer Service Science Gateway Placement
Communications/Journalism • Bachelor of Arts Degree - UE • Communications Degree • Certificate and Diploma L2 credits		English Classical Studies Geography & History Health & Psychology Media Studies	English Classical Studies Geography & History Health & Psychology Media Studies
Computing/ Computer Engineering • Certificates - L2 credits • Diplomas - L2-L3 credits • Degrees - UE plus	Digital Technology	English Mathematics Digital Technology	Mathematics/ Calculus Physics Language Rich Subject Digital Technology
Dentistry University Entrance Otago University - First year Medicine	Science	Biology Chemistry Health Physics Mathematics	Biology & Chemistry Health Physics Statistics
Engineering Professional • Diplomas - 14 L2 credits in each of Mathematics and Physics and 14 credits in L1 English • Degrees - UE plus extra requirements Calculus & Physics	Digital Technology Metalwork Science	English Geography Mathematics Metalwork Physics & Chemistry	Calculus Chemistry Language Rich Subject Physics
Flight Attendant Also known as Air Steward/ Cabin Crew	Languages Social Studies Geography Health	Health Geography Languages Psychology Sales & Customer Service Tourism	Health Languages Sales & Customer Service Tourism
Food Technology	Science	UE Literacy Mathematics Biology Chemistry	Biology Business Studies Chemistry Statistics
Graphic Design Diplomas & Degrees	Art Digital Technology	English / UE Literacy Art/DVC Art Design Photography Digital Technology	Art/DVC Art Design Digital Technology Photography
Hairdressing	Science Art	Art Sales & Customer Service Science	
Health Sciences Includes: Nursing, Med Lab Science, Occupational Therapy, Physiotherapy, Paramedics, Medical Imaging, Osteopathy, Medicine, Podiatry, Oral Health, Chiropractor	Science Health Human Biology (Te Kura)	Chemistry & Biology UE Literacy Health Physics Mathematics	Mathematics/Calculus/ Statistics Chemistry & Biology Health Physics Language Rich Subject
Hospitality (Hotel and Restaurant Work, Tourism, Hotel Reception) Diploma or Degree - Polytechnics, QRC	Accounting & Economics Science	Accounting & Economics Digital Technology English & Science Mathematics Sales & Customer Service Tourism	Accounting & Economics Mathematics Science Sales & Customer Service Tourism
Landscape Design/Architecture UE and a portfolio	Science Art/DVC Horticulture	Science Art/DVC Horticulture	English Art/DVC
Law Legal Admin course offered at AUT Degree - Victoria, Canterbury, Auckland & Waikato Universities	Classical Studies	Classical Studies UE Literacy Geography/History	Classical Studies English Geography/History
Logistics & Driving Traineeship, Diploma or Degree Manukau Institute of Technology, NorthTec, Unitec, AUT, Massey University	Digital Technology Gateway placement STAR Course Science	Mathematics Digital Technology Sales & Customer Service Science & UE Literacy	Business Studies Science

CAREER / QUALIFICATIONS	LEVEL 1	LEVEL 2	LEVEL 3
Manufacturing/Technology Straight to employment or Certificates, Diplomas Boat building, Jeweller, Civil or Chemical Engineer, Production Manager, Winemaker, Game Developer, Baker, Forensic Scientist, Operator	Mathematics Metalwork Woodwork Science	Mathematics Metalwork Woodwork Science UE Literacy or English Gateway	Pre-trade Engineering Mathematics Science
Medicine Doctor/Surgeon/Pharmacist Only offered at Auckland and Otago Universities	Science Human Biology	Biology & Chemistry Physics UE Literacy Mathematics	Biology & Chemistry Physics Language Rich Subject Mathematics/Calculus/ Statistics
Medical Laboratory Science	Science	Mathematics Biology Chemistry	Biology Chemistry Mathematics/Statistics
Music Self-employment or Degree Audition, portfolio	Music	Mathematics Music UE Literacy	Language Rich Subject Music
Office Administration Many courses are at degree level NorthTec, Unitec	Digital Technology	Mathematics Information Management STAR Course	
Photography Diploma & Degrees	Arts Digital Technology Visual Arts	UE Literacy Art Design &/or Visual Art Photography	Photography Art Design or Visual Art Photography
Psychology	Science	UE Literacy Biology & Chemistry Health & History Psychology	Language Rich Subject Health & Geography Psychology
Pilot	Science	English & Mathematics Physics	Calculus Physics
Retail • National Certificate in Retail • Butchery Apprenticeship • Sales & Marketing • Supply Chain Management	Accounting/ Economics Science	UE Literacy or English Gateway Mathematics Psychology Sales & Customer Service Tourism	Business Studies Statistics Sales & Customer Service Tourism
Sales & Retail	Accounting Economics Science	English & Mathematics Sales & Customer Service Business Studies	Sales & Customer Service Business Studies
Social Work	Social Studies Health History	UE Literacy Biology & Economics Health & History Psychology	Language Rich Subject Economics Health Psychology
Sound (Audio) Engineering	Science Music	Mathematics & Physics Music Digital Technology & Electronics	Physics Electronics Calculus
Sport and Recreation Diplomas or Degrees	Outdoor Education Physical Education Science	UE Literacy Biology & Mathematics Outdoor Education Physical Education Sales & Customer Service	Language Rich Subject Mathematics Physical Education Sales & Customer Service Science
Surveying Also consider Environmental Engineering, Landscaping etc.	Science	UE Literacy Mathematics Physics Geography	Calculus Geography Physics
Teaching For secondary teaching you need two teaching subjects to study at degree level		English, Mathematics, Science, History, Physical Education, French, Geography etc.	English, Mathematics, Science etc. Te Reo
Travel and Tourism	Geography Digital Technology Languages	Mathematics & English Digital Technology, Languages Geography / Tourism	Digital Technology Geography / Tourism Languages
Veterinarian/ Work with animals Degree level study is needed to become a vet. Diploma for Vet Nursing	Science	UE Literacy Mathematics Chemistry & Biology Physics (optional)	Language Rich Subject Mathematics Chemistry & Biology Physics (optional)

ADDITIONAL PATHWAYS OF LEARNING

TE KURA (The Correspondence School)

These courses are offered to students who have New Zealand Citizenship and are wanting a subject where Whangarei Boys' High School does not have a class. Te Kura subjects are delivered via online learning. Boys work in a supervised classroom and have access to one-on-one teacher assistance. Students must submit work at least every month.

FARNET

FarNet is available to domestic and international students. Students study via a mix of the internet and Google ZOOM lessons with a distance tutor. This arrangement is useful where students have a clash of two subjects in their timetable and both complement their learning pathway. FarNet may also be available where Whangarei Boys' High School is not offering a subject.

FarNet students must regularly submit work to their tutors for feedback. The boys are supervised at all times and have access to one-on-one teacher support. Most school subjects are available to one or two boys where there is sufficient demand from schools. Examples of subjects outside Whangarei Boys' High School subjects are:

Level 3 Agriculture, Horticulture & Equine	Levels 1, 2 & 3 Media Studies
Level 3 Social Studies	Levels 2 & 3 Hospitality
Year 9 – 13 Languages (French, German, Korean, Samoan, Spanish)	

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

Contact persons: Mrs Miller & Deans

GATEWAY

Gateway is structured workplace learning, mostly for students in Years 12 and 13. They experience an unpaid placement in a workplace 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 funded places in several Trade Academies and these occur where the school works with a tertiary provider to transition a student into study and work. The places involve focused learning in the senior school for the entire year and boys take related school subjects, attend field trips, and in some cases attend a work placement. Others attend one or two days with a tertiary provider such as NorthTec, G&H Training or The Design School. To be considered for a Trade Academy place, boys should select subjects from one of the lines below and have a conversation with one of their Deans or Careers staff.

- Year 12 & 13 - Pre-trade Engineering, **and** Automotive, **and either** Business Studies **or** Personal Financial Management
- Year 11 & 12 - a full time Engineering Academy is offered to boys who know that they want an apprenticeship in the metal trades
- Year 11, 12 & 13 - Primary Industries

Contact persons: Mrs O'Leary, Ms R. Andrews & Deans

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 Approved Subjects through Te Kura (The Correspondence School), WGHS, or FarNet. This must be discussed thoroughly and confirmation usually occurs the following year.

During subject selection guidance is available from Whanau Teachers, Deans, subject teachers, and Careers staff.

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 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.

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 *	CV *
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: Take home component \$80 which includes the courier cost of the externally moderated folio. There is an additional cost of \$20 for printing. This is to be paid at the beginning of Term 1 and credited to the student's printing account. Scholarship is an extra cost of \$30 per subject.

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 *	CV *
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: Take home component \$100. This includes 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 8 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 *	CV *
91512	Interpret scripted text to integrate drama techniques in performance	I	4

Level 3:	Title of Standard:	I or E *	CV *
91513	Devise and perform a drama to realise a concept	I	5
91515	Select and use complex performance skills associated with drama form or period (optional)	I	4
91517	Perform an acting role in a significant production	I	5
91518	Demonstrate understanding of live drama performance (optional)	E	4
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 a further charges necessary to help pay for viewing live performances throughout the year.

Contact person: Mrs E. Gardner

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 *	CV *
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
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 *	CV *
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: Take home component \$80 which includes a USB, an SD card and courier cost for the externally moderated folio. This is to be paid at the beginning of Term 1 and credited to the student's printing account.

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 *	CV *
91461	Analyse a health issue for a particular group within a New Zealand society	I	5
91463	Explain a range of health practices currently used in New Zealand	I	5
91464	Analyse a contemporary ethical issue in relation to well-being	I	4
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:

Standard	Title of Standard:	I or E *	Level	CV *
20152	Experience and complete Abseiling sessions	I	1	1
20818	Demonstrate kayaking skills on sheltered or slow moving water	I	1	2
20210	Experience rock climbing	I	1	1
448	Experience a caving trip	I	1	1
20141	Complete beginner orienteering courses	I	1	1

Standard	Title of Standard:	I or E *	Level	CV *
90964	Demonstrate quality movement in the performance of a physical activity	I	1	3
467	Demonstrate personal and social development through participation in adventure-based learning	I	2	3
431	Navigate in good visibility on land	I	2	3
426	Experience camping	I	2	3
444	Demonstrate basic rock climbing movement	I	2	1

Cost: \$250

Contact persons: Mr S. Huurnink & Mr Jt. 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 3:	Title of Standard:	I or E *	CV *
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 5 credits (includes 6400 & 6401, 4 credits)	I	9
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, and 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 *	CV *
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 Jt. 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. This will coincide with practical experiences of going off campus to do research in an ECE service. 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 *	CV *
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 (\$4.00 per student - available for students who do not do this in other subjects)	I	3

Achievement Standard offered:

Level 3:	Title of Standard:	I or E *	CV *
91461	Analyse a New Zealand health issue - sexual health	I	5

Cost: \$5.00 per student

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 *	CV *
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
91502	Examine a current physical activity event or trend or issue impacting on New Zealand society	I	4
91789	Devise strategies for a physical activity outcome	I	4

Contact persons: Mr L. Jones & Mr Jt. 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 *	CV *
91501	Demonstrate a quality performance of a physical activity in an applied setting	I	4

Unit Standards offered:

Level 3:	Title of Standard:	I or E *	CV *
22771	Plan beginner level coaching session for sport participants	I	4
22768	Conduct and review a beginner level coaching session	I	6
26224	Complete pre-competition preparations as an official at a competitive sport event	I	3
21414	Plan and lead a recreational activity	I	4

Achievement Standard offered:

Level 3:	Title of Standard:	I or E *	CV *
20673	Demonstrate knowledge of injury prevention and risk and injury management in sport and recreation	I	4

Contact person: Mr Jt. 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 *	CV *
91472	Respond critically to specified aspect(s) of studied written text(s), supported by evidence	E	4
91473	Respond critically to specified aspect(s) of studied visual or oral text(s), supported by evidence	E	4
91474	Respond critically to significant aspect(s) of unfamiliar written text(s) through close reading, supported by evidence	E	4
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
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

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 *	CV *
91475	Writing portfolio	I	6 (W)
91476	Valedictory speech	I	4
91479	Critical analysis of texts	I	4
91480	Close viewing	I	3
91472	Written texts	E	4 (R/W)

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 *	CV *
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 *	CV *
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. The courses are also suitable for speakers of other languages who wish to gain qualifications in their first or second language. Dependent on their language ability, students can 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.

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 *	CV *
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 *	CV *
90542	Whakarongo (Listening)	I	4
90782	Tuhituhi (Writing)	E	6
90783	Waihanga 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 13 MAC by HoF Mathematics discretion.

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	CV *
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

Cost: ICAS Mathematics Competition (optional)

Contact person: Mr A. Kitson



MATHEMATICS (13MAT)

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 *	CV *
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 *	CV *
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
91580	Investigate time series data	I	4
91587	Apply systems of equations in solving problems	I	3

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

Cost: The ICAS Mathematics Competition (optional)

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 HoD

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 *	CV *
91603	Demonstrate understanding of the responses of plants and animals to their external environment	E	5
91605	Demonstrate understanding of evolutionary processes leading to speciation	E	4
91606	Demonstrate understanding of trends in human evolution	E	4
91601	Carry out a practical investigation in a biological context, with guidance	I	4
91602	Integrate biological knowledge to develop an informed response to a socio-scientific issue (optional)	I	3
91604	Demonstrate understanding of how an animal maintains a stable internal environment	I	3
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 *	CV *
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 *	CV *
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 external; and from Year 12 Mathematics AS 91261 Algebra.

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	CV *
91521	Carry out a practical physics experiment that leads to a mathematical relationship	I	4
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 *	CV *
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
91387	Carry out an investigation in chemistry involving quantitative analysis	I	4
91412	Investigate the evidence related to dating geological event(s)	I	4
91415	Investigate an aspect of astronomy	I	4

Cost: There may be a cost for resources

Contact persons: Mrs L. Bourke-Heerikhuisen & 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 *	CV *
91405	Demonstrate understanding of accounting for partnerships	I	4
91406	Demonstrate understanding of company financial statement preparation	E	5

Level 3:	Title of Standard:	I or E *	CV *
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).

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 *	CV *
91379	Demonstrate an understanding of how internal factors interact within a business that operates in a global context	E	4
91382	Develop a marketing plan for a new or existing product	I	6
91383	Analyse a human resource issue affecting a business	I	3
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, sciences, and astronomy. We are proud that WBHS is the only school in New Zealand offering Classics Year 9 – Year 13. The Year 13 course continues to build on the skills and knowledge developed in earlier courses. However, previous study of Classics is not a requirement. The course covers at least four of the following topics in depth.

Entry requirement: 12 credits from Level 2 Classics or English or similar

Achievement Standards offered:

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

Contact person: Mr S. Crawford



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 *	CV *
91399	Demonstrate understanding of the efficiency of market equilibrium	E	4
91400	Demonstrate understanding of the efficiency of different market structures using marginal analysis	E	4
91401	Demonstrate understanding of micro-economic concepts	I	5
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 *	CV *
91426	Demonstrate understanding of how interacting natural processes shape a New Zealand geographic environment	E	4
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
91432	Analyse aspects of a geographic topic at a global scale	I	3
91431	Analyse aspects of a contemporary geographic issue	I	3

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 covers 19th century New Zealand History and an exploration of the History of modern Japan.

This course builds on content knowledge gained in Year 11 and 12 History.

Topics studied at Year 13 include:

- History of Japan
- The Decision to Drop the Bomb (Hiroshima and Nagasaki)
- Research topic on New Zealand history

Students will gain university preparatory skills in academic writing, independent research and critical thinking.

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	CV *
91434	Research an historical event or place of significance to New Zealanders, using primary and secondary sources	I	5

Level 3:	Title of Standard:	I or E *	CV *
91435	Analyse an historical event, or place, of significance to New Zealanders	I	5
91436	Analyse evidence relating to an historical event of significance to New Zealanders	E	4
91437	Analyse different perspectives of a contested event of significance to New Zealanders	I	5
91438	Analyse the causes and consequences of a significant historical event	E	6

Cost: There may be 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 *	CV *
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 T. Yung

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 *	CV *
91872	Analyse the interaction between psychological approaches	I	6
91874	Conduct independent psychological research with consultation	I	6
91875	Analyse how theories are applied within a field of psychological practice	I	4
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 *	CV *
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

SOCIAL ACTION ON FILM (13SAF)

Students will study and apply film-making concepts and sociological concepts, related to policies, rights and responsibilities. A blend of Social Studies and Media Studies; this subject is for the socially and environmentally conscious, and the politically aware. We will study the art of the social issue documentary (how to present your opinion as fact on film). Students will choose a social, environmental or political cause that they care about, and then document their efforts to bring about policy change through the medium of film. Students taking this course must be able to work with others, and have opinions about current events and issues.

Entry requirement: Open (must have Level 2 NCEA)

We will:

- Study documentary films, such as 'Bowling for Columbine', 'Black Fish', and '13th'.
- Identify an issue, relevant to you, that you would like to focus on.
- Plan a Social Action designed to change a policy related to this issue, and implement it.
- Create a short documentary film (4-6minutes), either as the Social Action, or to document it.

Achievement Standards offered:

Level 3:	Title of Standard:	I or E *	CV *
91599	Examine personal involvement in a social action(s) that aims to influence policy change(s)	I	6
91494	Produce a design for a media product that meets the requirements of a brief	I	4
91495	Produce a media product to meet the requirements of a brief	I	6
91493	Demonstrate understanding of a relationship between a media genre and society	E	4

Cost: Students will be advantaged by having their own DSLR camera, but a film kit including a camera, microphone and tripod may also be hired, for \$20 per day and a \$50 returnable bond. A USB memory stick is necessary to back up all film-based work.

Contact persons: Ms K. Sylva & 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 *	CV *
18212	Demonstrate knowledge of New Zealand as a tourist destination	I	5
18211	Destination Australia	I	5
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 *	CV *
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 the 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 *	CV *
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



PRE-TRADE ENGINEERING & AUTOMOTIVE (13PTE)

Student work will be assessed using the Unit Standards that were not undertaken in Year 12 but are included in the Mechanical Engineering Pre-Trade Certificate in Level 2, with a total of 62 credits. The course is for students desiring to enter the Engineering or Automotive trades and become skilled workers.

Entry requirement: Completion of the compulsory section 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.

Equipment required: 30 page A4 clear file, previous year's 2B8 hardcover workbook, 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 *	CV *
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 *	CV *
91610	Develop a conceptual design considering fitness for purpose in the broadest sense	I	6
91622	Implement complex procedures to make a specified product using a CNC machine	I	4
91613	Demonstrate understanding of material development	E	4
91631	Produce working drawings to communicate production details for a complex design	E	6

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

Contact person: Mr P. Yeoman



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