

Introduction

Dear Parents and Students

Now is the time for you to start making decisions about courses for next year. It is important that you consider carefully the pathways open to you at school and where they lead to in the working world beyond. This booklet is designed to help you with this.

The Curriculum Map in this introduction will help you to see where each subject goes within the school and the subject choice guidelines will enable you to see what is needed for entry into tertiary courses and various vocations.

NCEA – The National Certificate of Educational Achievement

NCEA is New Zealand's National Secondary School Qualification. It is part of the National Qualifications Framework (NQF) that also assesses beyond school into tertiary education and the workplace.

A brief outline:

- At school, students work towards gaining credits at NCEA Level 1, 2 or 3.
- These credits come from both Achievement Standards and Unit Standards.
- NCEA measures student attainment against an established standard or level.
- Assessment is of two types:
 - **Internal Assessment:** Within the school year
 - **External Assessment:** At the end of the year in formal national exams.

NCEA Certificates

Level 1	80 credits from Level 1 or above including 10 Literacy credits and 10 Numeracy credits.
Level 2	60 credits at Level 2 or above Plus 20 credits from Level 1 or above Plus the Level 1 Literacy and Numeracy required.
Level 3	60 credits at Level 3 or above Plus 20 credits from Level 2 or above. Note: A Level 3 Certificate does not guarantee entrance into university (see below) Plus the Level 1 Literacy and Numeracy requirements.

NCEA Level 1 Literacy and Numeracy

To gain a Level 1 Certificate, students must display a basic competence in literacy (English or Te Reo) and in numeracy. There are two ways this can be attained:

- Through specific literacy and numeracy Unit Standards.
- Or
- Through Level 1 Achievement Standards. This Level 1 literacy and numeracy is available to students in subjects other than English and Mathematics.

Note:

- Literacy and Numeracy only comes from certain Standards. If you look at the subject guides they will show you which subjects and which standards will give you literacy.
- Competency in Level 1 basic Literacy and Numeracy does not guarantee entry into Level 2.

Recognising High NCEA Achievement

NCEA Level 1-3 Certificate Endorsements

Recognition is given to students who achieve Achievement Standards at Merit and at Excellence level.

Merit Certificate – At least 50 credits at Merit or better.

Excellence Certificate – At least 50 credits at Excellence.

NCEA Course Endorsements

Students are able to gain a Merit or Excellence endorsement for high achievement in a course. To gain course endorsement students must gain the following in a given year:

- 14 or more credits in a course at Merit or Excellence.
- At least three external credits and three internal credits (except Physical Education and Visual Art at Level 3 which are internally assessed only).

The New Zealand Scholarship

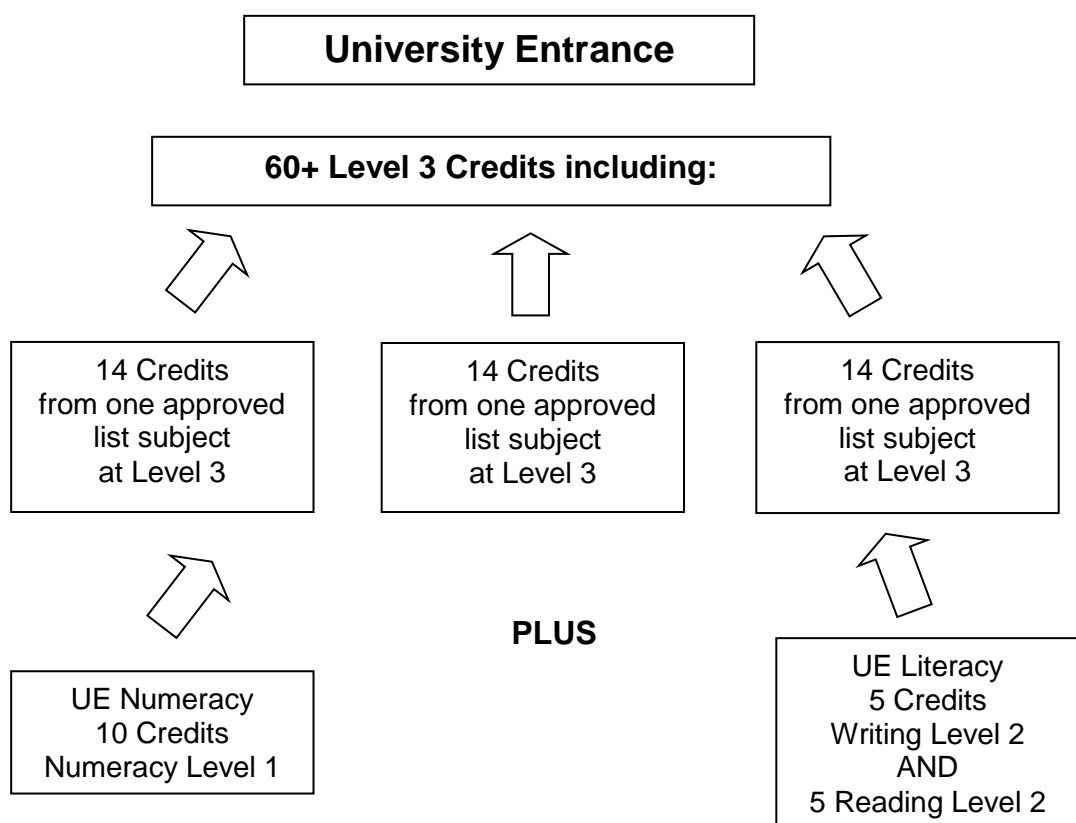
An additional academic challenge for students studying Level 3 subjects is to sit the NZQA Scholarship exams. While these exams draw from content in Level 3 subjects, students are required to demonstrate higher level abstract thinking.

Scholarship:

- Is administered by NZQA but is not part of NCEA and does not count for credits.
- Has monetary awards which are given for success in scholarship (see www.nzqa.govt.nz for details).

University Entrance

In choosing subjects from Year 11 upwards, students and parents need to be aware that not all school subjects directly support entry into university.



The University Approved list

Accounting	Home Economics
Agriculture & Horticulture	Indonesian
Biology	Japanese
Business Studies	Korean
Calculus	Latin
Chemistry	Mathematics
Chinese	Media Studies
Classical Studies	Music
Construction & Mech. Technology	Painting (Practical Art)
Cook Islands Maori	Photography (Practical Art)
Dance	Physical Education
Design (Practical Art)	Physics
Design & Visual Communication	Printmaking (Practical Art)
Digital Technologies	Processing Technologies
Drama	Religious Studies
Earth & Space Science	Samoan
Economics	Science
Education for Sustainability	Sculpture (Practical Art)
English	Spanish
French	Social Studies
Geography	Statistics
German	Technology
Health Education	Te Reo Maori
History	Te Reo Rangitara
History of Art	Tongan

Note: University Entrance does not guarantee entry to University. It is effectively a “right to apply”. Universities set their own criteria which students must achieve in addition to gaining University Entrance.

Waitakere College does not teach all of the above subjects.

Rank Score

Some universities are using a Rank Score for their selection process. The Rank Score gives weighting to the number of Achieved, Merit and Excellence credits students attain in their top 80 credits in Approved subjects.

The top 80 credits across a maximum of 5 subjects at Level 3 from the approved list are used:

For an Excellence 4 points are awarded

For a Merit 3 points are awarded

For an Achieved 2 points are awarded

These are then totalled and you are ranked.

At most universities entry to some courses needs specific subjects or requirements.

Auckland University also requires 17 English credits from Level 2 or 3 for any degree, although you can meet this requirement by passing one of their nominated courses in your first year there.

Please see Mr Sizer or Mrs Gibson in Careers to check on the requirements for any course you are interested in studying.

Selecting Subjects for Next Year

How do you decide what subjects to take?

Some important pointers:

- Take a lot of advice. Talk to:
 - The College's Careers Staff – Mr Sizer or Mrs Gibson
 - Heads of Department at the Futures Evening
 - Your subject teachers
 - Your Tutor teacher who knows you well

- Consider subjects that:
 - You are doing well at
 - You are enjoying
 - Match the career that you have in mind

- Many subjects at Year 12 and 13 have entry requirements. See individual subject descriptions for these prerequisites.

Level Requirements

Year 11

- All Year 11 students study English, Mathematics and a Science.
- Plus 3 other subjects.

Year 12

- All Year 12 students study English and Mathematics plus 4 other subjects at Level 1 or 2.

Year 13

- Students studying 3 or more Approved List subjects choose **5 subjects only**.
- All others choose **6 subjects**.

Provision of any courses described in this booklet is dependent upon student numbers and school resourcing. The final decision on whether a course will run is made by the College in February of the year of study.

Subject Choice Guidelines

These are recommendations only and not necessarily prerequisites.

Career	Background Subjects Required
Accountancy	See Business / Commerce.
Administration/PA	English, Mathematics, Computer skills.
Apprenticeships	Pre-trade or foundation courses are available. Check for individual trade requirements but the minimum is NCEA Level 2 English and Mathematics. Physics recommended. Some trades require an even higher achievement level.
Architecture	Degree required. A broad based course of study in senior school, Mathematics, Physics useful. Level 3 Painting, Design or DVC recommended as a portfolio of Art work is required.
Armed Forces	Officers: University Entrance needed. Apprenticeships and Combat Trades: Minimum NCEA Level 2 passes in English, Mathematics, Physics recommended. Check for specific trades. There are also aptitude tests you need to take in your desired trade. These are both physical and written.
Art and Design	Certificate through to Degree. Portfolio may be required.
Aviation	English, Calculus or Statistics and Physics recommended. There are several different pathways into this industry.
Building and Carpentry	Certificate through to Degree. English, Mathematics, Physics and Building recommended.
Business/Commerce	Certificate through to Degree. Mathematics, Statistics and English, Accounting and Business recommended.
Childcare	Certificate through to Degree.
Computing/IT	Certificate through to Degree. Mathematics, English and Digital Technology are useful.
Dentistry	See Health Sciences.
Economics	See Business / Commerce.
Electrician	See Apprenticeships. English, Mathematics, Physics required at Level 2.
Engineering: Civil, Electrical, Electronics, Computer Systems, Mechanical	Courses range from pre-trade to Certificate, Diploma and Degree level. Maths and English is recommended. Engineering, Physics, and Computing are also useful depending on the specialist area chosen.
Environmental Science	Degree required. English, Mathematics, Statistics, Biology and Geography are useful.
Farming	Level 2 NCEA in general subjects including English and Maths. Training providers have varying entry requirements through to Degree level.
Fashion Design	Diploma through to Degree. Mathematics, English, Art, Technology and Design are useful.
Finance	Maths, English, Accounting recommended. Bank trainee officer through to Degree level.
Fine Arts	See Art and Design.
Fitness Industry	Certificate courses through to Degree level. English, Physical Education and Biology useful.
Graphic Design	See Art and Design.
Hairdressing	English and Mathematics at Level 2. Pre-trade courses through to Apprenticeships.

Career	Background Subjects Required
Health Sciences First Year Course Entry into: Doctor, Dentistry, Optometry, Pharmacy, Medicine.	English, Chemistry, Biology, Physics, Mathematics are recommended. UE required but foundation courses available. All students need to include a Humanities subject e.g. History, English, Geography and Classics. Check extra requirements for Auckland University.
Horticulture	Certificate through to Degree. Biology, Chemistry, Mathematics and English are all useful.
Hospitality	Certificate through to Apprenticeships and Degree courses.
Interior Design	See Art and Design.
Journalism	Degree required. Broad education recommended, English plus History/Geography useful.
Law	Degree required. Broad education recommended, History and Classics useful. Students need to achieve excellent results in first year of university to continue studying.
Medical Imaging	Degree required. Useful subjects: English, Mathematics, Calculus or Statistics and minimum of one Science subject.
Motor Industry	See Apprenticeships. English, Mathematics, Physics recommended.
Music	Certificate through to Degree courses. Music recommended. Audition required for most courses.
Nursing	Degree required. English, Mathematics and Biology are recommended.
Occupational Therapy	Degree required. English, Biology and Mathematics are recommended.
Performing and Screen Arts	Certificate through to Degree course. Audition required.
Physiotherapy	Degree required. Biology, Chemistry and Physics are recommended.
Plumbing	See Apprenticeships. English, Mathematics, Physics recommended.
Police	Minimum Level 2 English and Maths. Full drivers licence, physically fit, in excellent health, able to swim. Must be 18 before starting Police training.
Project/Event Management	Certificate through to Degree. Some organisations have their own training program.
Psychology	Degree required. Classics or History useful.
Retail	Certificate course or on the job training.
Social Work	Degree required. General educational background. Need to be aged 20 and over, but may be accepted at 18 if mature and preferably with some relevant experience.
Sport	Certificate through to Degree. Physical Education and Biology are useful.
Teaching	Degree required. Wide range of subjects possible.
Tourism	Certificate through to Degree or on the job training.
Veterinarian/ Vet Nurse	Certificate through to Degree. Recommended subjects: Chemistry, Physics, Biology and Mathematics.

If in doubt please check with Careers staff.

Vocational Pathways-a new approach to Careers

The Ministry of Education after consulting with government agencies, education, industry and employer representatives created a map linking education and employment. It is known as Vocational Pathways. Vocational Pathways divides occupations into six main sectors:

Construction and Infrastructure (CI)
Service Industries (SI)
Creative Industries (C) or (CR)
Primary Industries (P) or (PI)
Manufacturing and Technology (MT)
Social and Community Services (SC)

Each sector has its own colour. Within each sector a wide range of Achievement and Unit Standards are seen as useful and recommended for that sector (known as sector related).



A student can gain a Vocational Pathway endorsement along with an NCEA Certificate at Level 2 if the credits achieved include a minimum of 60 credits from one or more pathway with at least 20 of these credits being from the list of sector related credits. This will be shown on the student's vocational profile and as an additional award on the NCEA certificate.

The purpose is that an employer or tertiary provider can see that a student has made option choices that match with their industries particular requirements. On the NZQA website students can look up what their own unique graph will look like. Here is a sample:



More information about Vocational Pathways can be found on the Youth Guarantee website <http://youthguarantee.net.nz/vocational-pathways/>. Subjects at Waitakere College that have standards aligned to one or more of the Vocational Pathways are shown in this booklet. Waitakere College also offers Vocational Pathways Programmes.

Gateway

Years 12/13 Level 2/3

Provides opportunities for Year 12/13 students who have achieved NCEA Level 1, to experience a job in their area of interest while completing Industry Unit Standards that count towards their NCEA Qualification. Students select Gateway as one of their options and are in the workplace for one day of each week. In school, students complete a course of study related to their chosen industry.

Health Careers Academy

Years 12/13 Level 2/3

For Year 12/13 students with a vocational interest in the health and community services industries. Students combine their learning in school with specialist learning taking place one day a week in a tertiary settings.

(Part of AWVA)

Mechatronics Academy

Year 12 Level 2

Combining computer programming and robotics students in this course spend time off-site and in tertiary settings developing thinking and practical skills in robotics technology.

(Part of: AWVA)

Services Academy

Years 12/13 Level 2/3

This offers Year 12/13 students a pathway for possible progression towards the police, armed forces, security and other related services. This program is for students who can benefit from direction, structure and personal discipline.

Vocational Pathways Programs

(Years 12, 13)

The College offers a number of special programs to give you a taste of life in a Tertiary College or in a workplace while still having support and other subjects that school offers.

You need to apply to Mrs Carter or Ms Howell to be part of these programmes.



Automotive Academy

Years 12/13

Open to Year 12/13 students. This allows students to make a start on their automotive pathway. Students combine workshop time with tertiary learning and experience in automotive workshops.

AWVA is the Auckland West Vocational Academy. It is an exciting innovation involving Waitakere College, Kelston Boys, Massey High, Green Bay High and Rutherford College. Supported by the Ministry of Education, it provides enhanced choice, opportunity and extension for students in Years 12 and 13.

See page 40 onwards for more details.

Engineering Academy

Years 12/13 Level 2/3

Open to Year 12/13 students who have completed Level 1. This allows students to make a start on their Engineering apprenticeship while still at school. Students combine workshop time with tertiary learning and experience in engineering workplaces.

(Part of AWVA)

Customer Service

Years 12/13 Level 2/3

Students gain experience in customer service through their weekly placement. This program also provides students with the necessary standards to be work ready, those required by employers in this sector and the Customer Service Award.

Hospitality Academy

Year 13 Level 3

This allows Year 13 students to extend their chef and hospitality skills and qualifications to a tertiary level by gaining experience both on and off-site in a commercial kitchen setting while completing NCEA qualifications.

(Part of AWVA)

Building Academy

Years 12/13 Level 2/3

Open to Year 12/13 students. This allows students to make a start on their Building pathway. Students combine workshop time with tertiary learning and experience in building workshops.

(Part of: AWVA)

Mahi-a-Toi Academy

Years 12/13 Level 2

This offers Year 12/13 students the opportunity to develop, more in-depth skills in Toi Māori at a local wananga with the guidance of specialist tutors

(Part of: AWVA)

Vocational Pathways

Matching Education and careers

	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Services	Creative Industries
Apprenticeships and NZ Certificates (NCEA Level 2)	Boat Builder	Automotive Electrician/Technician	Animal Attendant	Accounts Officer	Air Force Officer	Actor
	Bricklayer	Baker	Aquaculture Farmer	Aircraft Loader or Refueller Bank Worker or Mortgage Broker	Community Worker	Beauty Therapist
	Building Contractor	Boat Builder	Arborist Building & Construction Labourer	Bartender	Customs Officer	Body Artist
	Caretaker	Chemical Production Operator	Crop Farmer	Beauty Therapist	Dental Assistant	Clothing Designer
	Carpenter	Clothing Designer	Dairy Products Maker	Café/Restaurant Manager	Dispensing Optician	Clothing Pattern Maker
	Crane Operator	Clothing Pattern Maker	Dog Trainer	Chef	Emergency Management	Copywriter
	Electrician	Collision Repair Technician	Farm Worker	Cleaner	Fire-fighter	Dancer
	Floor & Waller Tiler	Dairy Products Maker	Fencer	Contact Centre Worker	Health & Safety Inspector	Film & Video Editor
	Floor Covering Installer	Electrician Food & Beverage Factory Worker	Fishery Officer	Fitness Instructor	Health Promoter	Film Camera Operator
	Landscape Gardener	Jeweller	Fishing Skipper	Flight Attendant	Immigration Officer	Florist
	Line Mechanic	Lighting Technician	Forestry & Logging Worker	Florist	Legal Clerk	Hairdresser
	Locksmith	Marine Engineer	Grounds person	Hairdresser	Library Assistant	Jeweller
	Mine/Quarry Worker	Meat/Seafood Processor	Horse Trainer	Hotel Manager	Minister	Make-Up Artist
	Painter & Decorator	Mechanical Engineering	Landscape Gardener	Legal Executive	Nanny	Media Producer
	Plumber, Gasfitter	Plastics Technician	Meat/Seafood Processor	Motor Vehicle Sales	Nursing Support & Care	Musician
	Property Manager	Telecommunications	Nursery Grower/Worker	Receptionist	Police Officer	Photographer
	Roading Construction	Tyre Technician	Ranger	Retail Manager	Recreation Coordinator	Sewing Machinist
	Roofer	Winemaker	Winemaker	Tourism Operator	Security Officer	Signmaker
	Scaffolder	Wood Machinist	Wood Processing	Truck Driver	Teacher Aide	TV Presenter
	Water Treatment				Translator	Upholsterer

	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Services	Creative Industries
Diploma (NCEA Levels 2 or 3)	Architectural Technician Civil Engineering Geospatial Specialist Interior Design Property Manager Quantity Surveyor Survey Technician	Aircraft Maintenance Architectural Technician Computer Support Database Administrator Electrical Engineering Science Technician Telecommunications	Forestry Manager Science Technician	Sales & Marketing Air Traffic Controller Office Manager Insurance Salesperson Flying Instructor	Anaesthetic Technician Career Consultant Early Childhood Teacher Librarian Medical Laboratory Techn Naturopath Paramedic Psychotherapist Teacher of ESOL Youth Worker	Advertising, Sales, Marketing Interior Designer Editor Architectural Technician Graphic Designer Web Developer Editor
Degree (Level 3 and University Entrance)	Architectural Technician Civil Engineer Energy Auditor Environmental Engineer Landscape Architect Mining Engineer Boat Designer Project Manager Surveyor Architect Environmental Engineer Mining Consultant	Agricultural Engineer Architect Biomedical Engineer Chemical Engineer Civil Engineer Food Technologist Forensic Scientist Game Developer Industrial Designer Chemist Mechanical Engineer	Agricultural Consultant Biotechnologist Environmental Scientist Forestry Scientist Geophysicist Landscape Architect Marine Biologist Microbiologist Veterinarian Zoologist Agricultural Scientist Geologist Horticultural Scientist	Accountant Aeroplane Pilot Economist Graphic Designer Industrial Designer Intelligence Officer Lawyer Meteorologist Pharmacist Project Manager Archivist Conservator Curator Dietician Medical Physicist	Cardiologist Dentist Education Advisor Environmental Health Officer Foreign Policy Officer Health Services Manager Medical Laboratory Scientist Social Worker Teacher Urban/Regional Planner Anaesthetist Audiologist Judge Psychiatrist Psychologist	Animator Architectural Technician Game Developer Industrial Designer Historian Landscape Architect Naval Architect Archivist Conservator Curator

