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Message from Mr Leach

This Option booklet contains the information on all courses that **may be** offered at Botany Downs Secondary College in 2012 for our Year 11, 12 and 13 students. Your choice of courses will determine our senior school timetable structure and enable us to plan for resources and staffing. At Year 11 English, Mathematics and Science will be compulsory and students can choose three other options from a wide range of subjects. In Year 12 only English will be compulsory and students can choose 5 other options. In Year 13 there are no compulsory subjects and students will choose 5 subjects.

The choice of options may impact on opportunities in later years' of study so it is important that you keep your subject choices as varied as possible. Your College years are a time for exploring ideas and possibilities and finding out more about yourself. In making these decisions it is essential to look forward and consider carefully all the options. Your subject choices will be influenced by your interests, abilities and proposed career path. It is important that you are interested in and enjoy the subjects you choose. Some subjects which are not related strongly to a career may provide a base for a lifelong interest or hobby. Subjects have value in the development of both specific and generic skills, not just knowledge content. Many students have not yet decided on a specific career path so it is important that you research the careers that may interest you and discuss with or get advice from the Careers Adviser, your teachers, your mentor and parents.

Students entering Year 11 at Botany Downs Secondary College must realise that this year is the start of a three year senior programme. This programme will lead to further tertiary studies. Although some students will leave at the end of Year 12 for a variety of reasons or courses, the senior programme should be viewed as a three year commitment. Students must be prepared to work hard and tackle the requirements of the rigorous, advanced courses on offer. In return the school guarantees that we will give the best teaching, guidance and support to help all students achieve the highest level of success possible.

Botany Downs Secondary College implemented NCEA in 2006, which has a mixture of internal assessments and rigorous external examinations. NCEA allows students the opportunities to excel in their own areas of strength. The reporting of individualised results, instead of giving a mark, provides a breakdown of student attainment in every aspect of the subject. Thus giving both students and parents more accurate information upon which to make decisions about future option choices and career pathways. This document contains information for you to familiarise yourself with NCEA. If students or parents want more information about NCEA please contact me at school.

Your Whanau Leaders and teachers will expect you to be familiar with everything contained in this book so you can make informed decisions about your future options.

Option selection sheets will be issued on Monday 15th August. We ask that students return their option choices by **Monday 22nd August**. There will be the opportunity for students to make changes to their options later in the year. If not enough students select a particular option it may not be offered next year.

We hope that this process will start you thinking about the avenues open to you. If you need more information, please contact the school or talk to our staff members.

Mike Leach
Principal

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Mathematics and Statistics	<i>I. Bennet</i>
Science	<i>C. Clay</i>
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Introduction

This Senior option booklet provides students and parents/guardians with information about the subjects available in Years 11, 12 and 13 at Botany Downs Secondary College. Students have a wide range of options to choose from and it is critical that decisions about option choices are made carefully. It becomes increasingly difficult for students to change academic direction as they progress further into senior secondary school and tertiary institutions. Students should endeavour to follow a broad-based general course of study for as long as possible. Early specialisation is not recommended.

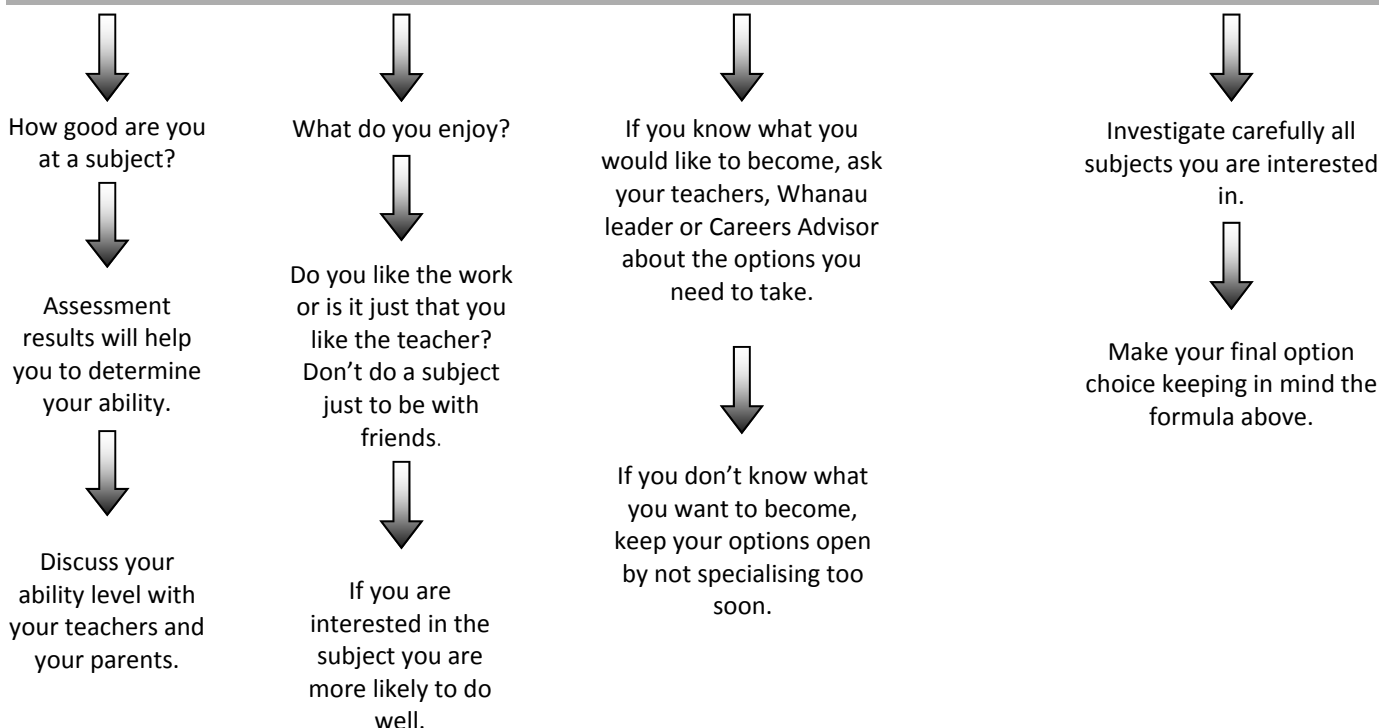
As you plan your course and choose your options check:

- The level at which each subject stops
- The **prerequisites and co-requisites** for entry to each subject
- The number of credits generated by each subject
- The proportion of internal and external assessment in each subject
- Whether the subject offers **Achievement Standards** or **Unit Standards** or a combination
- Whether or not the subject is on the University approved list of subjects (see page 15)
- What subjects, credits, grades are required for entry to the University or Technical institute course you are interested in
- The total subject course costs including the cost of fieldwork
- That this subject equips you with skills, content and understandings you need to enter a certain career path
- The pathway model to see what this subject will enable you to do in future years
- That you have sufficient flexibility to change your course design if your career goals change

To make good decisions you need the right information. Discuss your subject choices with your family, teachers, Whanau House leader and Careers Advisor. **Think carefully, consult widely and choose wisely.**

All course cost amounts are estimated.

Ability + Interest + Occupation = Option Choice



The National Certificate of Educational Achievement NCEA

NCEA is the national qualification for senior secondary school students in New Zealand. Individual subjects are subdivided into Achievement Standards some of which are assessed internally and some externally through NZQA national examinations. Each standard clearly identifies what a student must do to in order to achieve the standard.

Students will complete courses at each level of the National Qualifications Framework and will be assessed on the learning attained in each course. Each assessment generates credits that contribute to a certificate at Level 1, 2 or 3 of the National Qualification Framework. These credits are achieved through:-

Internally Assessed Achievement Standards

These Achievement Standards are assessed as part of the learning programme e.g. research assignments, portfolios, practical work, tests

Externally Assessed Achievement Standards

These Achievement Standards assess knowledge and skills through a national external examination

Unit Standards

These are internally assessed standards that are assessed at the school during the year as learning takes place and can also contribute credits to the NCEA

Supplementary Courses developed by external providers

These are courses that students can complete alongside their selected subjects e.g. IC3. These courses can also contribute credits to the NCEA

There are two different levels of Achievement for **Unit Standards:-**

Not Achieved N or NA

Students have not met the required standard

Achieved A

Students have met the required standard

Curriculum Alignment Process: The Ministry of Education, in association with the New Zealand Qualifications Authority, contracted national subject associations to review all curriculum-related standards so that they are aligned to The New Zealand Curriculum. This review has addressed issues of duplication between standards and ensured credit parity. The reviewed standards will be implemented over three years with Level 1 introduced in 2011, Level 2 in 2012, and Level 3 in 2013.

There are four different levels of Achievement for **Achievement Standards:-**

Not Achieved N or NA

Students have not met the required standard

Achieved A

Students have met the required standard

Merit M

Students have achieved the standard with merit

Excellence E

Students have achieved the standard with excellence

Endorsement of Certificates

All successful students receive NCEA certificates at the end of each year's study (level 1, level 2, and level 3). These certificates show that a student has achieved the required number of credits at a particular level (including specified literacy and numeracy requirements at level 1). Each standard carries a specific number of credits which count towards certificates.

To encourage students to do their best, those who gain sufficient credits at merit (50 credits at merit or above) or excellence (50 credits at excellence level) will have this recognised on their certificates, for example a student can receive an NCEA level 1 certificate with merit or an NCEA level 1 certificate with excellence. In 2010:

- of 41,025 candidates gaining NCEA Level 1, 28.4% gained endorsement with Merit, and 9.1% gained endorsement with Excellence.
- of 37,452 candidates gaining NCEA Level 2, 20.2% gained endorsement with Merit, and 6.5% gained endorsement with Excellence.
- of 24,626 candidates gaining NCEA Level 3, 22.4% gained endorsement with Merit and 5.5% gained endorsement with Excellence.

Course endorsement – commenced in 2011

Secondary school students will be able to gain further recognition of their achievements from 2011 with the introduction of Merit and Excellence endorsement in course areas. Students will receive an Excellence endorsement if they gain 14 or more credits at Excellence level, while students gaining 14 or more credits at Merit (or Merit and Excellence) will gain a Merit endorsement. For Course Endorsement, at least 3 of the 14 credits must be from internally assessed standards, and 3 from external assessment (national examinations), to demonstrate students are competent in both forms of assessment. This endorsement will be recorded on the student's Result Notice.

Reporting Not Achieved

Not achieved results have been reported on the results notice for both internally and externally assessed standards since 2008.

NCEA Level 1 Credit Overview

All Year 11 students at Botany Downs Secondary College will take **six** subjects. Three of these are **compulsory** (Maths, English and Science) and three are optional. Each subject generates between 15-21 possible credits. Students will therefore have the opportunity to achieve up to 126 possible credits. Some subjects have Unit Standards. These generate credits towards the qualification but they do not gain Merit or Excellence grades.

Achieving Level 1 NCEA

In order to be awarded NCEA Level 1 students must achieve at least **80 credits at Level one or higher**. There are additional literacy and numeracy requirements that must be met to achieve NCEA Level 1. Students must achieve at least **10 literacy credits** and at least **10 numeracy credits** in either specified achievement standards or unit standards (refer to additional information on page 10). The quality of the National Certificate for each student will depend on the total number of credits gained and the grades achieved.

Overview of Year 11 Courses by qualification type

<i>Achievement Standards</i>	<i>Combination</i>	<i>Unit Standards</i>
Accounting	English - Foundation	English - Pre Year 11
Art History	ESOL	
Art - Visual	Food & Hospitality	
Business Studies		
Dance		
Design and Visual Communication		
Drama		
Economics		
Electronics		
English		
Fashion and Design Technology		
Food Technology		
French		
Geography		
Health Education		
History		
Digital Technology		
Japanese		
Mathematics		
Mathematics – Extension		
Mathematics- Alternative		
Media Studies		
Music		
Physical Education		
Science		
Science – double option		
Science – Foundation		
Technology – Multi-materials		

There is a great deal of additional information available from the NZQA website: www.nzqa.govt.nz

NCEA Level 2 Credit Overview

All Year 12 students at Botany Downs Secondary College will take **six** subjects. English is **compulsory** but the remaining five subjects are optional. Each subject generates between 15-21 possible credits. Students will therefore have the opportunity to achieve up to 126 possible credits. Some subjects have Unit Standards. These generate credits towards the qualification but they do not gain Merit or Excellence grades.

Achieving Level 2 NCEA

In order to be awarded NCEA Level 2 students must achieve at least **80 credits**. At least 60 of these credits must come from Level 2 or higher and up to 20 credits can come from Level 1. The quality of the National Certificate for each student will depend on the total number of credits gained and the grades achieved.

Overview of Year 12 Courses by qualification type

<i>Achievement Standards</i>	<i>Combination</i>	<i>Unit Standards</i>
Accounting	English Level 2 for ESOL students	Automotive Engineering
Art History	Mathematics – Foundation	Early Childhood Education
Biology	Photography	Electronics
Business Studies		Employment Skills
Chemistry		Financial Studies
Classical Studies		Food and Hospitality
Dance		Outdoor Education
Design		Sports Leadership
Design and Visual Communication		Travel and Tourism
Digital Technology		
Drama		
Earth and Space Science		
Economics		
English Level 2 Band A		
English Level 2 Band B		
Abridged English Level 2 Band C		
Fashion Design		
Food Technology		
French		
Geography		
Health Education		
History		
Japanese		
Mathematics		
Mathematics Alternative		
Mathematics - Extension		
Media Studies		
Music		
Physical Education		
Physics		
Technology – Multi-materials		
Visual Art		

There is a great deal of additional information available from the NZQA website: www.nzqa.govt.nz

NCEA Level 3 Credit Overview

All Year 13 students at Botany Downs Secondary College will take **five** subjects. There are **no compulsory subjects** in Year 13. Each subject generates between 15-24 possible credits. Students will therefore have the opportunity to achieve up to 120 possible credits. Some subjects have Unit Standards. These generate credits towards the qualification but they do not gain Merit or Excellence grades.

Achieving Level 3 NCEA

In order to be awarded NCEA Level 3 students must achieve at least **80 credits**. At least 60 of these credits must come from Level 3 or higher and up to 20 credits can come from Level 2. The quality of the National Certificate for each student will depend on the total number of credits gained and the grades achieved.

Overview of Year 13 Courses by qualification type

Achievement Standards	Combination	Unit Standards
Accounting	English Level 3 Band M	Early Childhood Education
Art History	English Level 3 Band R	Electronics
Biology	English Year 13 - Level Two	Financial Studies
Business Studies	English ESOL (ENS)	Food and Hospitality
Chemistry		Outdoor Education
Classical Studies		Sports Leadership
Dance		Travel and Tourism
Design		
Design and Visual Communication		
Digital Technology		
Drama		
Economics		
English Level 3 Band U		
Fashion and Design Technology		
Food Technology		
French		
Geography		
Health Education		
History		
Japanese		
Mathematics with Calculus		
Mathematics with Calculus - Alternative		
Media Studies		
Music Studies		
Photography		
Physical Education		
Practical Music		
Physics		
Science		
Statistics and Modelling		
Statistics and Modelling - Alternative		
Technology – Multi-materials		
Visual Art		

There is a great deal of additional information available from the NZQA website: www.nzqa.govt.nz

Literacy and Numeracy - 2011

The Ministry of Education and NZQA are changing the literacy requirement for NCEA Level 1 from 8 credits to 10 credits and the numeracy requirement for NCEA Level 1 from 8 credits to 10 credits. The changed requirements will come into effect in 2011 in a transition arrangement, and be in full effect in 2012.

Students can meet the new requirements by achieving new unit standards in literacy and numeracy or by achieving specified achievement standards.

New literacy requirement for 2012 onwards - Minimum of 10 credits through

<i>Either</i>	Unit standards	Package of three literacy unit standards (total of 10 credits - all three required)
<i>Or</i>	Achievement standards	Specified achievement standards available through a range of subjects (minimum total of 10 credits)

New numeracy requirement for 2012 onwards - Minimum of 10 credits through

<i>Either</i>	Unit standards	Package of three numeracy unit standards (total of 10 credits – all three required)
<i>Or</i>	Achievement standards	Specified achievement standards available through a range of subjects - (minimum total of 10 credits)

Transition for 2011

There will be a transition year in 2011 before moving totally to the new requirements from 2012.

For the transition year in 2011 students can achieve the literacy and numeracy requirement for NCEA Level 1 by meeting the:

- ◆ literacy requirement using **either** the new 10 credit literacy requirement **or** the current 8 credit literacy requirement using current specified unit and internally assessed achievement standards
- ◆ numeracy requirements using **either** the new 10 credit numeracy requirement **or** the current 8 credit numeracy requirement using current specified unit and internally assessed achievement standards.

However, a student cannot mix and match between the new and current requirement within the literacy or within the numeracy requirement.

New Literacy and Numeracy Unit Standards

These standards have been designed to be used in schools, tertiary and workplace programmes and support the principle of embedded literacy and numeracy.

The standards have been designed using the following definitions:

- ◆ Literacy is the written and oral language people use in their everyday life and work. It includes reading, writing, speaking, and listening. Skills in this area are essential for good communication, active participation, critical thinking and problem solving.
- ◆ Numeracy is the bridge between mathematics and daily life. It includes the knowledge and skills needed to apply mathematics to everyday family and financial matters, work and community tasks.

Literacy and Numeracy Achievement Standards

A wide range of achievement standards have been identified as eligible to meet the requirements.

The standards have been selected using the following definitions:

- ◆ Literacy to meet the demands of the New Zealand Curriculum at Level 6. These standards provide the scope for students to demonstrate reading, writing, speaking and listening skills.
- ◆ Numeracy to meet the demands of the New Zealand Curriculum at Level 6. These standards provide the scope for students to demonstrate number, measurement and statistical skills.

Additional information on numeracy and literacy can be accessed on the [NZQA web site](#).

Scholarship

Scholarship is an external assessment for top secondary students. Scholarship examines course material related to level 3 standards derived from up to level 8 of the New Zealand Curriculum that students study in year 13. It does not attract credits nor contribute towards a qualification but the fact that a student has gained a Scholarship appears on the Record of Achievement. Scholarship assessments are demanding and require students to demonstrate high-level critical thinking and analytical skills, a comprehensive understanding of key content, skills and ideas as well as advanced written language skills. About 3 per cent of Year 13 students studying each subject at level 3 will get Scholarship, if they reach the standard that has been set. Each Scholarship assessment carries two passing grades – Scholarship (S) and Outstanding Scholarship (O).

Successful Scholarship students gain substantial monetary awards. A Scholarship in just one subject receives \$500, as a single payment. All the other awards result in payments spanning three years of successful tertiary study. These awards are outlined in the following table.

Premier Award	<ul style="list-style-type: none">○ For the very top 5 to 10 candidates. The minimum eligibility requirement to be considered for this award is at least three Scholarships at "Outstanding" level. The number of recipients for this award is restricted and achieving the minimum requirement will not guarantee an award.○ \$10,000 each year for up to three years as long as candidates maintain at least a 'B' grade average in tertiary study
Outstanding Scholar Award	<ul style="list-style-type: none">○ For the next 40-60 top candidates. The minimum eligibility requirement to be considered for this award is three Scholarships with at least two at "Outstanding" level or more than three Scholarships with at least one at "Outstanding". The number of recipients for this award is restricted and achieving the minimum requirement will not guarantee an award.○ \$5,000 each year for three years as long as candidates maintain a 'B' grade average in tertiary study
Scholarship Award	<ul style="list-style-type: none">○ For candidates who get Scholarship in three or more subjects.○ \$2,000 each year for up to three years as long as candidates maintain a 'B' grade average in tertiary study
Top Subject Scholar Award	<ul style="list-style-type: none">○ For the top candidate in each one of the 33 Scholarship subjects.○ \$2,000 each year for up to three years as long as candidates maintain a 'B' grade average in tertiary study
Single Subject Awards	<ul style="list-style-type: none">○ For candidates who get Scholarship in one or two subjects.○ A 'one-off' award of \$500 per subject (maximum payment \$1000)

Scholarship (continued)

To be eligible to receive a Scholarship award a student must be a New Zealand citizen or a permanent resident and be enrolled full-time at a New Zealand secondary school in the year of the examination. To be eligible for the top awards a student must attain Scholarship in three subjects in the same year. For candidates sitting up to three Scholarship assessments there will be no cost other than the usual \$75 NCEA examination entry fee.

Fee structure for domestic candidates	
Fee	Fee
Entry for all NQF standards (includes NCEA) and up to 3 Scholarship subjects	\$76.70
Additional Scholarship entries	\$76.70 per subject

Fee structure for international fee paying candidates	Fee
Entry for all NQF standards	\$383.30
Entry for each Scholarship subject	\$102.20 per subject

The New Zealand Qualifications Authority has collated useful resources to support Scholarship candidates including past examination papers. These can be accessed at the following web site:

<http://www.nzqa.govt.nz/scholarship/subjects/resources.html>

Teachers in each subject area will endeavour to offer support to Scholarship students. This could take the form of providing supplementary resources, such as additional reading and study materials, as well as tutorials outside class time. The onus however remains on the student to complete the necessary work to prepare them effectively for this level of assessment. A final commitment to the Scholarship assessment is not required till the entry deadline in Term 3.

Scholarship subjects supported at Botany Downs Secondary College include English, French, Japanese, Biology, Chemistry, Physics, Science, Statistics and Modelling, Mathematics with Calculus, Accounting, Art History, Drama, Media Studies, Music Studies, Visual Arts, Economics, Geography, History, Classical Studies, Physical Education, Technology and Design and Visual Communication. Prospective Scholarship students will either be invited to join Scholarship subject tutorials or students will be invited to give an expression of their interest during Term 2 of the school year.

NCEA Standards Overview

All Year 11, 12 and 13 students will be assessed against National Qualification Framework Achievement Standards or Unit Standards.

For each subject studied there are 5 – 9 Achievement Standards or Unit Standards. Each Achievement Standard and Unit Standard is worth a set number of credits, generally between 2 and 6 credits. Most subjects will offer courses of 15 – 21 possible credits. This booklet contains a list of the **possible** Achievement Standards and Unit Standards and their credit values, which could make up each subject next year. **The final choice of Standards for each course is at the discretion of each individual HOLA.** The standards selected will be published in the senior subject course outlines and issued to all students at the start of the new academic year.

For each subject studied there will be a list of Standards provided to the students in the course outline:

For example: This is Year 11 NZ STUDIES list of Standards

Each subject is subdivided into approx 5 - 9 modules of work. These can be either Unit Standards or Achievement Standards

Some assessment is based on work completed and assessed at school (**Internal**) and some assessed by a national examination (**External**)

An Achievement Standard will start with AS

A Unit Standard will start with US

NCEA Internal Achievement Standards/Unit Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90210	History 1.2	Communicate historical ideas	Internal	4
AS90217	Social Studies 1.3	Conduct a Social Studies inquiry	Internal	6
AS90218	Social Studies 1.4	Examine differing values positions	Internal	4
US5085		Describe and explain resource use	Internal	4
US90208		Consider a work of fiction from a geographic perspective	Internal	2
NCEA External Achievement Standards				
Number	Subject Reference	Title	Internal/ External	Credits
AS90211	History 1.3	Interpret historical resources	External	4
Possible credits available				24 credits

Students will be assessed on what they achieve in their work during the year in these modules. The level of achievement needed to gain credit in each module is called its **Achievement Standard**

If the standard is achieved, a student earns credits

The total number of credits available in each subject varies. For NZ STUDIES it is 24 credits.

Entry to Tertiary Education

Tertiary Education providers in New Zealand require certain entry criteria to be met before students are enrolled for a course. This option booklet provides a general guideline but students must check the specific course entry criteria for the tertiary institution they wish to attend. The Careers Advisor has a detailed list of prerequisites for entry to courses run by tertiary providers in New Zealand.

Information about Auckland University for secondary school students can be accessed at:
<http://www.auckland.ac.nz/uoa/home/for/secondary-students-and-schools>

Common entrance standard requirements for University:

The requirements for the common entrance standard remain as:

- **A minimum of 42 credits as follows**
 1. A minimum of 14 credits at level 3 or higher in an approved subject
 2. A minimum of 14 credits at level 3 or higher in another approved subject
 3. A minimum of 14 credits at level 3 or higher in no more than 2 additional domains or approved subjects
- **14 credits in numeracy at Level one or higher made up of credits in Mathematics or Statistics and Probability or unit standards 26623, 26626, 26627**
- **4 credits at Level two or above in Reading*** drawn from a specified list of standards
- **4 credits at Level two or above in Writing*** drawn from a specified list of standards

(*The lists of specified Reading and Writing standards can be accessed from <http://www.nzqa.govt.nz/ncea/ue/index.html>)

For entry to the University of Auckland.....

All applicants must gain the Common Entrance Standard outline above and, in addition:

- All applicants will be ranked according to their best 80 credits at Level 3 or higher over a maximum of five approved subjects from the approved subjects list (see next page for list of approved subjects) weighted by the level of achievement attained in each set of credits. Some courses have special entry requirements based on the subjects listed in Table A and Table B below. **Students wishing to attend University are strongly encouraged to take courses that offer achievement standards as Merit and Excellence grades will be used to rank and differentiate applicants for entry to Tertiary courses.**
- The specific requirements for entry into each course are given on page 16.

TABLE A	TABLE B
Classical Studies	Accounting
English	Biology
Geography	Chemistry
History	Economics
History of Art	Mathematics with Calculus
Te Reo Maori OR	Physics
Te Reo Rangatira	Statistics and Modelling

NCEA Level 3 Approved Subject List

Approved Subject	Field/Subfield/Domain/Standards
Accounting	Domain Accounting - Generic
Agriculture & Horticulture	Domain Agricultural & Horticultural Science
Biology	Domain Biology
Chemistry	Domain Chemistry
Chinese	Domain Chinese
Classical Studies	Domain Classical Studies
Computing	Domain Generic Computing US18741 and US18749
Cook Islands Māori	Domain Cook Islands Māori
Dance	Domains Dance Choreography, Dance Performance, Dance Perspectives
Design (Practical Art)	AS90515, AS90516, AS90517, US9072, US9073
Drama	Subfield Drama
Economics	Domain Economics
English	Subfield English
French	Domain French
Geography	Domain Geography
German	Domain German
Graphics	Subfield Design
Health Education	Domain Health Education
History	Domain History
History of Art	Domain Art History
Indonesian	Domain Indonesian
Japanese	Domain Japanese
Korean	Domain Korean
Latin	Domain Latin
Mathematics with Calculus	Domain Trigonometry, Domain Geometry, Domain Calculus AS90638, AS90639, US5267, US11102, US12344
Statistics and Modelling	Subfield Statistics and Probability, AS90644, AS90647 US5256, US5264, US5262, US5272
Media Studies	Domain Media Studies
Music Studies	Domain Music Studies or Making Music
Painting (Practical Art)	AS90659, AS90663, AS90667, US9066, US9067
Photography (Practical Art)	AS90660, AS90664, AS90668, US9064, US9065
Physical Education	Domain Physical Education
Physics	Domain Physics
Printmaking (Practical Art)	AS90661, AS90665, AS90669, US9069, US9068
Samoan	Domain Samoan
Science	Domain Core Science, Domain Earth Science
Sculpture (Practical Art)	AS90662, AS90666, AS90670 US9070, US9071
Spanish	Domain Spanish
Social Studies	Domain Social Studies
Technology	Domain Technology – General Education
Te Reo Māori	Subfield Reo Māori
Business Studies (2012)	This subject is to be added to the approved subject list in 2012

Applicants for some limited entry qualifications may be required to have taken specific subjects and gained a specific number of credits in those subjects (refer to table below as a general guide). **All students must be very clear on what the entry requirements are for the specific course they wish to pursue at University or an Institute of Technology. Entry to these courses depends on the prerequisites being met.** The rank score for entry to University of Auckland will be calculated by awarding four points for Excellence, three points for Merit and two points for Achieved for up to 24 credits in each approved subject taken at Level 3 in the last two years. The maximum available score is 320. The table below outlines entry prerequisites for a range of courses at **Auckland University**.

PROGRAMME(Bachelor)	REQUIREMENTS FROM TABLE A	REQUIREMENTS FROM TABLE B	OTHER REQUIREMENTS
Architecture	Minimum 16 credits in one subject	Minimum 16 credits in one subject	Portfolio, (Interview may be required)
Arts	Students will be selected on the basis of their rank score		Nil
Business and Information Management	Rank score with a minimum 16 credits in each of three subjects from Table A and/or Table B		Nil
Commerce	Rank score with a minimum 16 credits in each of three subjects from Table A and/or Table B		Nil
Education	Students will be selected on the basis of their rank score		Interview and Referees' Reports
Engineering	Rank score with a minimum 18 credits in each of Maths with Calculus and Physics. Canterbury also requires Chemistry		Also rec are any of CHE, BIO, CLS, ENG, GEO, HIS, ARH, Te Reo Maori
Fine Arts	Students will be selected on the basis of their portfolio of creative work. An interview may be required.		Portfolio and Interview
Health Sciences	Rank score with a minimum 18 credits in one subject from Table A and one subject from Table B		Nil
Law	Students must be offered a place in another bachelor's degree. Entry will be based on the guaranteed scores for the other bachelor's degree. Entry to LLB is from stage 2		Also rec are any of CLS, ECO, ENG, GEO, HIS, ARH, Te Reo Maori, languages
Music	Students will be selected on the basis of their rank score		Audition is required for Performance Music
Nursing	Rank score with a minimum 16 credits in one subject from Table A and 16 credits from one of Biology, Chemistry, or Physics		Biology is recommended
Performing Arts	Nil	Nil	Audition and/or interview/CV
Pharmacy	Rank score, an interview and with a minimum 18 credits in each of Biology and Chemistry		Interview
Physical Education	Students will be selected on the basis of their rank score		Interview and Referees' reports
Planning	Students will be selected on the basis of their rank score		Nil
Science	Students will be selected on the basis of their rank score		Nil
Social Work	Students will be selected on the basis of their rank score		Interview, Referees' reports
Technology	Students will be selected on the basis of their rank score		Nil
Visual Arts	Nil	Nil	Portfolio/Interview

University Entrance Information

Here is a guide to what Universities may be looking for. This will require you to look into the future to make sure you choose Year 11, 12 and 13 options that will lead you onto the correct options in future years.

ENGINEERING

Auckland University—Level 3 NCEA course must include Mathematics with Calculus and Physics. A much higher level than the minimum University entry is required and the Engineering School also expects to specify higher literacy standard requirements than the minimum. Canterbury University—Level 3 NCEA must include Mathematics with Calculus, Physics and Chemistry. A higher than minimum University entry is required.

LAW

Most Universities have not stipulated any prerequisites, but a good mastery of written and spoken English is required so some Level 3 NCEA subjects such as English and language rich subjects are recommended. Law is open entry to Year 1 students at university.

MEDICINE

Auckland University—students will be required to enrol in either a Bachelor of Science (Biomedical) or a Bachelor of Health Sciences for their first year of study. Students will then be selected for Medical School at the end of their first year of study depending on their academic results, the UMAT test and an interview procedure. A much higher minimum level of literacy and numeracy will be required than for open entry to University and students must choose Year 13 subjects from a list provided by the University.

Otago University—Students must enrol in Health Science in their first year. Selection into Medical School takes place at the end of the first year and those who reach the required academic level will be required to take a UMAT test and an oral assessment test.

NURSING

University Entrance is required including credits in Science to Level 2. Auckland University requires a higher level than the minimum University entry, including a minimum of 16 credits in a Table A subject and 16 credits in either Biology or Physics or Chemistry.

OPTOMETRY

Auckland University—There is no direct entry from Secondary School. Students are required to take a first year in Biology, Chemistry and Physics, so it would be helpful to have done these subjects at school.

PHARMACY

Otago University—The same requirements as Medicine, a B average is required in the first years papers. Students can enter into Year 1 from Auckland.

Auckland University—Admission is based on academic merit and an interview. Students must take Level 3 Chemistry and Biology and 3 other Level 3 subjects. A higher level than minimum University entry is required.

PHYSIOTHERAPY

Otago University—The same requirements as Medicine, a B average required in the first years papers.

AUT—no specific subject prerequisites, but a higher level of competency in spoken and written English is required. A higher than minimum University entry is likely to be required. A minimum of 56 credits in three approved subjects at Level 3 is required.

PHYSICAL EDUCATION

University of Auckland—Open entry i.e. the minimum University entrance qualification is required. No specific subjects are recommended, but an interest in pursuing your own sporting endeavours is required. Students must be at least 17 years old at time of entry. Interview and referees report.

Otago University—Biology and Mathematics with Statistics are recommended. A higher level than the minimum University entry is likely to be required.

SCIENCES

Physics and Chemistry are very difficult to pick up at Tertiary level without a minimum of Year 12 and preferably some credits at Level 3 NCEA. For most Science courses minimum rank score of 150 is required.

TEACHING

University of Auckland—For entry to primary and early childhood teaching a minimum rank score of 140 is required. Students must be at least 17 years old at time of entry. Interview and referees report required.

VETERINARY

Massey University—A very good understanding of Science so a recommended Level 3 NCEA course including Chemistry, Biology, Physics and at least one of the Mathematics. Strong written and oral English skills are also important. There is open entry (i.e. the minimum University entrance qualification is required) to enrol in Semester 1, but selection into Semester 2 is based on grades in the compulsory Semester 1 papers and an aptitude test.

Students for whom English is not their first language may also be required to demonstrate their proficiency in English by achieving minimum scores in special tests.

Recommended Subjects

This is a **guide only** for some study areas where a background in certain school subjects maybe useful.

There are many other study areas that do not make any recommendations.

Note: REL = subjects Rich in English Language (i.e. English, Geography, History, Classical Studies and Art History).

Year 11	Year 12	Year 13
Architecture		
Art or Graphics Mathematics Science	Design and/or Painting or Graphics Mathematics	Design and/or Painting or Graphics One REL subject
Business		
Mathematics Economics Accounting	Mathematics Economics Accounting	Mathematics (Stats or Calc) Economics Accounting
Law		
No specific subjects	No specific subjects	Minimum 1 REL subject
Engineering		
Mathematics Science	Mathematics Physics Chemistry	Maths with Calculus Physics Chemistry
Biological Sciences		
Mathematics Science	Mathematics Biology Chemistry	Maths with Stats Biology Chemistry
Health Sciences (Dentistry, Medicine, Medical Science, Physiotherapy, Pharmacy, Veterinary)		
Mathematics Science	Mathematics Preferably 2 out of 3 sciences; Biology, Chemistry, Physics	Maths with Stats Preferably 2 out of 3 sciences; Biology, Chemistry, Physics 1 REL subject Veterinary requires all 3 Sciences
Health Science (Nursing, Occupational Therapy)		
Mathematics Science	Mathematics (optional) Minimum 1 out of 3 sciences; Biology, Chemistry, Physics	Minimum 1 of the following; Biology, Chemistry, Physics, Science, Mathematics Plus 1 REL subject
Technology / Physical Sciences		
Mathematics Science	Mathematics Physics Chemistry	Maths with Calc Physics Chemistry

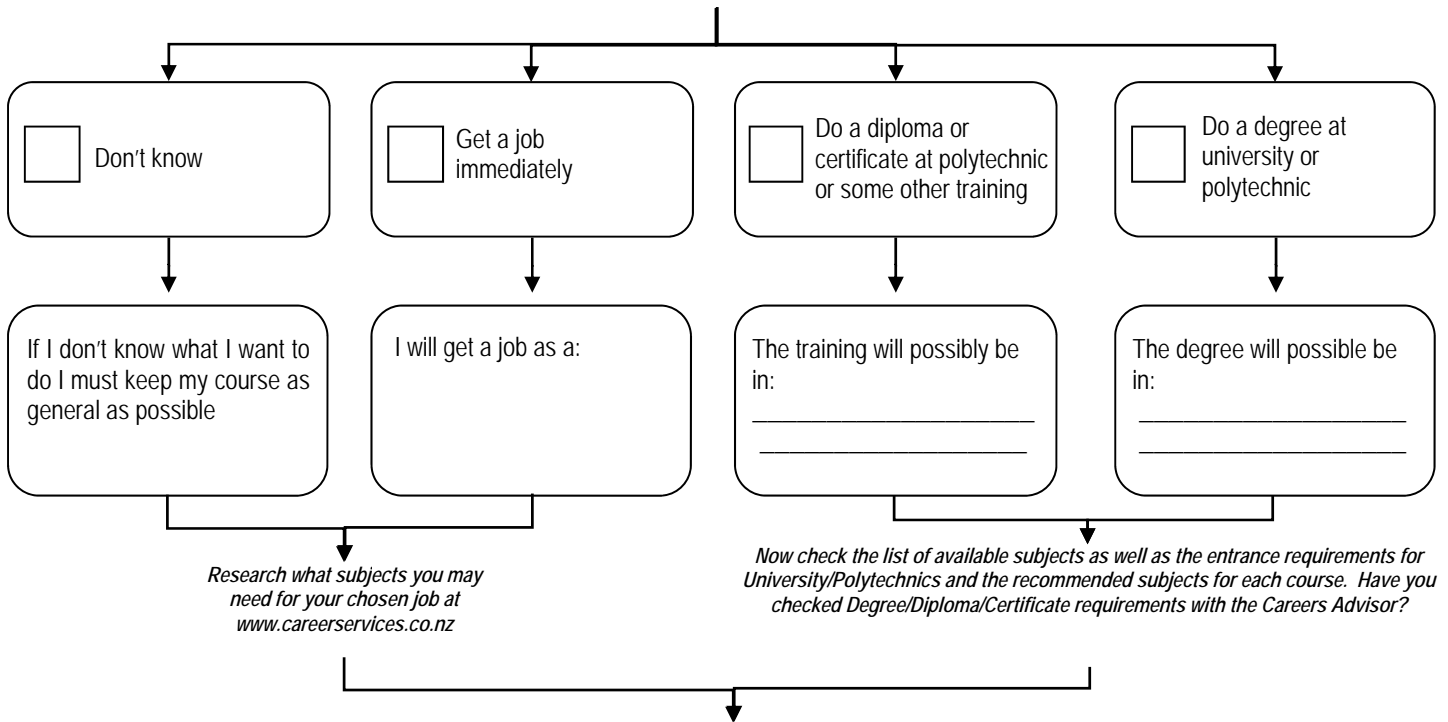
BDSC Subject Structure – 2012

Learning Areas	Year 9	Year 10	Year 11	Year 12	Year 13
English	English (ENG) English ESOL (ESL)	English (ENG) English ESOL (ESL) Media Studies (MED)	English (ENG) English – Foundation (ENL) Pre Year 11 English (ENP) (designed for ESOL students) English for ESOL (ENS) ESOL English (ESL) Media Studies (MED)	Abridged English C Band (ENC) Level 2 English for ESOL (ENS) Level 2 English A band (ENA) Level 2 English B band (ENB) Media Studies (MED)	Level 3 English U band (ENU) Level 3 English R band (ENR) Level 3 English M band (ENM) Level 2 English - Yr 13 (ENC) Level 2 English for ESOL (ENS) Media Studies (MED)
Languages	French (FRE) Japanese (JAP)	French (FRE) Japanese (JAP) Spanish (SPA)	French (FRE) Japanese (JAP)	French (FRE) Japanese (JAP)	French (FRE) Japanese (JAP)
Mathematics	Mathematics (MAT)	Mathematics and Statistics (MAT)	Mathematics (MAT) Mathematics - Extension (MAE) Maths - Alternative (MAA)	Mathematics (MAT) Mathematics – Alternative (MAA) Mathematics – Extension (MAE) Mathematics – Foundation (MAF)	Maths with Calculus (MAC) Maths with Calculus - alt. (MCA) Statistics and Modelling (MAS) Statistics and Modelling - alt. (MSA)
Science	Science (SO)	Science (SO) Electronics (ELE)	Science (SO) Science - Double option (SOS) Science - Foundation (SCF) Electronics (ELE)	Biology (BIO) Chemistry (CHE) Electronics (ELE) Physics (PHY) Earth and Space Science (SO)	Biology (BIO) Chemistry (CHE) Electronics (ELE) Physics (PHY) Science (SO)
Social Sciences	Social Studies (SOS)	Social Studies (SOS) Ancient Civilisations (ANC) Business Studies (BUS) Investigative Geography (IGO)	Accounting (ACC) Business Studies (BUS) Economics (ECO) Geography (GEO) History (HIS)	Accounting (ACC) Business Studies (BUS) Classical Studies (CLS) Economics (ECO) Employment Skills (EMP) Financial Studies (FIN) Geography (GEO) History (HIS) Travel and Tourism (TSM)	Accounting (ACC) Business Studies (BUS) Classical Studies (CLS) Economics (ECO) Financial Studies (FIN) Geography (GEO) History (HIS) Travel and Tourism (TSM)
Technology	Food Technology (TEF) Design and Visual Communication (DVC) Multi Materials Technology (TEM) Textiles Technology (TET)	Food Technology (TEF) Design and Visual Communication (DVC) Multi Materials Technology (TEM) Textiles Technology (TET)	Digital Technologies (DIT) Fashion and Design Technology (FAD) Food and Hospitality (FAH) Food Technology (TEF) Design and Visual Communication (DVC) Multi Materials Technology (TEM)	Automotive Engineering (ATM) Digital Technologies (DIT) Early Childhood Education (ECE) Fashion Design Technology (FAD) Food and Hospitality (FAH) Food Technology (TEF) Design and Visual Communication (DVC) Multi Materials Technology (TEM)	Digital Technologies (DIT) Early Childhood Education (ECE) Fashion Design Technology (FAD) Food and Hospitality (FAH) Food Technology (TEF) Design and Visual Communication (DVC) Multi Materials Technology (TEM)
The Arts	Art Practical (ART) Dance (DAN) Drama (DRA) Music (MUS)	Art Practical (ART) Dance (DAN) Drama (DRA) Music (MUS)	Art Practical (ART) Art History (ARH) Dance (DAN) Drama (DRA) Music (MUS)	Art History (ARH) Dance (DAN) Design (DES) Drama (DRA) Music (MUS) Photography (PHO) Visual Art (ART)	Art History (ARH) Dance (DAN) Design (DES) Drama (DRA) Music Studies (MUS) Practical Music (MUP) Photography (PHO) Visual Art (ART)
Health & Physical Education	Core Health & PE (HPE)	Core Health & PE (HPE) PE – option (PED) Outdoor Leadership (ODL)	Core Health & PE (HPE) Physical Education (PED) Health Education (HED)	Health Education (HED) Outdoor Education (OED) Physical Education (PED) Sports Leadership (SPL)	Health Education (HED) Outdoor Education (OED) Physical Education (PED) Sports Leadership (SPL)

Planning Page

Over the next few weeks you must fill in this chart, in consultation with your parents, teachers, Heads of Learning and the Careers Advisor. The more information you gather about your career options the more informed your final decisions will be:

When I leave school I hope to..... (choose one path)



For this plan to work I will need to take the following subjects in Year 13 NCEA Level 3:

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____

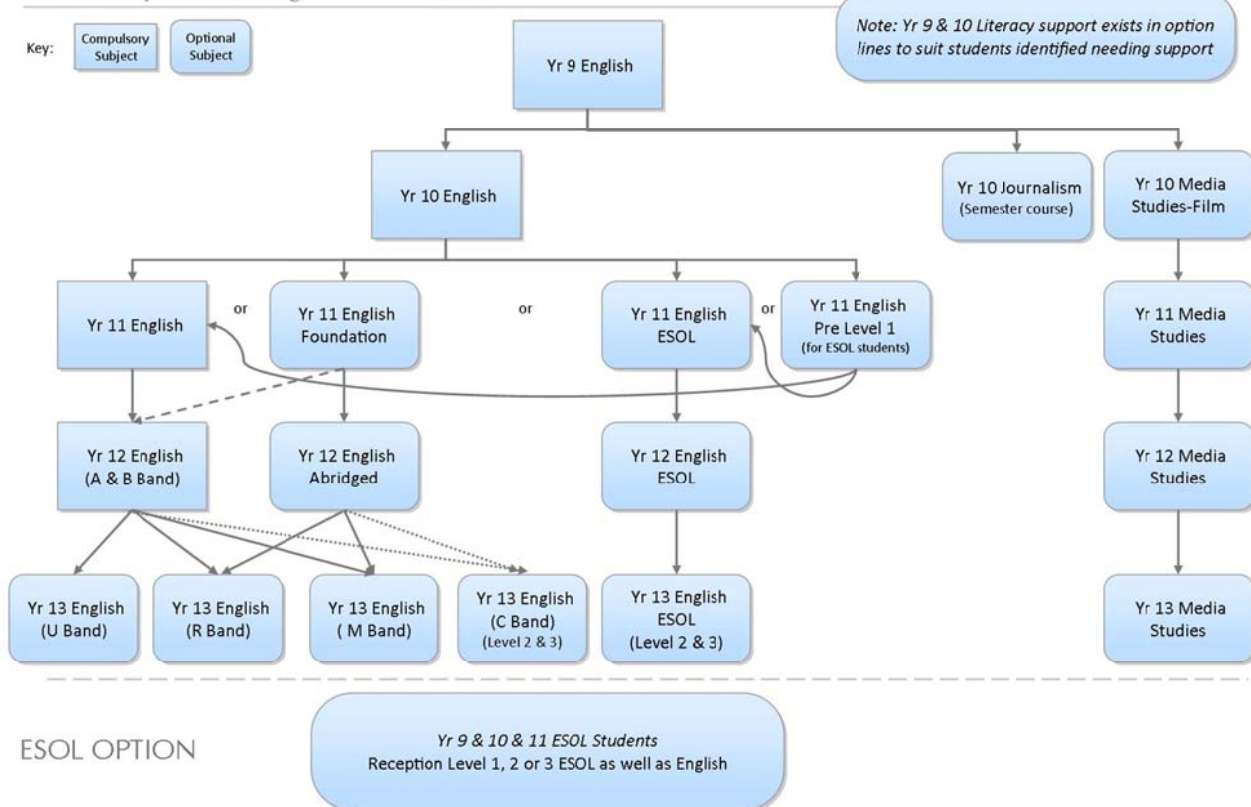
So I will need to take the following subjects in Year 12 NCEA Level 2:

- 1 ENGLISH
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____

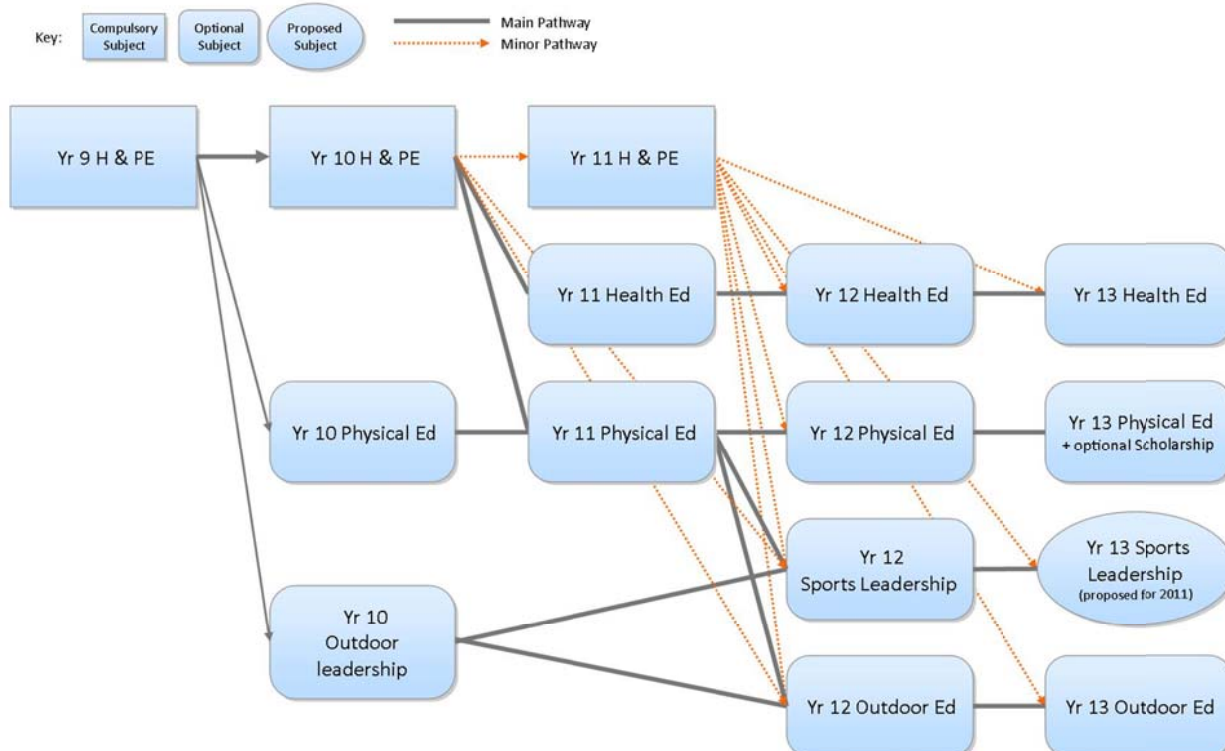
And I will need to take the following subjects in Year 11 NCEA Level 1:

- 1 ENGLISH
- 2 MATHEMATICS
- 3 SCIENCE
- 4 _____
- 5 _____
- 6 _____

BDSC subject flow diagram—ENGLISH



BDSC subject flow diagram—HEALTH AND PHYSICAL EDUCATION



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