

# Otago Boys' High School

Course selection for 2018

NCEA Level 2

Vision: Best for Boys Through the Right Learning

**Respect** - Whakaute | **Courage** - Toa | **Honour** - Hōnore | **Perseverance** - Manawanui | **Excellence** - Hiranga

# Boys, parents and caregivers

**Welcome to your second year of NCEA.** The aim of this booklet is to assist you with your course planning for next year. The handbook contains information on all subjects currently offered in the senior school.

Be assured that every effort will be made to provide a course of study that will meet your needs and assist you to achieve your academic and career goals.

Advice on course planning is available from the staff listed below. For advice on individual subjects please talk to your teachers and the staff member listed in the information for each subject. Read this booklet carefully, and keep it for later reference.

Some quick tips of advice

- Know the prerequisites (what must be studied beforehand);
- Plan ahead (what your course leads to);
- Consult with the adults you live with and with the teachers in charge of subjects.
- Follow ***your*** preferences and choices, not those of your mates.

**Key staff for 2018** - You may wish to ask advice from the following staff

Guidance Counsellor	Mr Rust
Careers Advisor	Mr Swan
Academic leader	Mr Hooper

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## **General information**

Classes will be organised and timetabled to operate only if there are sufficient numbers of students interested and if staffing and resources are available. There may be composite (mixed level) classes. Video conference and/or Correspondence School courses may have to be applied for. There is also the possibility of linking with Otago Girls' High School for very specific courses that are not able to be delivered here at Otago Boys' High. Selection into such courses would undergo a rigorous process and would not expect to affect more than a few students. Please speak with Mr Hooper for further information. For the vast majority of students the school's policy is to have students taught here at school by teachers.

## **Specific information for Year 12 students in 2018**

Students study SIX subjects including an English course. Most Level 2 (Year 12) subjects have prerequisites based on your achievement in NCEA Level 1. Students may be directed into a multi-level course combining Level 1 and Level 2 subjects or into alternative courses if they have not achieved the requirements needed to continue a subject at Level 2.

Level 2 subjects involve a significant academic "step up" compared with Level 1 and are the foundation for your success in Year 13 and beyond. Ensure that the Year 12 subjects you choose keep your options open for Year 13 and give you the foundation and necessary prerequisites for continued study.

Some combinations of subjects are not possible at Level 2 in 2018. For example, you are not allowed to do Level 2 P.E and Level 2 Sport. The credits offered for qualification overlap each other too much.

## **Recognising high achievement**

You can gain a NCEA with Merit or Excellence. If you gain enough credits for your NCEA and 50 or more of them are at Excellence, you will earn NCEA with Excellence. If you get 50 or more credits at Merit (or a mix of Merit and Excellence), you will earn NCEA with Merit.

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## Course endorsements 2018

A course endorsement provides recognition for a student who has performed exceptionally well in an individual course. The key objective of a course endorsement is to motivate students to achieve their potential in one or more courses. Students will gain an endorsement for a course if, in a single school year, they achieve:

- 14 or more credits at Merit or Excellence at the lower level that supports the endorsement
- at least 3 of these credits from externally assessed standards and 3 credits from internally assessed standards. Note this does not apply to Physical Education and level 3 Visual Arts.

## Centurions & Silver Oak Leaf

Centurions recognise those students who have passed all internals and externals through the course of the year. It is acknowledged through the award of the Silver Oak Leaf, a permanent symbol of our school motto “Recti Cultus Pectora Roborant”. At various other times through the year, in senior assemblies and in year group assemblies, those students who are still maintaining a 100% pass rate will be acknowledged in the company of their peers.

## How to make your subject choices

From the evening of Thursday 14<sup>th</sup> September you will notice a new hyperlink down the left hand-side of your online KAMAR portal ([portal.obhs.school.nz](http://portal.obhs.school.nz)) called **Course Selection**. (Not the app but the online portal).

Subject choices **must be submitted by Friday 29<sup>th</sup> September**

If you change your mind before the deadline please submit another round of choices and please inform Mr Hooper by email. We are always here to help and advise. Please do not be afraid to drop me an email over the next few days or leave a message on the phone.

[mark.hooper@obhs.school.nz](mailto:mark.hooper@obhs.school.nz) 03 474 3049

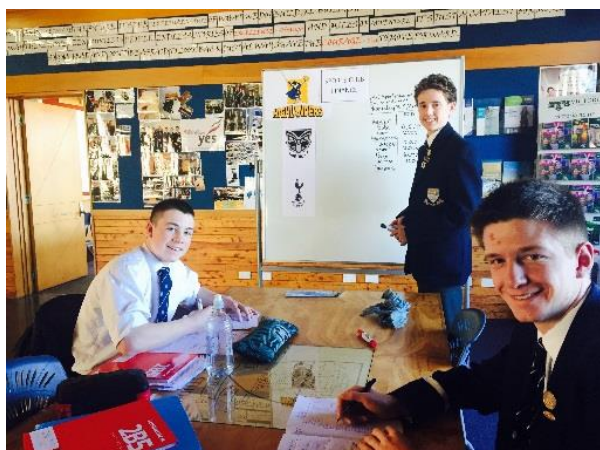
Good luck and don't rush into any decisions. Take a week or so to finalise your decisions.

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# Accounting in 2018

For further information please see Mr Gledhill  
[kevin.gledhill@obhs.school.nz](mailto:kevin.gledhill@obhs.school.nz)



## NCEA Level 2 / Course code: 12ACC

### Entry information

A minimum of 12 NCEA Accounting Level 1 credits including the 5 credits in Achievement Standard 90978. Year 12 students wishing to study Accounting for the first time should seek advice from Mr Ashwin.

### Outline of Course

Students are introduced to the foundations of Accounting and the principles on which it is based. Major parts of the course include processing transactions using a software package, presenting, reporting and analysing financial information, a study of accounting systems and decision making.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Demonstrate understanding of accounting concepts for a sole proprietor.	4	91174	External	N	N
Demonstrate understanding of accounting processing using accounting software.	4	91175	Internal	N	N
Prepare financial information for an entity that operates accounting subsystems.	5	91176	External	N	N
Interpret accounting information for sole proprietors that operate accounting subsystems	4	91177	External	N	N
Demonstrate understanding of an accounts receivable subsystem for an entity.	3	91179	Internal	N	N
Demonstrate understanding of an inventory subsystem for an entity	3	91386	Internal	N	N

### Course costs

The cost of the Level Two workbook is \$40.

**Where this qualification can lead** Accounting is the language of business and commerce spoken world-wide. That is why it remains a popular career choice and important skill useful in any business career.

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# Agricultural and Horticultural Science in 2018

For further information please see Mr Ashdown  
[tim.ashdown@obhs.school.nz](mailto:tim.ashdown@obhs.school.nz)



## NCEA Level 2 / Course code: 12AGR

### Entry information

There are no prerequisites for this course.

### Outline of Course

The course develops the skills from year 11, although you do not need to have done year 11 to start the course. It continues the broad based study of Agriculture and Horticulture and is suitable for any student keen on a career in primary industries, applied science, or simply an interest in cultivating their own food.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Extended investigation	4	91289	internal	N	N
livestock reproduction technology	4	91293	internal	N	N
Livestock management practice	4	91295	internal	N	N
Environmental impact of primary production	3	91298	internal	N	N
Land use for primary production	5	91297	external	N	N
Chainsaw safety course	13	unit standard	internal	N	N

### Course costs

Course book \$35. Notebook

### Where this qualification can lead

This course leads to further study at level 3 and is a good basic preparation for work in primary industries.

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# Visual Art in 2018

For further information please see Ms Taylor  
[kirsten.taylor@obhs.school.nz](mailto:kirsten.taylor@obhs.school.nz)



## NCEA Level 2 / Course code: 12ART

### Entry information

This is a course that is best undertaken following a year of attaining 14 Credits in Level 1 Art. However, students are sometimes accepted upon the presentation of a personal collection of artwork that reflects enthusiasm and some ability.

### Outline of Course

Students are required to research information methods and ideas in the context of a drawing study in art. The student will then extend their study into a portfolio of work that includes a series of still life/architectural drawing studies and a selection of painting studies looking at appropriate artistic models. The students will have the option of exploring both subject matter and models of personal interest to them and may include mixed media use of Printmaking and Photography.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Produce a resolved work that demonstrates control of skills appropriate to cultural conventions.	4	91325	Internal	N	N
Demonstrate an understanding of methods and ideas from established painting practice appropriate to painting.	4	91306	Internal	N	N
Produce a systematic body of work that shows understanding of art making conventions and ideas within painting.	12	91321	External	N	N

### Course costs

The cost of this course is \$80.00 and is based on the student having retained their A2 art bag from the previous year. It includes but is not limited to: 1 Set of A2 paints, watercolour paints, 6 Brushes, 4 Pencils, 2x Sharpie Markers, Erasers, A mixture of weighted papers, canvas paper. Printmaking/Photography materials will be an additional cost.

### Where this qualification can lead

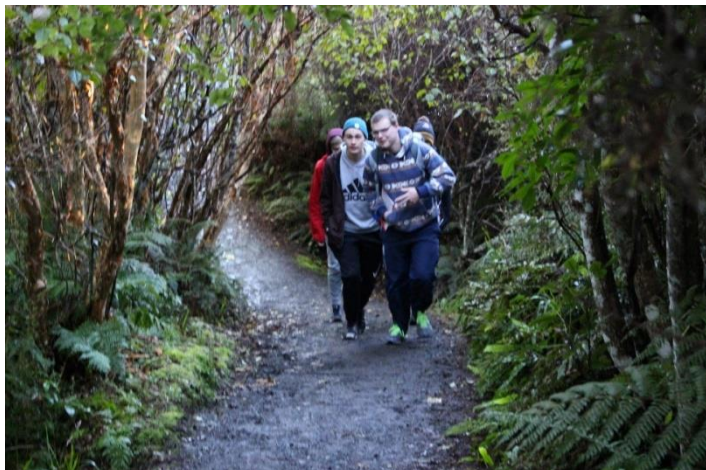
NCEA level 3 or with the inclusion of a portfolio and an interview the student may gain access into a Foundation Arts course at Polytechnic.

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# Biology in 2018

For further information please see Ms Casey or Mr Twaites  
[pru.casey@obhs.school.nz](mailto:pru.casey@obhs.school.nz) [kent.twaites@obhs.school.nz](mailto:kent.twaites@obhs.school.nz)



## NCEA Level 2 / Course code: 12BIO

### Entry information

Success in Level One Sciences leads well to level two Biology studies. Students who are achieving in English and/or Mathematics will also do well in Biology.

**12 credits gained in Level 1 Science and 10 credits in level 1 English are pre-requisites for this course.**

### Outline of Course

Biology studies are fun as well as academically challenging. This science relies on the abilities of students to read and write well, to work together in teams and to engage in the natural world and guardianship rangatiratanga of our natural heritage taoka, relating biological principles to what they observe in the world around them. Molecular biology, cell biology, genetics, ecology and evolution are all studied at this level.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Ecology of Otago Estuaries	4	91158	Internal	N	N
Plant and Animal Biology	3	91155	Internal	N	N
Carry out an investigation	4	91153	Internal	N	N
Cell biology	4	91156	External	N	N
Genetic variation and change	4	91157	External	N	N

### Course costs

SciPad Workbook and separate Revision SciPad \$32 for both

Field trips: three year start fieldtrips total cost is \$12

Marine Sciences Field Trip to Portobello \$50

### Where this qualification can lead

Level 3 Biology studies

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# Chemistry in 2018

For further information please see Mr Golder  
[ryan.golder@obhs.school.nz](mailto:ryan.golder@obhs.school.nz)



## NCEA Level 2 / Course code: 12CHE

### Outline of Course

Chemistry is the science of electrons. Chemists take into account where electrons are and where they want go during chemical reactions. The understanding of chemistry leads to an understanding of the properties of atoms, ions and molecules. Chemistry is seen as a bridging subject that can help in the understanding of many other subjects particularly in the STEM disciplines.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Quantitative analysis	4	91161	Internal	N	N
Current chemistry technologies	3	91163	Internal	N	N
Oxidation-reduction reaction	3	91167	Internal	N	N
Organic chemistry	4	91165	External	N	N
Structure and bonding	5	91164	External	N	N

### Course costs

Internal and external SciPad (textbook) \$8.50 and \$20 respectively.

### Where this qualification can lead

Chemistry may be studied as a NCEA Level 3 subject.

### Information regarding vocational pathways

Chemistry is considered to be a multidisciplinary subject; this means it is highly synergetic with many STEM subjects particularly medicine, physiology, engineering, pharmacology and agriculture. This is just a small selection of the places that Chemistry could take a young man.

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# Food and Nutrition in 2018

For further information please see Ms Irving or Ms Moore.

[jacqueline.irving@obhs.school.nz](mailto:jacqueline.irving@obhs.school.nz) [emma.moore@obhs.school.nz](mailto:emma.moore@obhs.school.nz)



## NCEA Level 2 / Course code: 12FDN

### Entry information

Students wishing to undertake this course must maintain a high standard of food safety and hygiene as this underpins all credits attached to practical assessment tasks.

### Outline of Course

This is a full year course based on units offered by Service IQ and Achievement Standards. Students wishing to acquire Unit Standard 167 Food Safety will have the opportunity via a Star Funded Course to complete this qualification. Students will undertake practical cooking in the Specialist Room one period a week throughout the year. A course outline will be provided to students at the start of 2018 to confirm standards if any standards need adjusting to meet student needs.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Analyse beliefs, attitudes and related practices related to a nutritional issue for families in New Zealand	5	AS 91302	Internal	N	Y
Analyse issues related to the provision of people with specific food needs.	5	AS 91299	Internal	N	Y
Analyse the relationship between wellbeing, food and the determinants of health.	4	AS 91300	External	N	Y
Cook Foods by Frying	2	US 13271	Internal	N	N
Cook Foods by Roasting	2	US 13278	Internal	N	N
Prepare Fruit and Vegetable Cuts	2	US 13289	Internal	N	N
Prepare and Present Sandwiches for Service.	2	US 13281	Internal	N	N

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## **NCEA Level 2 / Course code: 12FDN ... continued ...**

### **Course costs**

There is a cost of \$150 which includes all ingredients and consumable materials and Service IQ Books used by students undertaking this course throughout the year in the specialist food room. This can be paid by instalments throughout the year.

### **Where this qualification can lead**

This course leads to Food and Nutrition at Year 13 which is a University Entrance subject. Students studying Food and Nutrition can take a career pathway into any of the following Sports Nutrition/ Food, Agriculture and Business Marketing/ Bachelor of Culinary Arts/ Food Science/ Catering Industry/ Product Design and Analysis/ Dietician/ Food Production/ Quality Assurance and any aspect of food related arenas including Hospitality.

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# Digital Technologies in 2018

For further information please see Mrs Bennett or Mr South  
[nicole.bennett@obhs.school.nz](mailto:nicole.bennett@obhs.school.nz) [mike.south@obhs.school.nz](mailto:mike.south@obhs.school.nz)



## NCEA Level 2 / Course code: 12DGT

### Entry information

It would be expected that boys would have at least 14 credits in NCEA Level 1, Digital Technology, including credits in **at least three** of Level 1 achievement standards 1.41 Digital information 1.43 Digital Media, 1.46 Computer programming.

### Outline of Course

This course is assessed internally using Digital Technology and Generic Technology achievement standards and covers a range of practical computing topics in advance of Level 1 including, database, computer programming, and web design. A total of 17 credits are available.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Advanced digital information – Database & Dynamic Linking	6	91368	Internal	N	N
Advanced digital media – Web Design	4	91370	Internal	N	N
Advanced computer program - Python	3	91373	Internal	N	N
Conceptual Design – Web Design & Research	6	91356	Internal	N	N

### Where this qualification can lead

Provides students with the more advanced practical computing skills required for them to do year 13 Digital Technology in the following year. It will develop pupils ability so they can go on to do more in depth work with relational databases, Python programming at an advanced level and Advanced Conceptual program design work.

### Information regarding vocational pathways

<https://www.careers.govt.nz/jobs-database/it-and-telecommunications/>  
<https://www.futureintech.org.nz/80/sector/digital-technology-jobs-overview>  
<https://www.futureintech.org.nz/>

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# Earth and Space Science in 2018

For further information please see Mr Ashdown  
[tim.ashdown@obhs.school.nz](mailto:tim.ashdown@obhs.school.nz)



## NCEA Level 2 / Course code: 12ESS

### Entry information

There are no entry requirements for this course.

### Outline of Course

This course is a mixture of units studying geology and space science. It is a full NCEA course and focusses on teaching geology in a New Zealand context, it is a mixture of internal and external standards. The course is an interesting blend of topics and is challenging and engaging for all students regardless of their ability.

Possibly an *optional* field trip to the North Island Volcanic sites in the October holidays for 6 days, depending upon student interest, linked to 91189 and 91191.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Liquefaction investigation	4	91187	internal	N	N
Death of the dinosaurs	4	91188	internal	N	N
Geology of Dunedin	4	91189	internal	N	N
Spacecraft design	4	91190	internal	N	N
Extreme earth events in NZ	4	91191	external	N	N
Life and death of stars	4	91192	external	N	N

### Course costs

Course text book is required (\$32) and note book.  
*Optional* 6 day field trip (about \$6-800)

### Where this qualification can lead

The qualification can lead to further study at level 3, it is suitable for any student with an interest in the practical application of science as well as those who wish to study geology or earth sciences at a higher level. It is a useful subject to combine with Chemistry / Biology to broaden scientific understanding.

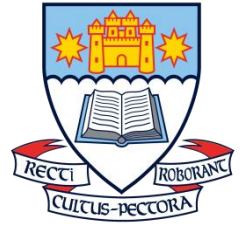
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# Economics in 2018

For further information please see Mr Pratley  
[gwyn.pratley@obhs.school.nz](mailto:gwyn.pratley@obhs.school.nz)



## NCEA Level 2 / Course code: 12ECO

### Entry information

It is expected that you will have passed two internal and two external standards at Level 1 Economics to be prepared to study Level 2 Economics. If you did not study Level 1 Economics then entry is at the discretion of the TIC who will assess your readiness to cope with the Level 2 workload based on your Level 1 NCEA results.

### Outline of Course

The course provides a framework of macro-economic theory and provides a good grounding for future study in the subject. The course covers the topics of Unemployment, Inflation, International Trade and Economic Growth and looks at the role of Government in New Zealand Economy.

### Assessments resulting from the course learning

This is a full year course and will be designed to meet the needs of the learners from the range of standards available below. A mix of internally assessed and externally assessed credits will be offered. The focus is on the achievement of these credits at Merit and Excellence to gain preferential entry to university study and subject endorsement. Level 2 students are also encouraged to enter the University of Auckland NZ Economics Competition. Level 2 Economics standards will also contribute to reading and writing credits for University Entrance Literacy.

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## NCEA Level 2 / Course code: 12ECO ... continued ...

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Analyse inflation using economic concepts and models	4	91222	External	No	Yes
Analyse international trade using economic concepts and models	4	91223	External	No	Yes
Analyse economic growth using economic concepts and models	4	91224	External	No	Yes
Analyse unemployment using economic concepts and models	4	91225	Internal	No	No
Analyse how government policy and contemporary issues interact	6	91227	Internal	Yes	No

### Course costs

Students are encouraged to purchase the Year 12 NCEA workbook which helps reinforce and supplement the material covered during class time. This will cost approximately \$35.00.

### Where this qualification can lead

Within School: To Level 3 Economics

Tertiary and Careers: To degrees such as Bachelor of Commerce or Arts. Polytechnic courses such as National Diploma in Business Studies or Management. Careers such as Valuer, Actuary, Lawyer, Economist, Sociologist, Teacher, Planner, Accountant, Statistician, Personnel

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# English in 2018

For further information please see Mr Tagg  
[stewart.tagg@obhs.school.nz](mailto:stewart.tagg@obhs.school.nz)



## NCEA Level 2 / Course code: 12ENG1, 12ENG, 12ENC

### Entry information

Students will be guided into the appropriate programme based on their Year 11 achievement and advice from their Year 11 English teacher. Entry to any Year 12 programme is at the discretion of the HOD English.

### Outline of Course

Welcome to Level 2 English. You will find that the work you do is similar to what you have done in previous years although there is a greater emphasis on the understanding of language and literature.

### ACADEMIC ENGLISH

**12ENG1** and **12ENG** are academic courses which aim to instruct students in the following areas: Reading Skills and Response to Literature (Drama, Novel, Short Stories, Poetry, Non Fiction, and Film), Writing Skills, Research Skills, Speaking and Presentation Skills and Media Production Skills. During the year you will build on the skills of interpretation and analysis developed in Level One. Independent study skills along with organisational and co-operative skills are also emphasised. Students intending to carry on to university study must complete this course.

### COMMUNICATION ENGLISH

**12ENC** is an English course designed for those who find reading and writing a challenge at times. The overarching aim of this course is to improve a student's basic skills. 12ENC offers assessment in Level Two English as well as Core Skill Standards. All of the standards offered in this course are internally assessed. Students are placed into 12ENC on the recommendation of their year 11 English teachers and at the discretion of the HOD English.

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## NCEA Level 2 / Course code: 12ENG1, 12ENG2 ... continued ...

### Assessments resulting from the course learning

Students in both **12ENG1** and **12ENG** will sit TWO external examinations, as listed below. Students will also undertake TWO internal assessment tasks, *AS91101 – Produce a selection of crafted and controlled writing*, and ONE other (from those listed below) decided by their teacher.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Analyse specified aspect(s) of studied written text(s), supported by evidence	4	91098	External	Y	Y
Analyse significant aspects of unfamiliar written text(s) through close reading, supported by evidence	4	91100	External	Y	Y
Produce a selection of crafted and controlled writing	6	91101	Internal	N	Y
Construct and deliver a crafted and controlled oral text	3	91102	Internal	N	N
Create a crafted and controlled visual and verbal text	3	91103	Internal	N	N
Analyse significant connections across texts, supported by evidence	4	91104	Internal	N	N
Form developed personal response to independently read texts, supported by evidence	4	91106	Internal	Y	N
Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence	3	91107	Internal	N	N

## NCEA Level 2 / Course code: 12ENC ... continued ...

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For those students in **12ENC**, assessments offered by your teacher will be selected from:

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Construct and deliver a crafted and controlled oral text	3	91102	Internal	N	N
Create a crafted and controlled visual and verbal text	3	91103	Internal	N	N
Analyse significant connections across texts, supported by evidence	4	91104	Internal	N	N
Form developed personal response to independently read texts, supported by evidence	4	91106	Internal	Y	N
Analyse aspects of visual and/or oral text(s) through close viewing, supported by evidence	3	91107	Internal	N	N
Select, Assess, and Read Texts to Gain Knowledge	3	2989	Internal	N	N
Write Business Correspondence for a Workplace	6	3488	Internal	N	N
Write a Short Report	3	3492	Internal	N	N

### Course costs

Nil

### Where this qualification can lead

The skills taught in English are valued across a range of subjects and disciplines. Being that English teaches us to write accurately, to read carefully and to think critically, students who find success in this subject often find success widely.

Boys who find success in any of these courses can progress to English in year 13. Various assessments in Level Two English count towards students' University Literacy requirements.

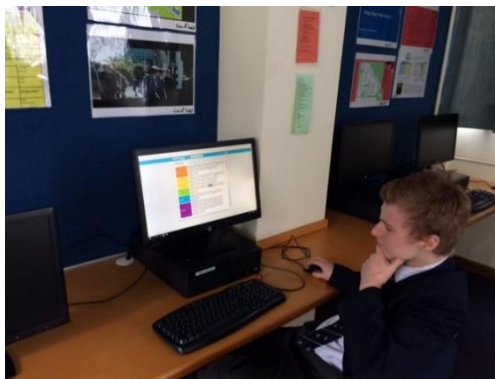
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# French in 2018

For further information please see Mr Black  
[jim.black@obhs.school.nz](mailto:jim.black@obhs.school.nz)



## NCEA Level 2 / Course code: 12FRE

### Entry information

You will need to have shown that you can cope with a higher level of this course with success in at least one each of your internal and external Level One standards.

### Outline of Course

You will move towards more independence in what and how you study, with emphasis on your communication skills. Giving thoughtful, reasoned answers is important, and your reading and writing especially will develop. Expect much more work in conversation, and an emphasis on grammar learning. On the other hand, the pressure on vocabulary eases a little this year.

The topics you study will still follow the same lines as Level One, but in greater detail, with the aim of developing your ability to interpret what people say, and to express information and opinions about the past and future. Some topics are more appropriate for people your age, such as what happens when they leave school, and the certainties and possibilities of life ahead.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Spoken presentation	4	91120	Internal	N	N
Writing a variety of texts	5	91122	Internal	N	N
Listening comprehension	5	91118	External	N	N
Reading comprehension	5	91121	External	N	N

### Course costs

You will probably not have to buy a new workbook this year, but there will be a \$20 subscription to Language Perfect.

### Where this qualification can lead

Any second language is an asset in an occupation involving speakers of another language. It will facilitate learning further languages. New Zealand universities offer and encourage a number of courses involving language study with other subjects. In some cases, credit for successful work at school is given when entering a course. Occupations which find second language competence useful include government departments (especially but not only the Ministry of Foreign Affairs and Trade), businesses involving trade, tourism, marketing, law and administration. There are educational opportunities in the francophone academic world, including Canada and Africa. Bear in mind that competent second language student numbers are in decline, and your skills may well be in demand. Advancing to Level Three French will help you get there.

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# Geography in 2018

For further information please see Iain Mitchell

[iain.mitchell@obhs.school.nz](mailto:iain.mitchell@obhs.school.nz)



## NCEA Level 2 / Course code: 12GEO

### Entry information

A minimum of 12 Level 1 credits in Geography or 12 Level 1 credits in English.

### Outline of Course

The Level 2 course covers two main areas: They are: Natural Landscapes: A study of the South Island High Country geographic environment. Inequalities of development: An introduction to the differences that have developed between different nations and parts of the world. The course builds on and develops geographic ideas, concepts and skills which will be beneficial for Level 3 studies.

### Assessments resulting from the course learning

Level 2 Geography has 3 internal assessment items worth a total of 11 credits. External assessment covers 3 achievement standards at the Level 2, worth a total of 12 credits.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Demonstrate geographic understanding of a large natural environment.	4	91240	External	Y	Y
Demonstrate geographic understanding of differences in development.	4	91242	External	Y	Y
Apply concepts and geographic skills to demonstrate understanding of a given environment.	4	91243	External	N	N
Conduct geographic research with guidance.	5	91244	Internal	N	N
Explain aspects of a contemporary geographic issue.	3	91245	Internal	N	N
Explain aspects of a geographic topic at a global scale.	3	91246	Internal	N	N

### Course costs

A field trip to Central Otago will cost approximately \$150.

### Where this qualification can lead

To the Level 3 Geography course. The course also provides students with skills that may be beneficial for many jobs that involve interpreting information, writing reports and research.

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# German in 2018

For further information please see Mr Black  
[jim.black@obhs.school.nz](mailto:jim.black@obhs.school.nz)



## NCEA Level 2 / Course code: 12GER

### Entry information

You will need to have shown that you can cope with a higher level of this course with success in at least one each of your internal and external Level One standards.

### Outline of Course

You will move towards more independence in what and how you study, with emphasis on your communication skills. Giving thoughtful, reasoned answers is important, and your reading and writing especially will develop. Expect much more work in conversation, and an emphasis on grammar learning. On the other hand, the pressure on vocabulary eases a little this year.

The topics you study will still follow the same lines as Level One, but in greater detail, with the aim of developing your ability to interpret what people say, and to express information and opinions about the past and future. Some topics are more appropriate for people your age, such as what happens when they leave school, and the certainties and possibilities of life ahead.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Listening Comprehension	5	91123	External	N	N
Spoken Presentation	4	91125	Internal	N	N
Reading comprehension	5	91126	External	N	N
Writing a variety of texts	5	91127	Internal	N	N

### Course costs

You will probably not have to buy a new workbook this year, but there will be a \$20 subscription to Language Perfect.

### Where this qualification can lead

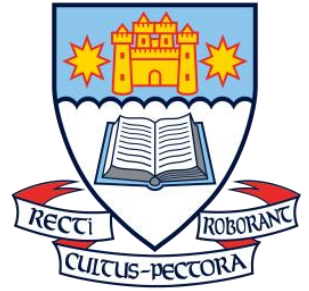
Any second language is an asset in an occupation involving speakers of another language. It will facilitate learning further languages. New Zealand universities offer and encourage a number of courses involving language study with other subjects. In some cases, credit for successful work at school is given when entering a course. Occupations which find second language competence useful include government departments (especially but not only the Ministry of Foreign Affairs and Trade), businesses involving trade, tourism, marketing, law and administration. Bear in mind that competent second language student numbers are in decline, and your skills may well be in demand. Advancing to Level 3 German will help you get there.

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# Design Graphics in 2018

For further information please see Mr Dougherty  
[richard.dougherty@obhs.school.nz](mailto:richard.dougherty@obhs.school.nz)



## NCEA Level 2 / Course code: 12DVC

### Entry information

For a student to be able to attempt Level 2 Design Graphics he must have at least 15 credits at Level 1 Design Graphics. Students with less than the required number of credits, or being new to subject, will only be considered for inclusion in the course by consultation with the Teacher in Charge of Design Graphics.

### Outline of Course

Design Graphics (NZQA 'DVC' Design and Visual Communication Achievement Standards based) is a creative visual course where students will be using a wide variety of media and presentation techniques on Architectural and Product design briefs. Students will cover a variety of topics including design, problem solving and graphic communication. Freehand drawing is emphasized as a means of helping to solve design problems. We utilize 3D modelling software, 3D Printing of prototypes and craft model scale miniatures. Research skills, initiative, ingenuity and resourcefulness are also attributes a student will develop through his work.

This course builds on the skills learned in Level 1 Design Graphics. Students will develop designs over two briefs, a Product Design and an Architectural (Dream House) spatial design. Many presentation techniques will be used to develop designs, such as freehand sketching, formal scaled drawings, 3D computer modelling, miniature modelling, using a large variety of media such as quality pens, inks, paints, 3D printer, plastics, Balsa wood etc.

Design Graphics is an NCEA course ('DVC' Design and Visual Communication Achievement Standards) which has three units which are internally assessed and three which are externally assessed. Together these are worth a total of 29 credits towards the National Certificate of Educational Achievement. Some of the standards on offer are for extension and may not be attempted by all students. 23 credits is the norm.

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## NCEA Level 2 / Course code: 12GRA ... continued ...

**ASSESSMENT:** Students will work through the design briefs, each leading to the acquisition of the knowledge required to gain credit for the particular internally assessed achievement standard. There is no exam in this subject – the work generated by the student throughout the year is used for both internal and external evidence. The external assessment requires the student to send complete units of work for independent assessment. Inherent in these units should be evidence that the student can understand and use all the necessary drawing and presentation skills and has met all the requirements of the Achievement Standards demonstrating creativity through functional and aesthetic design decisions.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Use visual communication techniques to generate design ideas	3	91337	External	N	N
Produce working drawings to communicate technical details of a design	4	91338	External	N	N
Produce instrumental perspective projection drawings to communicate design ideas.	3	91339	External	N	N
Use the characteristics of a design movement or era to inform own design ideas.	3	91340	Internal	N	N
Develop a spatial design through graphics practice	6	91341	Internal	Y	N
Develop a product design through graphics practice	6	91342	Internal	N	N
Use visual communication techniques to compose a design presentation of a design	4	91343	Internal	N	N

### Course costs

There is a small fee to cover the extensive equipment offered to the students. A wide variety of high quality pens, inks, paints & paper are used. There is also a department colour printer that is extensively used, a 3d printer, digital SLR camera, miniature modelling materials & equipment. The room is full of specialized equipment that allows for broad presentation techniques that caters to individual strengths and abilities.

### Where this qualification can lead

Within school - to NCEA Level 3 Design Graphics ...with the option of Scholarship for the aspirational. The Achievement standards offered count towards University entrance.

Vocations like Architecture, Product design & Graphic design (such as advertising, web site design) are directly linked pathways to Graphics-DVC (Design and Visual Communication), but being able to present an idea visually is useful in all aspects of life.

Graphics is about communicating ideas visually (referred to as 'Visual Literacy'), it provides a wide range of learning skills and opportunities, which transfer to a wide range of occupations, or further vocational or tertiary education. Visual communication is the broadest and most internationally used form of communication.

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# History in 2018

For further information please see Ms Curtis

[wendy.curtis@obhs.school.nz](mailto:wendy.curtis@obhs.school.nz)



## NCEA Level 2 / Course code: 12HIS

### Entry information

A minimum of 12 Level 1 credits in History, including one of either AS 91003 or 91005 or 91006. Students who wish to study History for the first time at Level 2 and who have successful grades in English, are very welcome. Please seek approval from Ms Curtis

### Outline of Course

This course is based on two of the following topics:

Search for Security in the Nuclear Age (The Cold War)

Origins of World War 1

Weimar Republic and the Nazi state

Revolution in Russia

American War of Independence and the making of the Republic

Holocaust

Students develop and refine the skills of analysis and interpretation introduced at Level 1 with a focus on primary sources wherever possible. The Research process is extended through internal Achievement Standards with an emphasis on Communication methods.

### Assessments resulting from the course learning

This is a full year course worth 28 credits. There are three internally assessed Achievement Standards worth 14 credits and three External Standards worth 14 credits.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Carry out a planned inquiry of an historical event, or place	4	91229	internal	Y	N
Examine an historical event, or place, of significance	5	91230	internal	Y	N
Examine sources of an historical event of significance	4	91231	external	Y	N
Interpret different perspectives of people in an historical event	5	91232	internal	Y	N
Examine causes and consequences of a significant historical event	5	91233	external	Y	Y
Examine how a significant historical event affected New Zealand society	5	91234	external	Y	Y

### Course costs

None

Where this qualification can lead Level 3 History

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# Mathematics at Otago Boys' High School in 2018

For further information regarding Mathematics and Statistics please see Miss Bedford

[hannah.bedford@obhs.school.nz](mailto:hannah.bedford@obhs.school.nz), Mr Roe,

[richard.roe@obhs.school.nz](mailto:richard.roe@obhs.school.nz), Mr Hooper

[mark.hooper@obhs.school.nz](mailto:mark.hooper@obhs.school.nz).



## NCEA Level 2 Course code: 12MATS (Statistics)

### Entry information

It would be expected that students entering this course would have gained a minimum of 14 NCEA Level 1 Mathematics and Statistics credits and/or teacher recommendations.

### Outline of Course

This course is a rigorous course that is strongly focused on statistical literacy, empowering students to be informed citizens in this increasingly data driven world. Students will develop the ability to make informed decisions based on data.

### Assessments resulting from the course learning

Depending on the strengths of the class the course will be made up of all, or a selection of most, of the below standards.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
<b>Inference</b> – Use statistical methods to make an inference.	4	91264	Internal	N	N
<b>Probability</b> – Apply probability methods in solving problems.	4	91267	External	N	N
<b>Simulation</b> – Investigate a situation involving elements of chance using a simulation	2	91268	Internal	N	N
<b>Experiments</b> – Conduct an experiment to investigate a situation using statistical methods	3	91265	Internal	N	N
<b>Questionnaires</b> – Design a questionnaire	3	91263	Internal	N	N
<b>Trigonometry</b> – Apply trigonometric relationships in solving problems.	3	91259	Internal	N	N
<b>Networks</b> – Use networks in solving problems	2	91260	Internal	N	N

### Course costs

\$20 for write-on booklets supplied by the Mathematics and Statistics Department.

A graphics calculator, costing approximately \$120.

### Where this qualification can lead

This course leads to the Level 3 Statistics or the Level 3 Mathematics courses.

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## NCEA Level 2

### Course code: 12MATC (Calculus)

#### Entry information

It is expected that students entering this course will have achieved at least one of 1.2 (Algebra) and 1.3 (Graphing) with Merit or Excellence and have achieved NCEA Level 1 Mathematics and Statistics with Merit or Excellence endorsement and/or teacher recommendations.

#### Outline of Course

This course has a high computational component, with a major emphasis on algebraic thinking and skills. It is intended that students gain an ability to manipulate algebraic expressions and set out logical mathematical communication.

#### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
<b>Algebra</b> – Apply algebraic methods in solving problems.	4	91261	External	N	N
<b>Calculus</b> – Apply calculus methods in solving problems.	5	91262	External	N	N
<b>Probability</b> – Apply probability methods in solving problems.	4	91267	External	N	N
<b>Graphical Methods</b> – Apply graphical methods in solving problems.	4	91257	Internal	N	N
<b>Systems of Equations</b> – Apply systems of equations in solving problems	2	91269	Internal	N	N
<b>Sequences &amp; Series</b> – Apply sequences and series in solving problems.	2	91258	Internal	N	N

#### Course costs

\$20 for write-on booklets supplied by the Mathematics and Statistics Department.  
A graphics calculator, costing approximately \$120.

#### Where this qualification can lead

This course would lead to Level 3 Calculus, Level 3 Statistics, or Level 3 Mathematics.

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## NCEA Level 2

### Course code: 12MAT

#### Entry information

Students must have a minimum of 10 Level 1 Mathematics and Statistics credits. Students may not repeat this course.

#### Outline of Course

This course will have an emphasis on building base understanding across the core areas of Mathematics. Learning will be focused on what is relevant and engaging. Students will develop their statistical thinking and the ability to make informed decisions based on data.

#### Assessments resulting from the course learning

Depending on the strengths of the class the course will be made up of a selection of the below standards. Students will likely be offered approximately 16 credits in this course.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
<b>Co-ordinate Geometry</b> – Apply coordinate geometry methods in solving problems.	2	91256	Internal	N	N
<b>Trigonometry</b> – Apply trigonometric relationships in solving problems.	3	91259	Internal	N	N
<b>Networks</b> – Use networks in solving problems	2	91260	Internal	N	N
<b>Sequences &amp; Series</b> – Apply sequences and series in solving problems.	2	91258	Internal	N	N
<b>Probability</b> – Apply probability methods in solving problems.	4	91267	External	N	N
<b>Statistics</b> – Conduct an experiment to investigate a situation using statistical methods.	3	91265	Internal	N	N
<b>Simulation</b> – Investigate a situation involving elements of chance using a simulation	2	91268	Internal	N	N
<b>Experiments</b> – Conduct an experiment to investigate a situation using statistical methods	3	91265	Internal	N	N
<b>Questionnaires</b> – Design a questionnaire	3	91263	Internal	N	N

#### Course costs

\$20 for write-on booklets supplied by the Mathematics and Statistics Department.

A scientific calculator, costing approximately \$20.

#### Where this qualification can lead

This course provides appropriate Level 2 Achievement Standards for entry into many apprenticeships and polytechnic courses.

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# Media Studies in 2018

For further information please see Mr Gabbusch.  
[tony.gabbusch@obhs.school.nz](mailto:tony.gabbusch@obhs.school.nz)



## NCEA Level 2 / Course code: 12MST

### Entry information

A minimum of 12 credits in NCEA Level 1 English, including AS 90054 (1.3) and A.S.90057 (1.6) Close Reading **OR** NCEA Level 1 Media Studies, including AS 90990 and AS 90991 (refer to the table for Level 1 Media Studies).

### Outline Of Course

This is a full year course worth up to 29 credits. We attempt 20 of the available credits. The course aims to develop student understanding of the media and how media can affect our society. The course examines the content and production of newspapers, television, radio, and film media. It develops critical skills of interpretation and analysis. There is also a practical component where students create their own media product. The production focus at this level is print media.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Demonstrate understanding of narrative in media texts.	4	91249	Internal	N	N
Demonstrate understanding of representation in the media.	3	91250	Internal	N	N
Demonstrate understanding of a media genre.	3	91251	External	Y	Y
Produce a design and plan for a developed media product, using a range of conventions.	4	91252	Internal	N	N
Complete a developed media product from a design and plan, using a range of conventions.	6	91253	Internal	N	N

### Course costs

You are required to purchase a large size scrapbook for draft work.

A laptop is the preferred BYOD IT device, as it allows you to edit audio, photographs, video, etc. effectively.

Each student will need to supply an 8 Gigabyte class 10 SDHC card for storing their own video files.

**Where this qualification can lead** Level 3 (and Scholarship) Media Studies, and eventually to tertiary studies in media production, journalism, or public relations and other creative industries. Media production, television, radio, film/television, gaming/app design, journalism, public relations and other creative industries.

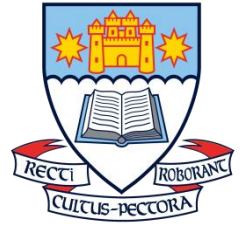
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# Technology Metal in 2018

For further information please see Mr Odgers, HOD and/or Mr Densem, TIC.  
[greg.densem@obhs.school.nz](mailto:greg.densem@obhs.school.nz)



## NCEA Level 2 / Course code: 12WTM

### Entry information

Level 1 Workshop Technology Metal with 14 credits gained minimum for automatic course acceptance. Students without the prior experience are welcome if they have good intentions and a desire to achieve quality results. These boys will need to consult with the 'Teacher in charge' and may be accepted on a trial basis to ensure commitment to achievement.

### Outline of Course

Workshop Technology Metal is a course comprising Achievement Standards and Competenz Unit Standards. These offer credits towards NCEA level 2. You are assessed on the research, development and construction of two projects. A sheet metal project and a major "Client Issue" item. The student has a large amount of freedom as to the nature of the projects, it needs to be negotiated with the teacher in charge, but the options are almost limitless. The course will encompass computer research & development, sketching, scale modelling, product design and development, construction techniques and application. The intent of this course is to provide the opportunity to express your creativeness and expand your practical skills through producing well-designed and finished products that you can take home with pride. Steel is a required component in your projects but other materials are encouraged. Wood, plastics, glass, fabric (upholstery), casting (aluminium), and any material can be considered appropriate. Many different practical skills will be taught throughout the year, such as sheet metal fabrication, mig welding, gas welding, brazing, various cutting and joining techniques, upholstery, finishing/ painting, lathing work.

### Assessments resulting from the course learning

Work for Unit Standard and Achievement is assessed by the teacher, with the results being moderated externally to ensure that those who achieve are of a national standard.

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Topic of learning	Credits	Achievement/ Unit standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Undertake effective development to make and trial a prototype.	6	91357	Internal	N	N
Demonstrate and apply knowledge of safe welding procedures under supervision.	3	21907	Internal	N	N
Select, use and maintain portable handheld engineering power tools.	4	2396	Internal	N	N
Select, use and care for, engineering hand tools.	4	2395	Internal	N	N
Manually produce and interpret engineering sketches under supervision.	4	2430	Internal	N	N

**Course costs**

A base fee of \$80 is included in the school fees to cover the cost of “standard” metal and other consumable items such as paints, abrasives, gases and welding supplies etc. Additional items such as hinges, handles, catches, timber, upholstery and any other special components must be sourced and supplied by the student.

**Where this qualification can lead**

Within school, the subject is available at Level 3 (Year 13).

The skills gathered can be applied to many potential occupations such as:- Fabrication, refrigeration and air conditioning, general engineering, tool making, gun smithing, fitting and machining, maintenance engineering, lock smithing.

It is also a good launching pad for tertiary study (especially design or Engineering).

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## Music in 2018

For further information please see Mr Hanson  
[konrad.hanson@obhs.school.nz](mailto:konrad.hanson@obhs.school.nz)



### NCEA Level 2 / Course code: 12MUS

#### Entry information

This course is ideally entered having completed Level 1 Music with at least 14 credits. Ability to perform on an instrument or as a vocalist is necessary, and it is recommended that students take instrumental tuition.

#### Outline of Course

The course continues to offer a variety of options depending on the students' strengths and interests. The opportunity for Performance on a second instrument is added at level two for those wishing to follow a more performance focused curriculum, as well

#### Assessments resulting from the course learning

There are four core assessments to focus learning on a variety of musical skills.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Perform two substantial pieces of music as a featured soloist	6	91270	Internal	N	N
Compose two substantial pieces of music	6	91271	Internal	N	N
Demonstrate and apply knowledge of electronic music production and music notation application(s)	4	27658	Internal	N	N
Demonstrate aural understanding through written representation	4	91275	External	N	N

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## NCEA Level 2 / Course code: 12MUS ... continued ...

Because music students have different strengths and interests, an extra performance and theory assessment are available for those to add to their course or use as a substitute.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Perform a substantial piece of music as a featured soloist on a second instrument	3	91274	Internal	N	N
Demonstrate ensemble skills by performing a substantial piece of music as a member of a group	4	91272	Internal	N	N
Investigate an aspect of New Zealand music.	4	91278	Internal	N	N
Devise an instrumentation for an ensemble.	4	91273	Internal	N	N
Demonstrate an understanding of the materials and processes of music in a range of scores	4	9126	External	N	N

### Course costs

Purchase/Hire of Instrument/Tuition Fees as applicable

### Where this qualification can lead

Leads to NCEA Level 3 Music and further music making as leisure or career pursuit. For further information, see Mr Hanson.

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# Physical Education in 2018 (offers three courses)

For further information please see Mr McGarry

[mike.mcgarry@obhs.school.nz](mailto:mike.mcgarry@obhs.school.nz)



## NCEA Level 2 / Course code: 12PED

### Entry information

A minimum of 16 credits in Level 1 Physical Education including AS 1.2

### Outline of Course

This is a full year course worth 23 credits. It is practically based with an emphasis on the social development of the student and the positive effect that exercise can have on their lifestyle and well-being. Students must be able to demonstrate knowledge of how their body functions and what effects exercise has on their quality of movement.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Explain how biophysical principles relate to the learning of physical skills.	5	91328	Internal	N	N
Apply biophysical principles to training for physical activity and explain the application.	4	91329	Internal	N	N
Perform a physical activity to achievement level of the Physical Education Performance Standards for Level 2, in an applied setting.	4	91330	Internal	N	N
Explain the significance for self, others and society of a sporting event, physical activity, or festival.	4	91331	Internal	N	N
Explain the application of risk management strategies to a challenging outdoor activity.	3	91333	Internal	N	N
Examine the implementation and outcome(s) of a physical activity event or opportunity	3	91335	internal	N	N

### Course costs

None

### Where this qualification can lead

Internally into Level 3 Physical Education. Externally into courses for the health and fitness industry.

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## NCEA Level 2 / Course code: 12APP

### Entry information

None

### Outline of Course

This 15 credit course is practically based with an emphasis on player performance by building an environment “off the field” which enhances players’ “on-field” performance. The course will use sport as a context to develop life skills for success.

Specifically the intention is for the students involved to further develop self-discipline, team work, individual responsibility, having exposure to competitive situations, making appropriate lifestyle choices, and to enhance their levels of personal fitness through personal training.

The course will also focus on the social development of the student and the positive effect that exercise can have on their lifestyle and well-being. The students will participate in a range of physical activities related to the fitness systems in their selected sport.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Explain the application of risk management strategies to a challenging outdoor activity.	3	91333	Internal	N	N
Apply biophysical principles to training for physical activity and explain the application.	4	91329	Internal	N	N
Explain the significance for self, others and society of a sporting event, physical activity, or festival. Pilates	4	91331	Internal	N	N
Perform a physical activity to achievement level of the Physical Education Performance Standards for Level 2, in an applied setting.	4	91330	Internal	N	N

### Course costs

None

### Where this qualification can lead

Internally into Level 3 Sports Studies. Externally into courses for the health and fitness industry.

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## NCEA Level 2 / Course code: 12ODR

### Entry information

None

### Outline of Course

It will be based in and around the local Dunedin area as well as some trips. There will be a focus on theory and practical work with and emphasis on Risk management, planning and evaluation of activities. This course will involve extra cost as it will require the use of specialized instruction, transport and time away. Activities could include, tramping, rock climbing, snow caving and diving, surfing, mountain biking, ice hockey. Assessment details are based upon student interest



### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Perform a physical activity to achievement level of the Physical Education Performance Standards for Level 2, in an applied setting.	4	91330	Internal	N	N
Explain the application of risk management strategies to a challenging outdoor activity.	3	91333	Internal	N	N
Explain the significance for self, others and society of a sporting event, physical activity, or festival. Winter festival	4	91331	Internal	N	N

### Course costs

There will be costs associated with this course. These are estimated at \$1000

### Where this qualification can lead

Internally into Level 3 Outdoor Education. Externally into courses for the health, fitness and outdoor adventure industry.

Students are encouraged to go onto the two year Outdoor leaders program through the Otago Poly Technic

### Activities Include

Surfing  
First Aid  
SLS  
Mt. Biking  
Ski Snow Cave  
Windsurfing

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# Physics in 2018

For further information please see Mrs Rabbidge  
[mary.rabbidge@obhs.school.nz](mailto:mary.rabbidge@obhs.school.nz)



## NCEA Level 2 / Course code: 12PHY

### Entry information

Students will need at least Achieved grades in Science 1.1 Mechanics and Physics 1.1 Linear Relationship from Year 11 Science. They will also need a solid grasp of graphing and algebra from Year 11 Mathematics.

### Outline of Course

Year 12 Physics is all about finding out how stuff works. This course involves practical investigations using a range of shiny new equipment, balanced with mathematical relationships to explain what we see happening in real life. Students who enjoy getting out of their seats to experiment with stuff they actually use at home like NERF guns, toy cars and water bombs would be well-suited to this course. They will learn how to measure and record data accurately, as well as explain the physics behind motion, electricity and nuclear radiation.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Practical investigation that leads to a non-linear relationship	4	91168	Internal	N	N
Forces, energy and motion	6	91171	External	N	N
Atomic and nuclear physics	3	91172	Internal	N	N
Electricity and electromagnetism	6	91173	External	N	N
Research project on electrical systems of a car	3	91169	Internal	N	N

### Course costs

Students are required to purchase the Scipad workbooks for this course. The cost is \$25 for the internal booklet and the external workbook together.

### Where this qualification can lead

This course is a prerequisite for Year 13 Physics and also provides a solid base for many tertiary physics and physics-related courses.

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# Te Reo Maori in 2018

For further information please see Mr Matehaere  
[brent.matehaere@obhs.school.nz](mailto:brent.matehaere@obhs.school.nz)



## NCEA Level 2 / Course code: 12MAO

### Entry information

A minimum of eighteen credits in NCEA Level One Te Reo Māori.

### Outline of Course

The course continues to develop the skills of Whakarongo, Tuhituhi, Panui and Korero. The course covers a variety of topics which change each year. Some of these topics include Maori events, personal hopes and aspirations for the future, myths and legends. The course aims to further develop what has been previously learnt.

### Assessments resulting from the course learning

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Whakarongo kia mōhio ki te reo o te ao torotoro	4	91284	Internal	N	N
Kōrero kia whakamahi i te reo o te ao torotoro	6	91285	Internal	N	N
Pānui kia mōhio ki te reo o te ao torotoro	6	91286	External	Y	N
Tuhi i te reo o te ao torotoro	6	91287	External	N	Y
Waihanga tuhinga auaha, i te reo o te ao torotoro	6	91288	Internal	N	Y

### Course costs

None

### Where this qualification can lead

Te Reo Māori 3 (Year 13). An ability to speak and understand the Māori language is a desirable skill in many employment areas, especially those that work with Māori or require employees who have a cross-cultural awareness. Possible careers include Maori language teacher, health professional, educator, journalist, broadcaster, professional in a government department, historian, lecturer, librarian, teacher, lawyer, police officer, tourism operator, curator, actor, advertising, anthropologist, archaeologist, and archivist.

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# Technology Wood in 2018

For further information please see Mr Odgers  
[peter.odgers@obhs.school.nz](mailto:peter.odgers@obhs.school.nz)



## NCEA Level 2 / Course code: 12WTW

### Entry information

Level 1 Workshop Technology Wood with 12 credits gained is essential for automatic course acceptance. Students without prior experience in this subject are welcome if they have good intentions and a desire to achieve quality results. These students must consult with the 'Teacher in Charge' and may be accepted on a trial basis to ensure commitment to achievement.

### Outline of Course

This course is similar to the Level 1 Wood Technology course, but at a more advanced level and more emphasis being placed on the use of machinery. Students are expected to show a higher level of creativity, more advanced skills and more independence of learning. Wood Technology is a workshop based course and students are encouraged to develop their own unique designs for their project. Students will work through a series of mainly Unit Standards and one Achievement Standard which are linked to their project and will give them the opportunity to gain credits towards NCEA Level 2. Additional Achievement Standards are available to any student wanting to gain University Entrance in Technology. All of these units of work will be appropriate to the skills expected of the year group and the level of learning expected of students. While the majority of the work will be of a practical nature, students need to understand that a certain amount of theory and design work has to be completed in a classroom setting.

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**Assessments resulting from the course learning**

Work for both the Achievement Standard and Unit Standards is assessed internally (by the teacher), with the results being moderated externally to ensure that those who achieve are of a national standard.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards UE reading	Counts towards UE writing
Implement advanced procedures using resistant materials to make a specified product with special features	6	A/S 91344	Internal	N	N
Brief Development	4	A/S 91354	Internal	N	N
Set and operate a single boring machine	4	U/S 2220	Internal	N	N
Set and operate a band saw	3	U/S 25536	Internal	N	N
Turn wood to produce furniture articles	4	U/S 20047	Internal	N	N

**Course costs**

A base fee of \$90 is included in the school fees to cover the costs of wood and other stock items such as adhesives, nails, screws, drills etc. Additional items such as hinges, handles, catches and other special components must be supplied by the student. Students will be supplied with Macrocarpa for their cabinets but are welcome to use other types of timber if they supply it and it is of a suitable standard.

**Where this qualification can lead**

Within school: Year 13 Wood Technology

Tertiary: This course will provide a sound foundation for a student who is planning a career that requires good hand-eye co-ordination (e.g. trades, design, engineering). Students will be able to progress to University or Polytechnic. This course provides students wishing to enter any trade with a sound practical foundation. Students will develop practical knowledge and skills which will benefit them in the future, not necessarily as a career.

**Information regarding vocational pathways**

This course will be beneficial to any student undertaking a Polytech course which has a practical or design component e.g. any trade or technology course. It will also be invaluable for students wanting to follow a university course that has a practical or design component.

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# Vocational Pathways in 2018

The Vocational Pathways provide new ways to structure and achieve NCEA Level 2, the foundation for successful transitions to further education and work. They enable students to see how their learning is relevant for a wide range of jobs and study options in six broad sectors of industry:

Manufacturing and Technology;

Construction and Infrastructure;

Primary Industries;

Social and Community Services

Services Industries;

Creative Industries.

The Vocational Pathways have been developed through a partnership between industry and employer representatives, the industry training sector, secondary and tertiary education providers and government agencies. They will play an increasingly important part of what shape NCEA qualifications look like at Otago Boys' High School.



To gain a **Vocational Pathways Award** students must achieve Level 2 by:

- Meeting the **NCEA Level 1 Literacy and Numeracy** Requirements
- Gaining **at least 20 credits** from the **Level 2 sector standards** for a particular vocational pathway
- **gaining another 40** credits from the **Level 2 standards recommended** for a particular vocational pathway

The following tables provide information for Level 2 students in 2018 as to how their NCEA Level 2 qualification can be structured with the Vocational Pathways in mind, as well as an indication of the types of careers it can lead to.

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## Vocational Pathways at OBHS Level 2

	Construction and Infrastructure	Primary Industries	Social & Community Services	Manufacturing and Technology	Service Industries	Creative Industries
Accounting					8 recommended credits	23 recommended credits
Agriculture		20 sector credits				16 sector credits
Art						16 sector credits
Biology		19 recommended credits	12 recommended credits			
Catering		5 recommended credits	4 sector credits 10 recommended credits		8 sector credits 14 recommended credits	
Chemistry	22 recommended credits	22 recommended credits	22 recommended credits	22 recommended credits	4 recommended credits	22 recommended credits
Digital Technology	12 recommended credits	12 recommended credits	3 recommended credits	19 sector credits 12 recommended credits	16 recommended credits	12 recommended credits
Earth and Space Science	24 recommended credits					
Economics		4 recommended credits	6 recommended credits		18 recommended credits	22 recommended credits
English	25 recommended credits	25 recommended credits	17 recommended credits		25 recommended credits	25 recommended credits
English Communication	7 recommended credits	13 recommended credits	10 recommended credits		7 recommended credits	6 sector credits 10 recommended credits
French					10 recommended credits	10 recommended credits

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<b>Geography</b>	4 recommended credits	11 recommended credits	3 recommended credits		23 recommended credits	12 recommended credits
<b>German</b>					10 recommended credits	10 recommended credits
<b>Design and Visual Communication</b>	26 sector credits	7 recommended credits		7 sector credits 19 recommended credits	7 recommended credits	29 sector credits
<b>History</b>					9 recommended credits	23 recommended credits
<b>Mathematics (1)</b>	16 recommended credits	21 recommended credits	8 recommended credits	16 recommended credits	12 recommended credits	24 recommended credits
<b>Mathematics (2)</b>	11 recommended credits	16 recommended credits	12 recommended credits	9 recommended credits	8 recommended credits	23 recommended credits
<b>Mathematics (3)</b>	9 recommended credits	13 recommended credits	13 recommended credits	7 recommended credits	7 recommended credits	18 recommended credits
<b>Media Studies</b>						21 sector credits
<b>Metal Product Design</b>	10 recommended credits	18 recommended credits		17 sector credits 4 recommended credits		10 sector credits
<b>Music</b>						35 sector credits
<b>Outdoor Education</b>					4 recommended credits	13 recommended credits
<b>Physical Education</b>			10 recommended credits		23 recommended credits	23 recommended credits
<b>Physics</b>	26 recommended credits	19 recommended credits	26 recommended credits	26 recommended credits		26 recommended credits
<b>Sports Studies</b>			4 recommended credits		12 recommended credits	12 recommended credits
<b>Te Reo Maori</b>		28 recommended credits	28 recommended credits		28 recommended credits	28 recommended credits
<b>Wood Technology</b>	18 sector credits 6 recommended credits	6 recommended credits		17 sector credits		12 sector credits 2 recommended credits

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## Possible Career Paths linked to Vocational Pathways

Construction and Infrastructure	Primary Industries	Social & Community Services	Manufacturing and Technology	Service Industries	Creative Industries
Air Traffic Controller	Agricultural Technician	Air Force Serviceman	Aeronautical Engineer	Accountant	Actor
Architect	Agricultural Scientist	Ambulance Officer	Aircraft Maintenance	Accounts Officer	Advertising Specialist
Boat Builder	Animal Attendant	Anaesthetist	Engineer	Actuary	Animator
Bricklayer	Aquaculture Farmer	Animal Attendant	Architect	Administration Officer	Architect
Building Contractor	Arborist	Audiologist	Automotive Electrician	Advertising Specialist	Architectural Technician
Building Inspector	Beekeeper	Biomedical Engineer	Automotive Mechanic	Air Force Serviceman	Archivist
Cabinet Maker	Biochemist	Biosecurity Officer	Baker	Army Serviceman	Art Director
Caretaker	Biosecurity Officer	Building Inspector	Biochemist	Auctioneer	Artist
Carpenter	Biotechnologist	Chiropractor	Biomedical Engineer	Bank Worker	Artistic Director
Civil Engineer	Crop / Dairy Farmer	Community Worker	Boat Builder	Barrister	Author
Concrete Worker	Dairy Products Maker	Corrections Officer	Brewer	Beauty Therapist	Beauty Therapist
Construction Manager	Dog Trainer	Conservator	Butcher	Bus Driver	Boat Designer
Crane Operator	Energy Auditor	Counsellor	Cabinet Maker	Café Worker	Body Artist
Draughtsperson	Environmental Engineer	Customs Officer	Chemical Engineer	Carpet Cleaner	Camera Operator Clothing
Diver	Environmental Scientist	Curator	Chemist	Cashier	Designer
Driller	Farm Worker	Dental Technician	Civil Engineer	Chef	Clothing Pattern Maker
Electrician	Fencer	Dentist	Clothing Designer	Chemist	Conservator
Environmental Engineer	Fishery Officer	Dietitian	Clothing Marker/Cutter	Courier	Copywriter
Floor and Wall Tiler	Fishing Skipper	Early Childhood Teacher	Computer Systems	Data Entry Operator	Curator
Floor Covering Installer	Food Technologist	Environmental Scientist	Technician	Dietician	Dancer
Fork-lift Operator	Forestry Worker	Firefighter	Dairy Products Maker	Driver	Director
General Labourer	Gardner	Foreign Policy Officer	Database/Systems	Dry-Cleaner	Dressmaker
Glazier	General Labourer	Forensic Scientist	Administrator	Economist	Editor
Interior Designer	Geologist	General Practitioner	Electrical Engineer	Events Manager	Events Manager
Joiner	Geophysicist	Health and Safety Inspector	Food and Beverage maker	Financial Advisor	Exhibition Technician
Landscape Architect	Groundsperson	Immigration Officer	Factory Worker	Fitness Instructor	Film and Video Editor
List Technician	Horse Trainer	Interpreter	Furniture Finisher	Flight Attendant	Florist
Locksmith	Horticultural Scientist	Laboratory Technician	Game Developer	Funeral Director	Game Developer
Metal Worker	Hunter/Trapper	Lecturer	Glass Processor	Graphic Designer	Graphic Designer
Miner	Landscape Architect	Librarian	Industrial Designer	Hairdresser	Hairdresser
Mining Engineer	Landscape Gardner	Medical Technician	Jeweller	Historian	Industrial Designer
Painter and Decorator	Marine Biologist	Midwife	Joiner	Insurance Agent	Interior Designer

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Plasterer Plumber and Gasfitter Project Manager Property Manager Quantity Surveyor Quarry Worker Roading Construction Worker Roofer Rubbish Collector Scaffolder Stonemason Survey Technician Surveyor Waste Treatment Operator Water Treatment Operator Welder	Meat Inspector Meat Process Worker Microbiologist Nursery Grower Packhouse Worker Production Manager Pulp and Paper Mill Operator Quarantine Inspector Saw Doctor Science Technician Seafood Process Worker Shearer Stock and Station Agent Veterinarian Veterinary Nurse Winemaker Wood Processing Worker	Minister Nanny Navy Serviceman Nurse Occupational Therapist Optometrist Osteopath Parking Warden Pathologist Pharmacist Physiologist Physiotherapist Podiatrist Police Officer Policy Analyst Probation Officer Psychiatrist Psychologist Quarantine Inspector Radiation Therapist Radiologist Security Officer Statistician Surgeon Teacher Translator Urban Planner Veterinarian Veterinary Nurse Youth Worker Zoo Keeper Zoologist	Marine Engineer Meat Inspector Mechanical Engineer Panelbeater Picture Framer Plastics Worker Printer Programmer Refrigeration/Air- conditioning Technician Science Technician Software Architect Supply Officer Telecommunications Technician Technical Writer Toolmaker Vehicle Body Builder Vehicle Painter Watchmaker Web Developer Winemaker	Jeweller Journalist Kitchenhand Lawyer Meteorologist Mortgage Broker Navy Serviceman Outdoor Guide/Instructor Panelbeater Payroll Officer Pharmacist Physicist Picture Framer Pilot Production Assistant Professional Sportsperson Project Manager Property Manager Real Estate Agent Receptionist Records Adviser Recreation Co-ordinator Recruitment Consultant Retail Manager Sales Representative Secretary Solicitor Sports Coach Statistician Stevedore Tour Guide Travel Agent Valuer Workplace Relations Adviser	Jeweller Journalist Landscape Artist Lighting Technician Make up artist Media Producer Musician Photographer Public Relations Consultant Radio Presenter Screen Printer Sewing Machinist Signwriter Sound Technician Stonemason Tailor Television Presenter Upholsterer Web Developer
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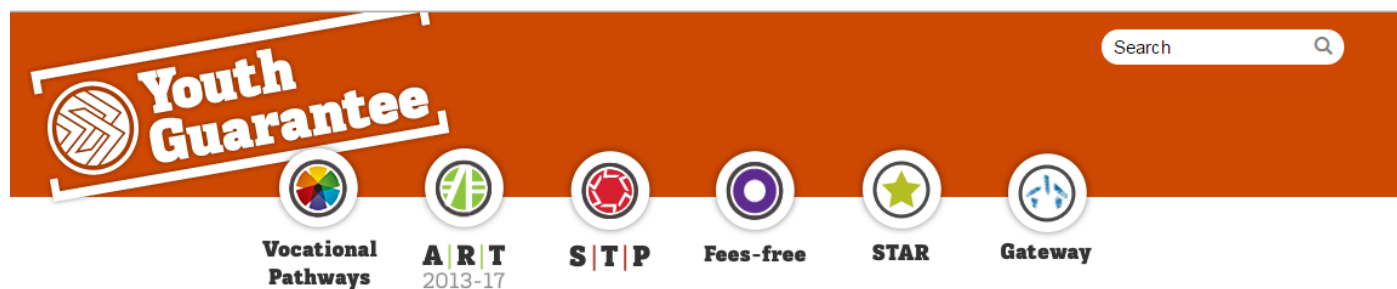
**Notes/questions I may have for teachers/deans**

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## Highly recommended websites

<http://www.youthguarantee.net.nz/start-your-journey/>



Youth Guarantee initiatives are about improving the transition from school to further study, work or training. They provide a wider range of learning opportunities, make better use of the education network, and clarify pathways from school.

**About**



**STUDENTS KEY INFO.**

**GET QUALS & SKILLS VALUED BY EMPLOYERS**

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<http://www.careers.govt.nz/>



## Plan your career

Choose, improve or change careers

## Job hunting

Get tips on finding work

## Jobs database

Explore 400+ jobs

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The banner features a sailboat on the water under a sunset sky. The text 'Just the Job 2017' is prominently displayed in large white letters. Below it, in smaller white text, is 'New Zealand's career seekers inspirational video website'. In the top right corner of the banner is the 'JUST THE JOB' logo with a checkmark.

**Just the Job 2017**

New Zealand's career seekers inspirational video website

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