

# Otago Boys' High School

Course selection for 2023

NCEA Level 3

# Contents

Greeting	Page 3
General Information	Page 4
How to Make Your Choices and Key Dates	Page 5
Accounting	Page 7
Agricultural and Horticultural Science	Page 8
Visual Art	Page 9
Applied Science	Page 10
Biology	Page 11
Business Studies and Entrepreneurship	Page 12
Chemistry	Page 13
Classical Studies	Page 14
Design and Visual Communication	Page 15
Digital Technologies	Page 16
Digital Media Studies	Page 17
Earth and Space Science	Page 19
Economics	Page 20
English	Page 21
Food and Nutrition	Page 23
French	Page 24
Gateway	Page 26
Geography	Page 27
German	Page 29
History	Page 30
Mathematics and Statistics	Page 31
Workshop Technology Metal	Page 34
Music	Page 35
Physical Education	Page 36
Sports Education	Page 37
Outdoor Education	Page 38
Physics	Page 39
Te Ao Haka - Reo Māori	Page 40
Workshop Technology Wood	Page 41
Highly Recommended Websites	Page 43

# Kia ora young men, parents and caregivers

**Welcome to your final 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 & advice

- Know any prerequisites (what must be studied beforehand);
- Plan ahead for 2023 and beyond (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 2023 - You may wish to ask advice from the following staff:

Guidance Counsellor

Mr Wither

Careers Advisors

Mr Swan and Ms Irving

## Students who wish to study a subject at university level should discuss this with:

Mr Campbell, Dean of Accelerated Learning

[alastair.campbell@obhs.school.nz](mailto:alastair.campbell@obhs.school.nz)

## 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. This school's policy is to have students taught here by teachers.

## Specific information for Year 13 students in 2023

The benefits of a Year 13 programme to both students and this school are obvious and rewarding, especially in the development of leadership, initiative, and academic knowledge. While there are attractive opportunities outside of school, the chance to mature, to grow in personal leadership and to finish your final year of schooling with friends should not be underestimated.

**All students are expected to study at least FIVE academic subjects. Students may choose a sixth academic subject. For those who choose only five subjects, the sixth option will be a combination of Senior Health, Leadership or Scholarship (13SHL).**

There are many pathways available to you with a good Level 3 qualification and U.E. All Level 3 subjects have prerequisites based on your achievement in NCEA Level 2. Students may be directed into a multi-level course combining Level 2 and Level 3 subjects.

Some combinations of subjects will not be possible due to timetable, rooming, and qualification constraints. For example, P.E. and Outdoor Education double up in their assessments of learning so this is not a possible combination.

We are expecting workshop numbers to be very tight in 2023. **Boys may choose either Workshop Technology Metal or Workshop Technology Wood, not both. Priority will be given to boys who have previous experience in these subject areas.**

## Gaining University Entrance

To be awarded University Entrance you will need:

- NCEA Level 3
- 14 Level 3 credits in each of three approved subjects (All Level 3 courses, with the exception of Sports Education, are UE approved)
- UE Literacy (5 credits in reading and 5 credits in writing at Level 2 or above)
- UE Numeracy (10 credits at Level 1 or above from approved standards)

## Recognising high achievement

You can gain 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 Level 3 with Excellence and be awarded an Academic Blue. If you get 50 or more credits at Merit (or a mix of Merit and Excellence), you will earn NCEA with Merit.

## Course endorsements 2023

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 & Gold Oak Leaf

Centurions recognise those students who have passed all internals and have at least 40 credits through the course of the year. It is acknowledged through the award of the Gold 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 15 September, you will notice a new link on your KAMAR Portal homepage ([portal.obhs.school.nz](http://portal.obhs.school.nz)) called “Course Selection”.

Subject choices **must be submitted by Wednesday, 28 September**

When you click on Course Selection you will see a screen that looks like this:

### SubjectsL3 Full Year Courses

Course	1	2	3	4	5	6
<b>Accounting</b>						
Level 3 Accounting (13ACC)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Art</b>						
Level 3 Art (13ART)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Agriculture</b>						
Level 3 Agricultural Science (13AGR)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Biology</b>						
Level 3 Biology (13BIO)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Level 3 Human Biology (13BIOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

You must make at SIX selections in total one of which may be 13SHL, Senior Health and Leadership.

When making course selections you will notice the grey boxes turn to green ticks as below. You must make one selection per column. You can see how your selections are progressing at the bottom left of the screen.

# DEADLINE FOR MAKING SUBJECT SELECTION IS WEDNESDAY, 28 SEPTEMBER

When you are sure you have made SIX course selections then click on “Preview Selection”, as shown below and when you are satisfied with your choices please click on “Confirm selection”.

Course	1	2	3	4	5	6
<b>German</b>						
Level 3 German (13GER)					x	x
<b>Gateway</b>						
Level 2/3 Gateway (13GTW)					x	x
<b>History</b>						
Level 3 History (13HIS)	x	x	x	x	x	x
<b>Media Studies</b>						
Level 3 Media Studies (13MST)	x	x	x	x	x	✓
<b>Music</b>						
Level 3 Music (13MUS)	x	x	x	x	x	x

**Subject Confirmation** x

Please confirm your course selection:

- 1: Level 3 Accounting - 13ACC
- 2: Level 3 Calculus - 13CAL
- 3: Level 3 Statistics - 13STA
- 4: Level 3 Classical Studies - 13CLS
- 5: Level 3 English - 13ENG
- 6: Level 3 Media Studies - 13MST

Confirm Selection
Close

1: Level 3 Accounting - 13ACC. 2: Level 3 Calculus - 13CAL. 3: Level 3 Statistics - 13STA. 4: Level 3 Classical Studies - 13CLS. 5: Level 3 English - 13ENG. 6: Level 3 Media Studies - 13MST

Preview Selection
Save

If you change your mind before the deadline please submit another round of choices and please inform Ms Gorman by email ([anne.gorman@obhs.school.nz](mailto:anne.gorman@obhs.school.nz)). We are always here to help and advise. Please do not be afraid to email over the next few days or leave a message on the phone.

## Accounting

For further information please see or contact Mr Brian Ashwin – [brian.ashwin@obhs.school.nz](mailto:brian.ashwin@obhs.school.nz)

### NCEA Level 3 / Course code: 13ACC

**Entry information:** A minimum of 12 credits in Level 2 Accounting (including the 5 credits from 91176) or 18 credits in Level 1 Accounting if you did not study Level 2 Accounting. Some of these credits should be at the merit or excellence level. Level 3 Accounting assumes competent prior study. Students wishing to study Accounting for the first time should seek advice from Mr Ashwin.

**Topics and contexts studied in this course:** The context of Accounting shifts to partnerships and companies. Reporting, analysing and interpreting performance, financial position and cash flows are a major part of the course. Cost and management accounting are introduced, as are budgeting techniques.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** The course provides students with advanced knowledge of the financial reporting function of Accounting. Ethics and accountability, management information, communication and decision-making skills are developed in Level 3 Accounting.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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 reporting entity.	4	91404	External	Y	N
Demonstrate understanding of accounting for partnerships	4	91405	Internal	N	N
Demonstrate understanding of company financial statement preparation.	5	91406	External	N	N
Prepare a report for an external user that interprets the annual report of a New Zealand reporting entity.	5	91407	Internal	Y	Y
Demonstrate understanding of management accounting to make a decision.	4	91408	External	N	N
Demonstrate understanding of a job cost subsystem for an entity.	4	91409	Internal	N	N

**Course costs:** \$30 for workbooks

**Further study from this course:** Tertiary qualifications in Accountancy, Commerce, Business Studies, Computing and Law. New Zealand accountancy qualifications and skills are highly marketable in New Zealand and internationally.

**Potential careers that value learning and skills from this course:** Accounting opens a wide range of career options. You could join a chartered accountancy firm, a government department, a charitable or sporting organisation, private industry or set up your own business.

## Agricultural and Horticultural Science

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

### NCEA Level 3 / Course code: 13AGR

**Entry information:** There are no prerequisites for this course.

**Topics and contexts studied in this course:** The course is a full NCEA course which mixes practical and theoretical skills. The course is assessed by a mixture of internal and external exams. It is suitable for any student with an interest in a career in applied science, primary industries or a desire to cultivate their own food and become more self-sufficient.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** You will learn practical animal husbandry skills, investigative work, research and growing your own food.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – <b>External (November) or Internal (through the school year)</b>	Counts towards U.E reading	Counts towards U.E writing
Investigation	4	91528	Internal	N	N
Making Money from a Primary Product	6	91529	Internal	Y	N
Future Proofing Farms	4	91869	Internal	Y	N
Environmental Issues	5	91532	External	Y	Y
Profitability of Primary Exports	4	91531	External	Y	Y

**Course costs:** Exercise book

**Further study from this course:** The course is designed to lead to a career in Agriculture and Horticulture and is suited to students who wish to study at Lincoln or study Botany at the university or polytechnic.

**Potential careers that value learning and skills from this course:** Any career involving animals or plants.



## Visual Art

For further information please see or contact Ms Anna Ward – [anna.ward@obhs.school.nz](mailto:anna.ward@obhs.school.nz)

### NCEA Level 3 / Course code: 13ART

**Entry information:** A minimum of Level 2 in Visual Art is essential for success in painting at Level 3.

**Topics and contexts studied in this course:** In Level 3 Painting there is an expectation that students understand methods used to develop artwork and ideas. Level 3 Students develop their own topic and work within an individualised pathway framework, with the use of artist models. Internal assessments are used as the stepping-stones that lead to success in the final three-panel Art portfolio.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Critical thinking, initiative, flexibility, creativity, visual literacy, and communication are just some of the skills developed in the creative field of Visual Art.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement Standard number	Mode of assessment	Counts towards U.E reading	Counts towards U.E writing
Use drawing to demonstrate understanding of conventions	4	91446	Internal	N	N
Systematically clarify ideas using drawing informed by established painting practice	4	91451	Internal	N	N
Produce a systematic body of work	14	91456	External	N	N
Produce a resolved work appropriate to a visual arts cultural context	4	91460	Internal	N	N

**Course costs:** The fee is \$90, and it includes but is not limited to the following items: A2 clear file, sketchbook, set of A2 paints, 6 brushes, 4 pencils, erasers, a mixture of weighted papers, tape, folio boards, and Adobe Photoshop.

**Further study from this course:** Achieving in Visual Arts at Level 3 can lead you into a wide range of tertiary qualifications and help you succeed in applications for scholarships. Art can help you specialise in degrees such as Media Arts, Industrial Design, Fine Arts, Architecture, Film, Game Design and Fashion.

**Potential careers that value learning and skills from this course:** When thinking about future careers, it is important to understand that the skills learnt in Visual Art are a unique blend, and therefore transferrable to a wide range of jobs outside the field of Visual Art. Today, modern creative industries are competitive environments in which many pathways for employment can be found. These include television, arts heritage, illustration, marketing, advertising, product design, packaging, fashion, photography, tattoo artist, animator, gaming and web development.

## Applied Science

For further information, please see or contact Mr Kent Twaites – [kent.twaites@obhs.school.nz](mailto:kent.twaites@obhs.school.nz)

**Students cannot study both Applied Science and Biology.**

### NCEA Level 3 / Course code: 13APS

**Topics and contexts studied in this course:** Homeostasis, Drugs in Sport, Anatomy, Physiology, and Human Evolution.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** This course encourages thinking, completing tasks and working collaboratively, great life skills for the workplace and for the thinking man.

This course allows for 15 internally assessed credits and thus for University Entrance. An additional 4 credits are available for extension. These are externally assessed.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards U.E reading	Counts towards U.E writing
Education for Sustainability: Making a better future	5	90832	Internal	Y	N
Homeostasis of the human body	3	91604	Internal	Y	N
Drugs in Sport	3	91602	Internal	Y	Y
Stream Life Investigation	4	91601	Internal	N	Y
Human evolution	4	91606	External	Y	Y

**Course costs:** SciPad Workbook \$32.

**Further study from this course:** This course will be useful for any students wanting to study Health Sciences, Nutrition, Applied Science, Forensic Science, Biotechnology or Physical Education papers at university.

**Potential careers that value learning and skills from this course:** This course will be a useful foundation for careers in areas such as medicine, veterinary science, ecology, primary industries, fisheries, conservation, and biosecurity.

## Biology

For further information please see or contact Mr Kent Twaites – [kent.twaites@obhs.school.nz](mailto:kent.twaites@obhs.school.nz)

**Students cannot study both Biology and Applied Science.**

### NCEA Level 3 / Course code: 13BIO

**Entry information:** Success in level two Biology leads well to level three Biology studies. Students who are achieving in English and/or Mathematics will also do well in Biology. A minimum of 12 credits in Level 2 Biology (preferably with 8 at Merit or higher), at least 4 of which come from the externally assessed standards AS91156, AS91157. In addition, it is expected you will have a minimum of 12 credits in Level 2 English as pre-requisites for this course.

**Topics and contexts studied in this course:** Students will study biotechnology, homeostasis of blood gases in humans, human evolution, plant and animal responses and will complete a freshwater invertebrate investigation.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** This science relies on the abilities of students to read and write well, to work together in teams. It also encourages them 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.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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
Homeostasis of Blood Gases	3	91604	Internal	Y	N
Biotechnology: Crispr	3	91602	Internal	Y	Y
Stream Life investigation	4	91601	Internal	N	Y
Animal and Plant Responses	5	91603	External	Y	Y
Human evolution	4	91606	External	Y	Y

**Course costs:** SciPad Workbook \$32

**Further Studies from this course:** Completion of this course is a suggested pathway for many tertiary courses such as health sciences, zoology, biochemistry, genetics, anthropology, agriculture, veterinary science, ecology, botany, marine science and nutrition.

**Potential careers that value learning and skills from this course:** This course will be a useful foundation for careers in areas such as medicine, veterinary science, ecology, primary industry, fisheries, conservation, and biosecurity.

## Business Studies and Entrepreneurship

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

### NCEA Level 3 / Course code: 13BUS

**Entry information:** There are **NO** specified prerequisites for entry into this course.

However, Mr Pratley will assess each applicant on their ability to cope with the Level 3 Business Studies and Entrepreneurship workload, based on their other Level 3 NCEA subjects and their ability to participate fully in the 2023 Lion Foundation Young Enterprise Scheme (YES), which is a practical course.

**Topics and contexts studied in this course:** During the year you will have the opportunity to gain 15 Level 3 credits in this course. The Lion Foundation Young Enterprise Scheme will provide the vehicle for the 15 credits that will be available via internal assessment

You will be involved in The Lion Foundation Young Enterprise Scheme 2023, which is a practical 'hands-on' business programme where students set up their own company, create real products/services, implement marketing plans, earn money, and keep their profits. This is not just an academic course but a relevant, exciting, real-life entrepreneurial business journey.

In the YES there is a \$25,000 national prize pool as well as regional awards and mini competitions with cash prizes and tertiary scholarships. YES students have opportunities to attend national business competitions and events such as the Otago regional "Pitch Day". In 2021 we had Otago Boys' students WIN placements on business trips to Wellington. Since 2016 YES at OBHS has gone from strength to strength, producing businesses that have been recognised on the national stage. *Kuranga Cards* (2018) and *OAK Cologne* (2019) were both Otago regionals champions, while *EduCard NZ* (2019) won National Excellence Awards in Accounting and Finance and in Sales and Marketing. In 2022 OBHS businesses such as *Hydretta*, *Grip Plus+* and *Accelerate* are well placed again to not only make the Otago Regional Finals but to push for higher national honours. Throughout the academic year boys are also able to establish and maintain business networks through Business South and various Dunedin Start-Up incubator programmes.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Business Studies is a course that looks to encourage the following 21<sup>st</sup> Century Life Skills: Learning skills, the 4 Cs (critical thinking, creativity, collaboration & communication), skills in information literacy, media literacy and technology literacy, as well as life skills, FLIPS (flexibility, leadership, initiative, productivity and social skills).

In addition to the 21st Century skills listed above this course will give you an appreciation of skills such as communication and presentation skills, goal setting, analytical skills, leadership skills, numeracy, problem solving teamwork and time management skills.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – <b>External (November) or Internal (through the school year)</b>	Counts towards UE Reading	Counts towards UE Writing
Develop a marketing plan for a new or existing product.	6	91382	Internal	Y	N
Carry out, with consultation, an innovative and sustainable business activity.	9	91384	Internal	Y	N

**Course costs:** Nil

**Further study from this course:** This course links directly to the *new Bachelor of Entrepreneurship* at Otago University as well as to Bachelor of Commerce or Arts at universities throughout the country. Polytechnic courses such as National Diploma in Business Studies or Management are also future pathways. Degrees such as Bachelor of Commerce or Arts at universities throughout the country as well as polytechnic courses such as National Diploma in Business Studies or Management.

Currently, the Otago Business School programmes include a variety of subjects that prepare you for a career in business and entrepreneurship. Courses currently on offer include: Accounting, Business Administration (MBA), Economics, Entrepreneurship, Executive Education, Finance, Health Informatics, Hospitality, Human Resource Management, Information Science, International Business, Management, Marketing, Philosophy, Politics and Economics (PPE), Responsible Leadership & Tourism.

**Potential careers that value learning and skills form this course:** Careers such as: accountancy, advertising, banking, investment and financial services, general management, human resources (HR), recruitment and personnel, management consultancy, planning, public relations, retail management, sales, marketing, valuer, lawyer, economist, sociologist, teacher, insurance, stockbroker, business advisor, business operations, social media analytics.

## Chemistry

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

### NCEA Level 3 / Course code: 13CHE

**Entry information:** You must have covered the material in the Level 2 Chemistry course.

**Topics and contexts studied in this course:** In this course you will build upon the knowledge from Level 2 by looking deeper into the interactions between molecules and the reactions that they do.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** How to analyse the structure in a substance to find out how it influences the function.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

opic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards U.E. reading	Counts towards U.E. writing
Thermochemistry	5	91390	External	N	N
Quantitative Chemistry	4	91387	Internal	N	Y
Research	3	91389	Internal	Y	Y
Redox	3	91393	Internal	N	N
Organic Chemistry	5	91391	External	N	N

Spectroscopy	3	91388	Internal	N	N
Aqueous Chemistry	5	91392	External (Optional)	N	N

**Course costs:** \$25 for both the external and internal Scipad book.

**Further study from this course:** Chemistry leads on to the study of many different branches of science at University or Polytechnics.

**Potential careers that value learning and skills form this course:** Chemistry is particularly useful for courses of study like engineering and health science.

## Classical Studies

For further information please contact or see Ms Anne Gorman - [anne.gorman@obhs.school.nz](mailto:anne.gorman@obhs.school.nz)

### NCEA Level 3 / Course code: 13CLS

**Entry information:** All students are welcome to join this course. However, it is preferable that students have a minimum of 12 credits from NCEA Level 2 English or from another Humanities subject.

**Topics and contexts studied in this course:** The course studies aspects of the life and culture of Classical Greece and Rome. We examine the ideas, beliefs and values of both the Greeks and the Romans as conveyed through their literature, studying Homer's *Iliad* and Virgil's *Aeneid* respectively. The same epic poems, together with modern film, are used as the context for a study of the portrayal of "the hero" in popular culture across time. We also look at the design, function, style and techniques of Roman Art and Architecture, examining how art works impacted on people's lives. Roman Art is also used as the context of our investigation into how Roman emperors pushed their political messages and ideologies. Additionally, we examine the philosophical ideas of the Greek thinker, Socrates.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Analysis, critical thinking, cultural awareness, decision-making and evaluation, effective communication, effective organisation, initiative and self-direction, research and inquiry, reasoning and problem solving, teamwork, working independently.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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
Greek and Roman Epic	4	91394	External	Y	Y
Roman Art and Architecture	4	91395	External	Y	Y
Power in Action	6	91396	External	Y	Y

Political Ideology of the Roman Empire or Socrates' Beliefs.	6	91397	Internal	Y	N
The Heroic Tradition through time.	6	91398	Internal	Y	N

**Course costs:** Nil

**Further study from this course:** This course can lead to further study of Classics at university level. It is a good foundation subject for the study of Philosophy, Law, English Literature, Art History, Media Studies, Medicine, and Politics and International Relations.

**Potential careers that value learning and skills from this course:** Advertising, archaeology, arts administration, art gallery and museum work, diplomatic service, editorial work, historic preservation, journalism and the media, library work, law, political analysis, publishing, teaching, theatre, travel and tourism.

## Design and Visual Communication

For further information, please see or contact Mr Allayne Guest - [allayne.guest@obhs.school.nz](mailto:allayne.guest@obhs.school.nz)

### NCEA Level 3 / Course code: 13DVC

**Entry information:** 14 Level 2 DVC credits achieved from both Internal and External achievement standards. Any other student with a desire to attempt DVC needs to negotiate with Mr Guest. There is an expectation of extra efforts to upskill in techniques/systems already covered in Levels 1 and 2. **Students must have a laptop which is capable of running AutoCad software.**

**Topics and contexts studied in this course:** This course builds on the skills learned in Level 2. Students will be expected to choose either a Spatial (Architectural) or Product (Functional Object) theme. This will be thoroughly researched and developed into a complex and well considered conceptual design using formal and creative presentation techniques. Independent learning and creativity are paramount to success. A large variety of media and presentation techniques will be used, tailored to the strengths of the student and the requirements of the design problems.

Level 3 DVC has two units which are internally assessed and three which are externally assessed. Students choose either Standard 91629 or Standard 91630. The assessed standards are worth a total of 22 credits towards the National Certificate of Educational Achievement. Six of these credits are an option for extension.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** As visual communication is how most communication occurs (estimated at 80%) there is no more important or relevant skills to hone, especially in this digital age. Any future where ideas need to be developed and/or communicated will benefit from Design and Visual Communication (DVC).



Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment	Counts towards U.E. reading	Counts towards U.E. writing
Produce working drawings to communicate production details for a complex design	6	91631	External	N	N
Initiate design ideas through exploration	4	91627	External	N	N
Resolve a spatial design through graphics practice	6	91629	Internal	N	N
Resolve a product design through graphics practice	6	91630	Internal	N	N
Develop a visual presentation that exhibits a design outcome to an audience.	6	91628	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 and paper are used. There is also a department colour printer that is extensively used, a 3D printer, digital SLR camera, and miniature modelling materials and equipment. The room is full of specialised equipment which allows for broad presentation techniques that cater to individual strengths and abilities.

**Further study from this course:** The Achievement Standards offered count towards University Entrance. Scholarship is available for the elite. University Degrees and Diploma courses are offered by various tertiary institutions. Areas for study include Architectural Design, Surveying, Engineering, Interior Design, Commercial/Print Illustration, Product Design, Graphic Design, Web Design, Game Design, Fashion Design, Art.

**Potential careers that value learning and skills form this course:** Architect, surveyor, engineer, interior designer, product designer, graphic designer, web designer, game designer, illustrator, fashion designer or artist.

## Digital Technologies

For further information, please see or contact Mrs Nicole Bennett - [nicole.bennett@obhs.school.nz](mailto:nicole.bennett@obhs.school.nz)

### NCEA Level 3 / 13DGT

**Entry information:** You must have taken Level 2 Digital Technologies and passed both Programming 2.7 and Web Design 2.4. This course requires 2 years of prior coding in the following languages (HTML/ CSS and Python). Multiple advanced programs will be developed, so prior knowledge is expected. You can gain University Entrance in this subject if you pass the 3 internal assessments offered.

**Topics and contexts studied in this course:** Responsive Web Design and Development, Human Computer Interaction (usability heuristics), User Experiences (UX) and Complex Programming (JavaScript) with a back-end database (Firebase).



**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** You will learn to code responsive websites from the ground up, from design to final implementation, using original graphics you have designed. You will continue to develop your advanced programming skills by learning another coding language, JavaScript, and learn how to send data collected from a web GUI to a real time database.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards U.E reading	Counts towards U.E writing
Use complex techniques to develop a digital media outcome – web design	4	91903	Internal	N	N
Use complex programming techniques to develop a computer program – Java Script	6	91896	Internal	N	N
Use complex processes to develop a digital technologies outcome	6	91897	Internal	N	N
Present a reflective analysis of developing a digital outcome	3	91899	External	N	N

**BYOD device: Recommended Device.** It is highly advantageous that you have a laptop of the recommended specification as listed on the school website. Loan laptops and devices will be available if this is a problem.

**Course costs:** \$15 this covers access to the full Adobe Cloud and Code Avengers Platform

**Further study from this course:** Computer Science (major/minor) at university or Bachelor of Information Technology at Otago Polytechnic

**Potential careers that value learning and skills form this course:** Web designer / developer, digital media and marketing, computer programmer, software engineer, it consultant, database administrator, data analyst, games developer, application developer.

## Digital Media Studies

For further information please see or contact Mr Peter Eaton - [peter.eaton@obhs.school.nz](mailto:peter.eaton@obhs.school.nz)

### NCEA Level 3 / Course code: 13DMS

**Entry information:** All students are welcome to try this subject. This is a practical course that will enable you to demonstrate what you have learned by creating media. Being familiar with movie making hardware and editing software are useful skills, but we will learn these as part of the course.

**Topics and contexts studied in this course:** The course is designed around us creating the media of today: live streams, vlogs, social media posts, video and web sites. To do this, we look at how media products are created, how they can be used to influence people in a society and the history of media production. During the course students will get hands-on experience using still and video camera to create videos and learn how to live-stream gaming, sports and other events such as our school production. At Level 3, students will get a chance to specialise in an area of interest. This course is modern, engaging and prepares students for being creative in a digital world.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Critical thinking, interpretation and analysis skills, structuring and managing time and resources (logistics), and digital image manipulation.

Assessment for the core course is made up of the standards below. Additional standards and customisation will be undertaken at the start of and during the course to suit each student. This course can be taken as a University Entrance subject, with a modified programme created for each student.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards U.E reading	Counts towards U.E writing
Produce a design for a media product that meets the requirements of a brief	4	91494	Internal	N	N
Produce a media product to meet the requirements of a brief	6	91495	Internal	N	N
Demonstrate understanding of the meaning of a media text through different readings	3	91491	Internal	N	N
Demonstrate understanding of a relationship between a media genre and society	4	91493	External	Y	Y

**Course costs:** \$10 for Adobe Suite Licenses

NB It is highly advantageous that you have a laptop of the recommended specification as listed on the school website. Loan laptops and devices will be available if this is a problem.

**Further study from this course:** Tertiary Level Media Studies at university or polytechnic.

**Potential careers that value learning and skills from this course:** Media production, television, radio, film/television, gaming/app design, journalism, publicity, social media influencer and other creative industries.

## Earth and Space Science

For further information please see Mr Justin Zani - [justin.zani@obhs.school.nz](mailto:justin.zani@obhs.school.nz)

### NCEA Level 3 / Course code: 13ESS

**Entry information:** Anyone can take this course as long as you would like to find out how our environment works and our place in it.

**Topics and contexts studied in this course:** This course focuses on finding out about how the Earth's systems work together. A mix of contexts look at investigating any interesting aspect of space, the geology of Dunedin's volcano, as well as controversial science issues such as ocean acidification or the search for extra-terrestrial intelligence. Students will also find out how our oceans and atmosphere work and how they impact upon us every day. We also investigate how some of the greatest challenges facing humanity have solutions that can be found in science.

**Useful 21st Century skills and competencies you will learn in this course:** It is an interesting blend of topics which are engaging for all students regardless of their ability and prior knowledge. The course encourages students to think critically and to develop a global perspective on a wide range of issues, including space exploration, the environment and Earth systems, an understanding of which enables us to live more sustainably without compromising our standard of living.

This is a UE approved subject with a large number of literacy credits available.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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
Ocean Acidification Investigation	4	91410	internal	Y	Y
Contentious Issues in Science	4	91411	internal	Y	Y
Aging the Dunedin Volcano	4	91412	internal	N	N
Astrobiology	4	91415	internal	Y	N
Atmosphere systems	4	91414	external	Y	Y
Ocean systems	4	91413	external	Y	Y

#### Course costs:

1B5 notebook.

3 day NZ Marine Studies Centre trip (approx. \$120).

Otago University Geology Department trip.

**Further Study from this course:** We are facing some of our greatest challenges to date. Climate change, ocean acidification, loss of biodiversity and habitat, single use plastics, Near Earth asteroids and answering the question “are we alone”. Not only do we need well trained scientists who can answer these challenges, but every citizen needs a basic understanding of our environment in order to make informed choices.

There are many New Zealand and international tertiary providers running a varied range of courses leading into Earth and Space Science fields, for example, Otago University's BSc with a major or minor in Ecology, Geography, Geology, Land Planning and Development, Marine Science, Oceanography, Physics or Surveying Management. Canterbury University also runs a course in Astronomy.

**Potential careers that value learning and skills from this course:** Civil engineering, marine science, meteorology, conservation, geology, astronomy, physics, aviation, disaster response, surveying and planning are just a few of the fields Earth and Space Science may lead to. There is a shortage of well-trained Earth scientists, and job prospects are very good.

Not only do we need well trained scientists in this area, but we also need lawyers, businesspeople, planners, and entrepreneurs who understand our environment and our impacts upon it. This is a huge and in demand growth area, developing understanding that can be applied in many areas.

## Economics

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

### NCEA Level 3 / Course code: 13ECO

**Entry information:** There are **NO** prerequisites for entry into this course. However, a sound grasp of Level 2 Economics is recommended. Mr Gwyn Pratley will assess your readiness to cope with the Level 3 workload based on your Level 2 NCEA results.

**Topics and contexts studied in this course:** The course includes the study of the theory of efficient (perfectly competitive) markets and real-world market failure. It enables students to achieve an understanding of economic theory that will allow them to develop a continuing interest in present day economic problems. The course also includes an overview of government policies to meet macro-economic goals. There is also the potential for those students that are interested to take Scholarship Economics.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Economics is a course where we look to encourage the following 21<sup>st</sup> Century Life Skills: Critical thinking, creativity, collaboration, communication, information literacy, media literacy, technology literacy, flexibility, leadership, initiative, productivity, and social skills.

This is a full year course that provides the opportunity to gain 24 credits. There are two internally assessed achievement standards worth a total of 10 credits. The remaining credits are externally assessed. Not all students will enrol in all standards. Enrolment in standards will be based on individual students' learning goals and future study intentions. There is also an opportunity to be involved in extension activities such as the NZ Treasury Schools' Challenge, the Reserve Bank Monetary Policy Challenge and essay competitions.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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 the efficiency of market equilibrium	4	91399	External	Y	Y
Demonstrate understanding of the efficiency of different market structures using marginal analysis	4	91400	External	Y	Y
Demonstrate understanding of micro-economic concepts	5	91401	Internal	Y	N
Demonstrate understanding of government interventions to correct market failure	5	91402	Internal	Y	N
Demonstrate understanding of macro-economic influences on the New Zealand economy	6	91403	External	Y	Y

**Course costs:** Students are recommended to purchase a Year 13 NCEA workbook, which helps reinforce and supplement the material covered during class time. This will cost approximately \$40.00. Where possible students are encouraged to BYOD to class as resources used in class are also available on-line.

**Further study from this course:** This can lead to tertiary study. Universities and polytechnics offer throughout the country offer degrees and courses in Commerce, Business or Arts.

**Potential careers that value learning and skills form this course:** Economics can lead to employment in the following sectors: Banks, finance and investment companies, sharebrokers, accounting firms, business services, law firms, major commercial and industrial companies, Reserve Bank, Treasury, Pharmac, Ministry of Foreign Affairs & Trade, Department of Internal Affairs, Department of Labour, Statistics NZ, Ministry of Commerce, NZ Trade Development Board, economic research and consultancy firms, hospital administration and health authorities, local government and planning authorities, universities and other educational institutions, sociologists, and planning.

## English

For further information please see or contact Mr Matt Dadley – [matthew.dadley@obhs.school.nz](mailto:matthew.dadley@obhs.school.nz)

### NCEA Level 3 / Course code: 13ENG

**Entry information:** A minimum of 10 credits in Level 2 English, including AS 91098 or AS 91100 or 91101. Alternative entry to the Level 3 English programme is at the discretion of the HOD English.

**Topics and contexts studied in this course:** The aim of Level 3 English is to provide an interesting and challenging year for able students who are passionate about literature of all sorts and who may or may not wish to study English at tertiary level. The course focuses on the study of a wide range of English Literature and develops skills in analysis, critical thinking and a wide range of writing styles.

The skills necessary to attempt the Scholarship English examination are taught as part of this course, though Scholarship English is not a required undertaking for students.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Careful reading skills, accurate writing skills, critical thinking skills, working with others and cultural competency.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards U.E reading	Counts towards U.E writing
Respond critically to specified aspects of studied written text(s), supported by evidence	4	91472	External	Y	Y
Respond critically to specified aspects of studied visual or oral text(s), supported by evidence	4	91473	External	N	Y
Respond critically to significant aspects of unfamiliar written texts through close reading, supported by evidence	4	91474	External	Y	Y
Produce a selection of fluent and coherent writing which develops, sustains and structures ideas	6	91475	Internal	N	Y
Develop an informed understanding of literature and/or language using critical texts	4	91479	Internal	Y	N
Respond critically to significant connections across texts, supported by evidence	4	91478	Internal	N	N
Create and deliver a fluent oral text which develops, sustains, and structures ideas	3	91476	Internal	N	N

**Course costs:** Nil

**Further study from this course:** The study of English literature as well as English language are both well-established and popular tertiary pathways internationally.

**Potential careers that value learning and skills from this course:** The skills taught in English are valued across a range of career choices. 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. Jobs in administration, finance, general management, law, media and research are examples.

## Food and Nutrition

For further information please see Ms Jacqueline Irving - [jacqueline.iring@obhs.school.nz](mailto:jacqueline.iring@obhs.school.nz) or Ms Emma Moore - [emma.moore@obhs.school.nz](mailto:emma.moore@obhs.school.nz)

### NCEA Level 3 / Course code: 13FDN

**Entry information:** Students who have studied this subject in Years 11 and 12 have prior knowledge and skills that help underpin course content at this level. Students will be working towards a specified programme discussed with the teacher. University Entrance requires 14 Credits using Achievement Standards.

#### Topics and contexts studied in this course:

**What are they selling us? - Fast Food Nation.** This is the exploration of multinational food corporations and the practices they use to influence eating patterns in New Zealand.

**Should NZ impose a sugar tax? –** This standard looks at the ethical dilemma of whether NZ should impose a sugar tax. It needs to be a non-biased approach to a range of different opinions about what makes this issue a dilemma.

**Marketer's dream** - Explore food advertisements and the techniques that are used to influence food choice and well-being.

Additionally, the following topic may be offered:

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Challenging the basis of assumptions and perceptions. Students will effectively respond to sources of information. By working together, they will negotiate different points of view and methods of completing practical tasks successfully.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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
A food related ethical dilemma for New Zealand society	5	91468	Internal	Y	N
Investigation of the influence of multinational food corporations on eating patterns in New Zealand	5	91469	Internal	Y	N
Influences of food advertising on well-being	4	91471	External	N	Y

#### Course costs

Students wishing to undertake food practical lessons will be invoiced if they wish to have ingredients supplied by Otago Boys' High School.

**Further study from this course:** Product development and innovation, culinary arts, nutrition, marketing, food science and technology, hospitality, food manufacturing, human resources.

**Potential careers that value learning and skills from this course:** Research, food technologist, product developer, marketing, chef, hospitality, sports nutrition, dietician, agricultural and business innovation.

## French

For further information please see or contact Ms Elaine Kelly - [elaine.kelly@obhs.school.nz](mailto:elaine.kelly@obhs.school.nz)

### NCEA Level 3 / Course code: 13FRE

**Entry information:** Ideally, you should have completed NCEA Level 2 French. If you have not but have former experience of learning French in a different context then you should see Ms Kelly who will assess whether you qualify to take this course.

**Topics and contexts studied in this course\*:** This course builds on your NCEA Level 2 skills. As well as improving your grammar, you will learn how to justify your opinions and critically analyse the opinions of others. Examples of the kind of topics that may be studied are:

- Environmental issues and how these may influence our future
- Global issues such as war, terrorism, poverty, homelessness, dangers of the internet
- An in-depth film study and or work of literature

\*Students are surveyed at the start of the year to determine which topic areas are of most interest to the class and teaching plans are structured accordingly. A wide variety of authentic materials are used including articles from magazines, news websites for young people, the “Language Perfect” website and other online resources such as “The Language Gym”, “Textivate” and “Teachvid”. Contemporary music and film are included in this course.

#### Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:

- Communicating and Effectively Engaging an Audience (Writing, Verbally, Visually)
- Demonstrating Cross cultural and Bilingual Competence
- Thinking both Critically and Creatively
- Demonstrating Resilience and Solving Problems
- Displaying Effective Interpersonal Behaviour whilst Working Independently and in Teams
- Reflecting on Performance and Personal Learning
- Organising Effectively and Displaying Digital Competence

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – <b>External (November) or Internal (through the school year)</b>	Counts towards U.E reading	Counts towards U.E writing
Give a 3 - 4 minute spoken presentation in French	3	91544	Internal	N	N
Interact in French with your teacher and/or peers (5 minutes over 2 recordings)	6	91545	Internal	N	N
Portfolio of writing (2 pieces) of 500 words minimum	5	91547	Internal	N	N
Listening Comprehension	5	91543	External	N	N



Reading Comprehension	5	91546	External	N	N
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**Course costs:** \$13 for a grammar workbook. Nil if you purchased this previously.

**Further study from this course:** Further study at university as a pure language degree or as a combined language degree with other subjects. There are also several opportunities for you to apply for a range of scholarships to study at a French or Canadian university.

**Potential careers that value learning and skills from this course:**

There are many employment pathways open to you because of learning a language. Obvious jobs such as translator, interpreter or teacher are only a few. There is much research that demonstrates that employers really value the transferable skills that you bring because of learning languages, even if they don't need you to speak a language.

Many companies have suggested that having a second language gives you the competitive edge and a USP (Unique Selling point) over other candidates. It is an unusual qualification that employers respect and that makes you look intelligent. Statistics show that you can also earn more than average if you have a second language.

## Gateway

For further information, please see or contact [jacqueline.irving@obhs.school.nz](mailto:jacqueline.irving@obhs.school.nz)

**To be considered for this course, students must complete the separate application found online via the school newsletter or the school Facebook page. Additionally, students must be selected by the selection panel. There are limited spaces and priority is given to Year 13 students.**

**Boys who apply for Gateway should also choose a full course via the usual option choice process.**

## NCEA Level 3 / Course code: 13GTW

**Entry information:** Students applying for Gateway are expected to have secured NCEA Level 2. The ability to self-manage coursework and twenty days on placement is required. Students motivated to successfully complete a learning package from an Industry Training Organisation (ITO).

**Topics and contexts studied in this course:**

- Health and Safety in the Workplace.
- Produce a Targeted CV
- Demonstrate Timeliness as an Employee
- Site Safe / First Aid – if required
- Financial Planning/ Budgeting
- Interview Techniques
- Knowledge and Skills associated with the Industry gaining work experience

An individual learning plan is devised for each student. This is made up of Core Unit Standards in addition to matched Industry Unit Standards from approved ITOs. Gateway is a timetabled subject to allow support with the completion of Unit Standards. The scope of Unit Standards available will vary as ITOs are in a process of change.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Communication skills, critical thinking skills, working with others, time management, safe and effective use of tools.

Assessments of learning from the course content will be an appropriate and personalised selection from the example list below. All work is externally marked and moderated.

Topic of learning	Credits	Unit Standard Level	Mode of assessment – External (November) or Internal (through the school year)	Counts towards U.E reading	Counts towards U.E writing
Building and Construction Industry Training Organisation BCITO	22	Level 2 mainly	Internal	N	N
Motor Industry Training Organisation MITO	14	Levels 2 and 3	Internal	N	N
Skills NZ Electrical	14	Levels 2 and 3	Internal	N	N
Service IQ Hospitality	14	Levels 2 and 3	Internal	N	N
Southern Institute of Technology Agriculture via Telford	20	Levels 2 and 3	Internal	N	N
Competenz Engineering	14-20	Levels 2 and 3	Internal	N	N
Other Industry as required	Minimum of 10	Levels 2 and 3	Internal	N	N

**Course costs:** Limited allocation of funding from The Tertiary Education Commission pays for ITO (Industry Training Organisation) Unit Standards, personal protection equipment and Health and Safety courses where required. Students and their whanau are responsible for transport costs to and from their host employer.

Students are not paid for the time they spend with their employer. Students are liable for costs associated with Gateway, if they do not meet the terms of their memorandum of understanding with the completion of Unit Standards for their ITO.

**Further study from this course:** Some credits secured from ITOs are Gateway Credits towards Apprenticeship qualifications. Polytechnic and Independent Training Organisations build upon the credits gained from within the school environment. Gateway credits count towards NCEA Level 3.

**Potential careers that value learning and skills from this course:** The skills, employer references, and experiences aid students applying for further education in Polytechnic or ITO training or apprenticeship schemes. Some employers seek students with a successful Gateway experience behind them. Successful students have gone onto apprenticeships, polytechnic, and university or straight to employment opportunities.

## Geography

For further information please see or contact Ms Kate Hope – [kate.hope@obhs.school.nz](mailto:kate.hope@obhs.school.nz)

### NCEA Level 3 / Course code: 13GEO

**Entry information:** A minimum of 12 Level 2 credits in Geography or 12 Level 2 credits in English (3 gained externally).

**Topics and contexts studied in this course:** The Level 3 course covers 2 main areas.

1. Natural Processes: A study of a geographic environment in New Zealand. We study glaciation as our main process.
2. Cultural Processes: A study of a cultural process at work in both a New Zealand and overseas setting. We look at tourism.

The course builds on and develops geographic ideas, understandings, and skills such as fieldwork, research, local involvement (planning issues), resource gathering and presentation. Topics include : human trafficking, social and economic impacts of the diamond industry, Rhythm and Alps, research in Queenstown.

#### Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:

- Skills in research and data collection, analysis and evaluation, mathematical and computational skills;
- Mathematical and computational skills;
- IT skills, for example computer cartography and the use of databases and spreadsheets;
- Written and oral communications skills, including report writing and data presentation;
- The ability to understand abstract concepts and articulate these to a range of audiences;
- Planning and problem-solving skills;
- Creative thinking and the ability to recognise the moral and ethical issues involved in debates;
- The ability to work independently and also in a team, taking on board ideas and coming to a consensus;
- Self-motivation and self-reliance;
- Time management and the ability to meet deadlines.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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 how interacting natural processes shape a New Zealand geographic environment.	4	91426	External	Y	Y
Demonstrate understanding of how a cultural process shapes geographic environment(s).	4	91427	External	Y	Y
Demonstrate understanding of a given environment(s) through the selection and application of geographic concepts and skills.	4	91429	External	Y	Y

Conduct geographic research with consultation.	5	91430	Internal	N	N
Analyse aspects of a contemporary geographic issue.	3	91431	Internal	Y	N
Analyse aspects of a geographic topic at a global scale.	3	91432	Internal	N	N
Apply spatial analysis, with consultation, to solve a geographic problem	3	91433	Internal	N	N

**Course costs:** Level 3 Skills Workbook, costing approximately \$30, and Field Trip to Queenstown for 3 days in Term 1. Approximate cost for the field trip is \$300.

**Further study from this course:** Scholarship Geography is available to students who demonstrate the necessary academic abilities. Geography and related subjects such as Surveying can be studied at university level.

**Potential careers that value learning and skills form this course:**

Jobs directly related to Geography: Cartographer, commercial/residential surveyor, environment consultant, geographic information systems officer, planning and development surveyor, secondary school teacher, town planner.

Jobs where Geography would be useful: International aid/development worker, landscape architect, logistics and distribution manager, market researcher, nature conservation officer, sustainability consultant, tourism officer, transport planner, urban planner, water resources specialist, hydrographer, environmental lawyer, GIS specialist.

## German

For further information, please see or contact Ms Elaine Kelly - [elaine.kelly@obhs.school.nz](mailto:elaine.kelly@obhs.school.nz)

### NCEA Level 3 / Course code: 13GER

**Entry information:** Ideally, you should have completed NCEA Level 2 German. If you have not but have former experience of learning German in a different context then you should see Ms Kelly who will assess whether you qualify to take this course.

**Topics and contexts studied in this course\*:** This course builds on your NCEA Level 2 skills. As well as improving your grammar, you will learn how to justify your opinions and critically analyse the opinions of others. Examples of the kind of topics that may be studied are:

- Environmental issues and how these may influence our future
- Global issues such as war, terrorism, poverty, homelessness, dangers of the internet
- An in-depth film study and or work of literature

\*Students are surveyed at the start of the year to determine which topic areas are of most interest to the class and teaching plans are structured accordingly. A wide variety of authentic materials are used including articles from magazines, news websites for young people, the “Language Perfect” website and other online resources such as “The Language Gym”, “Textivate” and “Teachvid”. Contemporary music is included in this course, and we will watch and discuss at least one film. You

will also have the chance to attend German Camp and have the opportunity to work with native speakers on your internal portfolio of speaking.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:**

- Communicating and effectively engaging an audience (Writing, Verbally, Visually)
- Demonstrating cross cultural and bilingual competence
- Thinking both critically and creatively
- Demonstrating resilience and solving problems
- Displaying effective interpersonal behaviour whilst working independently and in teams
- Reflecting on performance and personal learning
- Organising effectively and displaying digital competence

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – <b>External (November) or Internal (through the school year)</b>	Counts towards U.E reading	Counts towards U.E writing
Give a 3 - 4 minute spoken presentation in German	3	91549	Internal	N	N
Interact in German with your teacher and/or peers (5 minutes over 2 recordings)	6	91550	Internal	N	N
Portfolio of writing (2 pieces) of 500 words minimum	5	91552	Internal	N	N
Listening Comprehension	5	91548	External	N	N
Reading Comprehension	5	91551	External	N	N

**Course costs:** \$13 for a grammar workbook. Nil if you purchased this previously.

**Further study from this course:** Further study at University as a pure Language degree or as a combined Language degree with other subjects. There are also several opportunities for you to apply for a wide range of scholarships to study at a German university.

**Potential careers that value learning and skills from this course:** There are many employment pathways open to you because of learning a language. Obvious jobs such as translator, interpreter or teacher are only a few. There is much research that demonstrates that employers really value the transferable skills that you bring because of learning languages, even if they don't need you to speak a language.

Many companies have suggested that having a second language gives you the competitive edge and a USP (Unique Selling point) over other candidates. It is an unusual qualification that employers respect and that makes you look intelligent. Statistics show that you can also earn more than average if you have a second language.

## History

For further information, please see Mr Alastair Campbell - [alastair.campbell@obhs.school.nz](mailto:alastair.campbell@obhs.school.nz)

### NCEA Level 3 / Course code: 13HIS

**Entry information:** Continuing students must have a minimum of 13 Level 2 credits in History. New students to History who gained NCEA Level 2 including at least one English external are most welcome. Please seek approval from Mr Campbell.

#### Topics and contexts studied could include:

- Turning Points in History
- Origins of World War 1
- New Zealand in the 19<sup>th</sup> Century
- Other appropriate case studies

#### Useful 21<sup>st</sup> Century skills and competencies you will learn:

- critical reasoning and analytical skills, including the capacity for solving problems and thinking creatively
- intellectual rigour and independence, including the ability to conduct detailed research
- ability to construct an argument and communicate findings in a clear and persuasive manner, both orally and in writing
- capability to work without direct supervision and manage time and priorities effectively
- ability to discuss ideas in groups, and to negotiate, question and summarise
- capacity to think objectively and approach problems and new situations with an open mind
- understanding of the different factors that influence the activities of groups and individuals in society.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – <b>External (November) or Internal (through the school year)</b>	Counts towards UE reading	Counts towards UE writing
Research an historical event or place	5	91434	Internal	Y	N
Analyse an historical event or place	5	91435	Internal	Y	N
Analyse evidence relating to an historical event or place	4	91436	External	Y	Y
Analyse different perspectives of a contested event	5	91437	Internal	Y	N
Analyse causes and consequences of an event	6	91438	External	Y	Y
Analyse a significant historical trend	6	91439	External	Y	Y

**Course costs:** \$30 – Senior History Skills Workbook (for those who did not buy a copy for Level 2 History).

**Further study from this course:**

- Scholarship History – in consultation with Mr Campbell
- Higher education including law, business, politics, international relations, and policy.

**Potential careers that value learning and skills form this course:** Accountancy firms, banks, higher education institutions, law firms, management consultancies, non-governmental organisations, publishing, schools, state services, and television and radio broadcasters.

## Year 13 Mathematics and Statistics (offers 3 courses)

For further information, please see Mr Richard Roe [richard.roe@obhs.school.nz](mailto:richard.roe@obhs.school.nz) or Mr Richard Sykes [richard.sykes@obhs.school.nz](mailto:richard.sykes@obhs.school.nz)

### NCEA Level 3 / Course code: 13STA - Statistics

**Entry information:** A minimum of 14 Level 2 credits in Mathematics and Statistics, including Level 2 Inference (2.9) and Probability Methods (2.12). It is beneficial if students have passed their previous Mathematics course with an endorsement at Merit or Excellence.

**Topics and contexts studied in this course:** Statistics at Level 3 will aim to further student understanding of the world of variability. Data varies from sample to sample. Conclusions reached can change for different samples and measuring this variation is a key component of the course. From extending the idea of confidence intervals through to higher level probability concepts and distributions, the course gives an excellent entry into 100 level courses at university. Students will usually take all 3 external examinations.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Critical thinking, the ability to communicate and to report on conclusions drawn from different contexts

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – <b>External (November) or Internal (through the school year)</b>	Counts towards UE reading	Counts towards UE writing
Determine the trend for time series	4	91580	Internal	N	N
Investigate bivariate measurement data	4	91581	Internal	N	N
Use statistical methods to make a formal inference	4	91582	Internal	N	N
Conduct an experiment using experimental design principles	4	91583	Internal	N	N
Evaluate statistical reports	4	91584	External	N	Y

Apply probability concepts in solving problems	4	91585	External	N	N
Apply probability distribution models to solve straightforward problems	4	91586	External	N	N

**Course costs:** \$25 for write-on booklets supplied by the Mathematics and Statistics Department. A graphics calculator, costing approximately \$120.

**Further study from this course:** Mathematics with Statistics leads to further study at 100 level in statistics, physical sciences, arts, psychology, careers include accountancy, actuary, data scientist, ecological/environmental scientist, financial engineering, biomathematics among many others.

**Potential careers that value learning and skills from this course:** Statistics graduates are in high demand as the necessity to process, analyse and interpret huge amounts of data generated by modern technology continues to grow unabated. All industry, government departments and research institutes need strong statisticians. If you have the passion, there will be data and a need for your statistical skills.

### NCEA Level 3 / Course code: 13CAL - Calculus

**Entry information:** Students will have a minimum of 14 Level 2 Mathematics and Statistics credits, including Level 2 Algebra (2.6) and Calculus (2.7). It is beneficial if students have passed their previous Mathematics course with an endorsement at Merit or Excellence.

**Topics and contexts studied in this course:** This is a demanding course that is highly algebraic and theoretical. Topics covered include Differentiation, Integration, Algebra (Complex Numbers), and Trigonometry.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** The ability to think logically and to communicate is recognised in all aspects of modern life. To be able to back this up from theory is key in most industries. The world of information is underpinned by mathematicians with theoretical backgrounds.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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
Apply trigonometric methods in solving problems	4	91575	Internal	N	N
Apply the algebra of complex numbers in solving problems	5	91577	External	N	N
Apply differentiation methods in solving problems	6	91578	External	N	N
Apply integration methods in solving problems	6	91579	External	N	N
Apply systems of simultaneous equations in solving problems	3	91587	Internal	N	N



**Course costs:** \$25 for write-on booklets supplied by the Mathematics Department. A graphics calculator, costing approximately \$120.

**Further study from this course:** Mathematics with Calculus leads to further study in mathematics, statistics, physical sciences, engineering, surveying, high-level commerce and finance.

**Potential careers that value learning and skills from this course:** Research, engineering, surveying, science, statistical modelling, flying, information technology, programming.

### NCEA Level 3/ Course code: 13MAS Mathematics and Statistics

**Entry information:** A minimum of 12 Level 2 credits in Mathematics and Statistics.

**Topics and contexts studied in this course:** This course covers a wide range of mathematical concepts and skills. It introduces students to the world of variability and also some useful skills in project management and financial literacy.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Critical thinking, time management scenarios, planning for long term goals.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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
Apply linear programming in solving problems	3	91574	Internal	N	N
Use critical paths in solving problems	2	91576	Internal	N	N
Investigate bivariate measurement data	4	91581	Internal	N	N
Use statistical methods to make a formal inference	4	91582	Internal	N	N
Conduct an experiment to investigate a situation using experimental design principles	4	91583	Internal	N	N
Evaluate statistical reports	4	91584	External	N	Y
Apply systems of simultaneous equations in solving problems	3	91587	Internal	N	N
Develop a plan to achieve a long-term personal financial goal(s)	4	28100	Internal	N	N

**Course costs:** \$25 for write-on booklets supplied by the Mathematics Department. A graphics calculator, costing approximately \$120

**Further study from this course:** This course provides appropriate Achievement Standards for entry into many university and polytechnic courses and also apprenticeships.

**Potential careers that value learning and skills from this course:** Project management, careers in statistics, careers involving critical thinking and an ability to communicate ideas.

## Workshop Technology Metal

For further information, please see or contact Mr Greg Densem - [greg.densem@obhs.school.nz](mailto:greg.densem@obhs.school.nz)

Boys may choose either Workshop Technology Metal or Workshop Technology Wood, not both.

### NCEA Level 3 / Course code: 13WTM

**Entry information:** Level 2 Workshop Technology Metal with a minimum of 14 credits gained 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.

**Topics and contexts studied in this course:** Brief development, Prototype design and Prototype construction.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Workshop safety, use and care of tools and machinery, brief development, design process, product development, identifying needs and opportunities, advanced welding skills and fitting and turning skills.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – <b>External (November) or Internal (through the school year)</b>	Counts towards U.E reading	Counts towards U.E writing
Develop a conceptual design considering fitness for purpose in the broadest sense	6	91610	Internal	N	N
Demonstrate understanding of how technological modelling supports technological development and implementation	4	91612	Internal	N	N
Implement complex procedures to integrate parts using resistant materials to make a specified product	6	91620	Internal	N	N
Demonstrate knowledge of common engineering materials	3	29550	Internal	N	N

**Course costs:** A base fee of \$100 is included in the school fees to cover the cost of consumable items such as paints abrasives, gas and welding consumables. Metal for the construction of the student's project will be invoiced once a materials list has been developed, and the student decides what and how much they require. Additional items such as hinges, handles, catches, timber, upholstery and any other special materials or components must be sourced and supplied by the student.

**Further study from this course:** University, polytechnic or apprenticeship.

**Potential careers that value learning and skills from this course:** 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, plus many other trades. It is also a good launching pad for tertiary study (especially design or engineering).

## Music

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

### NCEA Level 3 / Course code: 13MUS

**Entry information:** The successful completion of Level 1 (and/or 2) Music. It is recommended students are having instrumental tuition, and knowledge of grade 5 theory is an advantage.

**Topics and contexts studied in this course:** Performance, music technology, theory, various genres depending on individual interests, composition/song writing.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Creative thinking, confidence in performing and speaking to an audience, research skills, self-management, and collaboration.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards U.E reading	Counts towards U.E writing
Perform two programmes of music as a featured soloist.	8 Credits	AS91416	Internal	N	N
Perform a programme as a featured soloist on a second instrument.	4 Credits	AS91417	Internal	N	N
Demonstrate ensemble skills by performing two substantial pieces as a member of a group.	4 Credits	AS91418	Internal	N	N
Communicate musical intention by composing three original pieces of music.	8 Credits	AS91419	Internal	N	N
Integrate aural skills into written representation.	4 Credits	AS91420	External	N	N
Compose three original songs that express imaginative thinking	8 Credits	AS91849	Internal	N	N
Demonstrate understanding of harmonic and tonal conventions in a range of music scores.	4 Credits	AS91421	External	N	N
Analyse a substantial music work.	4 Credits	AS91422	Internal	N	N
Examine the influence of context on a substantial music work.	4 Credits	AS91423	External	N	N
Create two arrangements for an ensemble.	4 Credits	AS91424	Internal	N	N
Research a music topic.	6 Credits	AS91425	Internal	Y	N

**Course costs:** Purchase/Hire of Instrument/Tuition Fees as applicable

**Further study from this course:** Music at university, MAINZ, SIT, Ara Institute of Canterbury

**Potential careers that value learning and skills form this course:** musician, accompanist, music production, composer, songwriter, arranger, film scorer, and education. Collaboration, communication and creativity serve you well in a variety of fields.

## Physical Education (Offers 3 courses)

For further information, please see or contact Mr Mike McGarry - [mike.mcgarry@obhs.school.nz](mailto:mike.mcgarry@obhs.school.nz)

### NCEA Level 3 / Course code: 13PED

**Entry information:** Preferably Level 2 Physical Education.

**Topics and contexts studied in this course:** This 19 credit course 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 will complete the compulsory 15 credits in Terms 1 and 2, and then continue with the UE course or focus on personal training.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Interpersonal skills, self-management and building strong, healthy relationships.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – <b>External (November) or Internal (through the school year)</b>	Counts towards U.E reading	Counts towards U.E writing
<b>Compulsory</b>					
Evaluate the effectiveness of a performance improvement programme for a triathlon	4	91500	Internal	Y	N
Performance of a triathlon against a national standard	4	91501	Internal	N	N
Analyse issues in safety management for outdoor activity to devise safety management	3	91504	Internal	Y	N
Devise strategies for a physical activity outcome	4	91789	Internal	N	N
<b>Optional</b>					
Evaluate Examine a current issue impacting on NZ society	5	91503	Internal	N	N

**Course costs:** Nil

**Further study from this course:** Tertiary level physical education and health sectors.

**Potential careers that value learning and skills form this course:** Health and fitness industries.

## Sports Education

For further information please see or contact Mr Mike McGarry – [mike.mcgarry@obhs.school.nz](mailto:mike.mcgarry@obhs.school.nz)

### NCEA Level 3 / Course code: 13SED

**Entry information:** Nil

**Topics and contexts studied in this course:** Personal training and development. Some Level 3 standards may be offered to students on an individual basis.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Setting goals and working to achieve these. Working in a team and encouraging others to reach their potential.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards U.E reading	Counts towards U.E writing
Performance against a national standard	4	91501	Internal	N	N
Demonstrate exercise and stretching techniques	5	US 30933	Internal	N	N
Demonstrate knowledge of the purpose and protocols of exercise testing	5	US 30936	Internal	N	N
Instruct a Free Weights class	7	US 27712	Internal	N	N
Demonstrate knowledge of the role and responsibilities of a coach, and of coaching beginner-level sport participants	7	US 31675	Internal	N	N

**Course costs:** There is a High-Performance Sport fee of \$100

**Further study from this course:** Personal training courses

**Potential careers that value learning and skills from this course:** Health and fitness industry.

## Outdoor Education

For further information, please see or contact Mr Mike McGarry - [mike.mcgarry@obhs.school.nz](mailto:mike.mcgarry@obhs.school.nz)

### NCEA Level 3 / Course code: 13ODR

**Entry information:** Nil

**Topics and contexts studied in this course:** Developing a passion for the outdoors in a safe working environment. Teamwork is a vital component.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards U.E. Literacy	Counts towards U.E. Numeracy
Devise Strategies for a physical activity outcome	4	91789	Internal	N	N
Practical performance against a national standard	4	91501	Internal	N	N
Analyse issues in safety management for a challenging outdoor activity	3	91504	Internal	N	N
Demonstrate sea kayaking skills on coastal water	2	US 19428	Internal	N	N
Demonstrate top rope rock climbing and belaying skills on Ewbank Grade 14 and above	2	US 20150	Internal	N	N
Demonstrate knowledge of weather information for an outdoor activity	2	US 20159	Internal	N	N

**Course costs:** A set fee for each outdoor activity will apply. This will be outlined to students when they opt for the activities set for 2023. The total is approximately \$1000.

**Further study from this course:** Physical Education and recreation courses at university and polytechnic.

**Potential careers that value learning and skills form this course:** Teaching and tourism.

## Physics

For further information, please see Mr Hamish Robb – [hamish.robbs@obhs.school.nz](mailto:hamish.robbs@obhs.school.nz)

### NCEA Level 3 / Course code: 13PHY

**Entry information:** Students should have at least passed the Level 2, 2.4 Mechanics and 2.5 Atomic & Nuclear Physics standards. They will also need sound algebra and calculus skills.

**Topics and contexts studied in this course:** Modern physics, including quantum mechanics and the wave-particle duality of light; physics of music, waves and light, mechanical systems, including rotational motion and oscillating systems; the relationship between some of the physics concepts and everyday life.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Investigating and explaining modern physics, applying mathematical formulae to physical situations and relating the physics studied back to everyday life, problem solving, data analysis, scientific reporting, numeracy.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – <b>External (November) or Internal (through the school year)</b>	Counts towards Level 3 Literacy	Counts towards Level 3 Numeracy
Modern Physics	3	91525	Internal	N	N
Physics In my World	3	91522	Internal	N	N
Mechanical Systems	6	91524	External	N	N
Wave Systems	4	91523	External	N	N

**Course costs:** The recommended workbook is available for \$28

**Further study from this course:** Health sciences, engineering, university physics, astrophysics, civil engineering, architecture.

**Potential careers that value learning and skills from this course:** Medicine, astrophysics, energy management, engineering, architecture, geophysics, meteorology, software engineering, computer engineering, research, project management, army, navy, and air force.

## Te Ao Haka-Reo Māori

For further information please contact Matua Vai Mahutariki - [vai.mahutariki@obhs.school.nz](mailto:vai.mahutariki@obhs.school.nz)

### NCEA Level 3 / Course code: 13MAO

**Entry information:** A genuine interest in Māori culture and Te Reo Māori. Experience with Kapa Haka and Māori Performing Arts is advantageous as well as 12MAO in the previous year.

**Topics and contexts studied in this 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 Māori events, personal hopes and aspirations for the future, myths and legends. The course aims to further develop what has been previously learnt.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Collaboration and teamwork, creativity and imagination, critical thinking, problem solving, global and cultural awareness, information literacy, leadership, oral and written communication skills, social responsibility and ethics, technology literacy, initiative.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

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
Reflect on a personal learning journey in a discipline in Te Ao Haka	5	91984	Internal	N	N
Kōrero kia whakamahi i te reo Māori o te ao whānui	6	91651	Internal - Optional	N	N
Perform three categories within a discipline of Te Ao Haka	5	91985	Internal	Y	N
Perform two Te Ao Haka disciplines	5	91986	External	N	Y
Demonstrate understanding of a key role in Te Ao Haka	5	91987	External	N	Y

**Course costs:** Nil

**Further study from this course:** University or other tertiary education and beyond.

**Potential careers that value learning and skills form this course:** 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 Māori 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, and archivist.

Students who wish to study a full year course in Te Reo Māori should contact Matua Vai Mahutariki – [vai.mahutariki@obhs.school.nz](mailto:vai.mahutariki@obhs.school.nz) or Ms Anne Gorman – [anne.gorman@obhs.school.nz](mailto:anne.gorman@obhs.school.nz)



## Workshop Technology Wood

For further information, please see or contact Mr Johnny Simmons - [johnny.simmons@obhs.school.nz](mailto:johnny.simmons@obhs.school.nz)

Boys may choose either Workshop Technology Metal or Workshop Technology Wood, not both.

### NCEA Level 3 / Course code: 13WTW

**Entry information:** Students must have successfully completed a Level 2 course in Wood Technology. A Level 1 course in either Wood or Metal Technology would be strongly recommended.

**Topics and contexts studied in this course:** Students can select any project of their choice at Level 3 as long as it is challenging enough for a Level 3 course. The type of project and degree of difficulty involved will determine the number of credits available from Unit Standards through to Achievement Standards and Scholarship.

**Useful 21<sup>st</sup> Century skills and competencies you will learn in this course:** Problem solving, creativity, eye-hand co-ordination, good work ethic, neatness, accuracy, communication and social skills.

Assessments of learning from the course content will be an appropriate and personalised selection from the list below.

Topic of learning	Credits	Achievement standard number	Mode of assessment – External (November) or Internal (through the school year)	Counts towards Level 1 Literacy	Counts towards Level 1 Numeracy
Conceptual design	6	AS 91610	Internal	N	N
Implement complex procedures	6	AS 91620	Internal	N	N
Technological modelling	4	AS 91612	External	N	N
Level 3 Project	12	US 29684	Internal	N	N
Hand Tools/Machines	4	US 29682	Internal	N	N
Material Knowledge	4	US 29678	Internal	N	N

**Course costs:** \$50 for general workshop consumables and students are to supply their own timber.

**Further study from this course:** Design and manufacturing course at either a university or polytechnic, pre-trade course at polytechnic or any apprenticeship.

**Potential careers that value learning and skills from this course:** All trade related careers.

# Highly recommended websites

<https://youthguarantee.education.govt.nz/>



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.

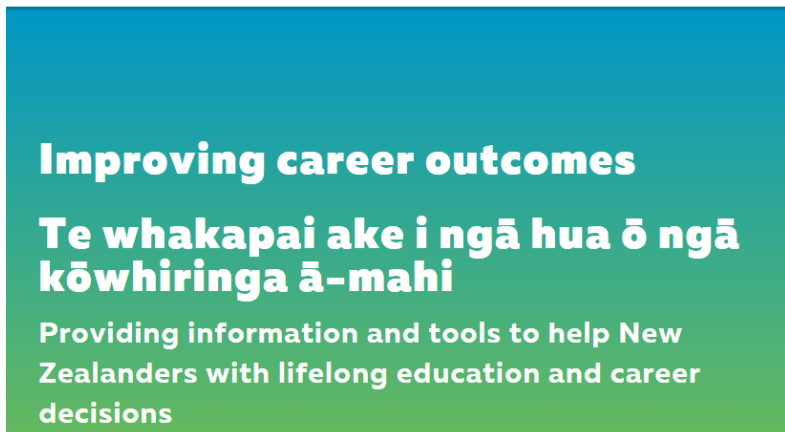
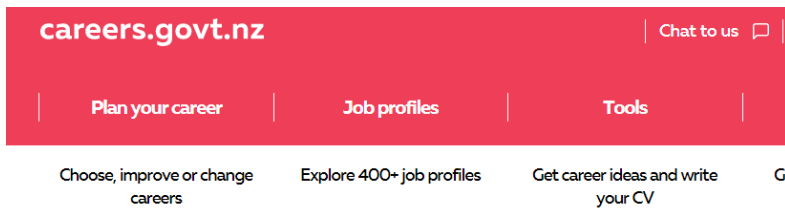
## About



## STUDENTS KEY INFO.

GET QUALS & SKILLS VALUED BY EMPLOYERS

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



<http://www.justthejob.co.nz/>



**We don't stop going to  
school when we graduate.**

Carol Burnett

