



Senior Student

Course Booklet

For

2024

Students Name: _____

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Foreword

Welcome to the senior course booklet for 2024. The information contained in this course booklet is important and we strongly encourage students from Years 10 – 12 to read through it with care. Likewise parents and caregivers you are asked to make yourselves familiar with its content and discuss it with your child.

Each page contains information about the subjects that may be offered in 2024. Whether a course is finally offered, and in what format, will be decided after students have indicated their interests on the subject list handed out early Term Four. It is from these expressions of interest that numbers wishing to take courses will become clearer.

Please take time to read through the advice on the next page about what should determine your choices. We want you to take a subject in 2024 for all the right reasons.

Think carefully, consult widely, choose wisely and make 2024 your best year at East Otago High School.

I wish you every success.

Marcus Cooper

Principal

General Information

At East Otago High School we believe in the well balanced all round achiever. We encourage students to participate in as many aspects of school life as practical. Yet there is an expectation that your first priority will be focused on academic achievement.

- In Year 11 you will study SIX subjects
- In Year 12 you will study SIX subjects
- In Year 13 you will study FIVE subjects as well as having a study line

It is important to note that we will not be offering a Level One qualification in 2024 but instead, we will be preparing students for L2 in 2025. Our key focus will be literacy and numeracy while we plan to offer some L2 standards in 2024, when students are ready for them.

Level one students will still be able to take the same course as the past and will be required to submit assessments but they will have a broader exposure to the curriculum within each subject.

Some Level one subjects already offer Level two standards, such as BCats and Gateway.

Level two and three course will continue as normal.

Distance Learning – due to numbers, it may not always be possible for the school to offer a face to face class with a teacher in front of students. Other distance learning options exist and have proven to be extremely successful for those who are motivated in taking a subject of interest. This distance learning can take on one of several formats:

- Video Conferencing – courses involve students in having a period per week through a Google Meet link with a teacher from another school. In this period much of the theory work is covered along with the demonstration of examples/exercises. Students are then set work to continue with for the remaining periods in the week. Students are able to contact tutors via email or other electronic means for additional support. Work is assessed by that teacher and feedback/feed forward provided.

Gateway - is a structured workplace learning option, designed for Years 11, 12 and 13 students who are ready to explore a career option in the workplace. It is designed to strengthen the pathway for students to progress from school to workplace learning. Students are placed in a workplace

-usually one day a week - where they gain practical experience in a particular industry and work towards credits provided by related Industry Training Organisations (ITOs).

Entry to the Gateway programme is by application, and an interview with the Gateway Coordinator, to determine whether a student is 'work ready', has a clear career direction or an apprenticeship in an industry of interest and has the motivation to study independently.

All Gateway units generate credits at levels 2 or 3 towards the Gateway student's record of learning. The range of pathways available includes, but is not limited to: forestry, retail, engineering, mechanics, beauty therapy, apiculture, business basics, hairdressing, hospitality, bike mechanics, baking, mining, equine pathways, animal care, nursing, childcare, teaching, farming, jewellery making, interior decorating, I.T., and much more. Please contact the Gateway Coordinator if you have a career pathway that you would like to explore.

STAR (Secondary Tertiary Alignment Resources) - The STAR programme can include work-based learning, lead towards credits for units standards for vocational, education and training courses at Level 1 of NCEA or above, and includes short 'Taster courses', giving students experience and knowledge in an area of interest. Some of these courses have credits attached to them while others are aimed at providing students with new experiences/knowledge in a given field of interest in order to help them make a better choice for the future.

The school reserves the right to withdraw students at any time from these courses, if they demonstrate a lack of commitment, poor attendance, or are not meeting the work requirements. This may require caregivers to pay for all of or part of a course that school has paid for initially.

When a student is withdrawn from a course he/she will be required to add to his/her timetable another course offered by the school.

Advice on Selecting Your Courses

East Otago High School has developed its own multi-Level course structure that allows students to select subjects at a level that meets their needs and provides sufficient challenge. Students need to realise that whilst every endeavour is made to accommodate all students in the design of the option structure, not all combinations are possible. Consequently, students must consult and communicate their needs according to the timeline set.

How to choose your subjects:

- a) Interest. This is the most important factor. Students must choose the subjects that interest them most. There is no point in choosing a subject because it is “good for you” if students have no interest in it. Such a decision may ultimately disadvantage candidates.
- b) Past Performance. It is important that students are realistic about their skills and ability. Students should seek the advice of teachers about their capacity to cope with a particular course.
- c) Future Ambitions. Some courses are a desirable preparation for future courses or careers and a few are prerequisites. A guide to some of these prerequisites is given at the back of this booklet. Students should consult the careers advisor if further information is required.
- d) Information. It is wise to carry out as thorough an investigation as possible to determine which courses suit you best.
- e) Ability. How good are you at a subject and how easily do you understand it? Your test marks and your work will help you estimate your ability. Discuss your ability with your teacher as you may have a false idea of how well you can do something. Be careful not to under-rate your ability.

Don't get caught up in the following myths.

My friends are doing it

Mr/s X is/is not teaching it

It will get me into University or it will get me a job

Can't think of anything else

I'll drop it after Year 11 anyway!

It won't be running next year

Changing a Course or Subject

Once the year has started such changes are discouraged, as it requires a huge effort to catch up in the new subject. Changes will only be permitted within the first four weeks or in exceptional circumstances. The formal 'change of option' flow chart and application forms must be used.

NCEA Qualification Structure

In the senior school students are working towards their National Certificates in Educational Achievement (NCEA) at Levels 1, 2 or 3. The Government has made it very clear that in order for students to be competitive and able to meet the challenges that life will throw at them in terms of employment they need to gain at least Level Two NCEA.

In order to achieve a particular Level students need:

Level One NCEA - We will not offer Level One as a qualification but focus on preparing for Level Two in 2025, while offering some Level Two standards and ensuring students are better prepared for the literacy and numeracy external assessments.

Level One will be automatically gained once Level two is achieved.

- Gaining 10 credits in the literacy assessments
- Gaining 10 credits in the numeracy assessments

Level Two NCEA - a total of 80 credits

- at least 60 of these credits must be at Level Two or above
- the remaining 20 credits can be from any Level, including Level One

Level Three NCEA - a total of 80 credits

- at least 60 of these credits must be at Level Three or above
- the remaining 20 credits can be from Level Two or above

Endorsements

The New Zealand Qualification Authority (NZQA) has recently introduced subject and certificate endorsements as a means of distinguishing student achievement as well as providing an incentive for students to strive for higher grades.

Certificate endorsement - a student can gain a National Certificate of Educational Achievement endorsed with:

MERIT = at least 50 credits are gained at Merit or above

EXCELLENCE = at least 50 credits are gained at Excellence

Course endorsement – a student may gain a subject endorsement when they:

MERIT = at least 14 credits are gained in that subject at Merit or above (three of which must be from both internally and externally assessed standards*)

EXCELLENCE = at least 14 credits are gained at Excellence (three of which must be from both internally and externally assessed standards*)

* this rule does not apply where a subject is completely internally assessed.

University Entrance

The new UE requirement will continue to be the **minimum** requirement for entry to university.

For 2024, students will need all of the following to be awarded UE:

UE requirements for 2024

Achievement of **NCEA Level 3**

14 credits in each of **three** subjects from the list of approved subjects.

UE numeracy - 10 credits at Level One or above from specified achievement standards or all three specific numeracy unit standards

UE literacy - **10 credits** (five in reading and five in writing) from

- specific Level Two and above achievement standards, or specific Te Reo Māori and Te Reo Rangatira Level Two and above standards, or
- two specific Level Four English for academic purposes unit standards, or
- an academic literacy common assessment tool (CAT) at Level Three (no credit value, run by NZQA).

University Entrance – Approved List

The following is a list, as approved by NZQA,
of the subjects that may be counted for University Entrance purposes.

Accounting	Processing Technologies
Agriculture & Horticulture	Religious Studies
Biology	Samoan
Business Studies	Science. Can be combined with Bio, Chem, Phy.
Calculus	Social Studies
Chemistry	Statistics
Chinese	Technology
Classical Studies	Te Reo Māori
Construction and Mechanical Technologies	Te Reo Rangatira
Cook Islands Māori	Korean
Dance	Latin
Design (Practical Art)	Mathematics Media Studies
Digital Technologies	Music Studies
Drama	Painting (Practical Art)
Earth and Space Science	Photography (Practical Art)
Economics	Physical Education
Education for Sustainability	Physics
English	Printmaking (Practical Art)
French	
Geography	
German	
Health Education	
History	
History of Art	
Home Economics	
Indonesian	
Japanese	

Caution?

Please check the latest information on www.nzqa.govt.nz and do a search on the approved subject list

Courses of study 2024

The table below shows the subject available in the senior school. Some subjects will be offered through distance learning. Students and caregivers need to remember that if a new course is created, then it is possible another may disappear as we are generally working with the same number of staff.

	NCEA LEVEL 1 (Y11)	NCEA LEVEL 2 (Y12)	NCEA LEVEL 3 (Y13)
<i>Compulsory</i>	English and Mathematics. Maybe two separate pathways		
<i>highly recommended</i>	Science	Mathematics and English	
<i>Optional subjects</i>	Any FOUR of: (4 periods per subject per week) Agricultural Science Art (visual) BCATS -Building, Construction & Allied Trades Business Studies Digital Technology Home Economics Humanities, (combination of Geography and History) Music Physical Education Foundation Studies Te Reo Maori	Any Six of:(4 periods per subject per week) Art (visual) Biology BCATS -Building, Construction & Allied Trades Chemistry Gateway (Yrs 12 & 13) Home Economics Humanities (combination of Geography and History) Mathematics Physical Education Outdoor Education Physics Music Foundation Studies Business Studies Agricultural Science	Any FIVE of: (4 periods per subject per week) Art (visual & painting) Biology BCATS or Technology Tools Chemistry English Gateway (Yrs 12 & 13) Geography History Home Economics Mathematics with Calculus Music Physical Education Outdoor Education Physics Statistics Foundation Studies Agricultural Science
<i>Likely VC or Te Kura (The Correspondence School)</i>	Not offered at Y11 in 2024	See Mr Fleury for options outside of what EOHS offer These subjects are suitable for skilled and independent learners only	See Mr Fleury for options outside of what EOHS offer These subjects are suitable for skilled and independent learners only

From this point on, each page contains information about the subjects that MAY be offered in 2024. Whether a course is finally offered, and in what format, will be decided after students have indicated their interests on the subject list handed out late in term 3. It is from these expressions of interest that numbers wishing to take courses will become clearer.

What does "Pre-requisite mean?"

This is what you need to have achieved, or need to be able to do, to undertake a study of this subject at a particular level

Procedure for selecting your subjects for 2024:

1. The option selected will be available on the Parent Portal. A timeframe will be set in Term 4.
2. Please read the options available to you at the level you are studying in 2024.
3. Please discuss your option thoughts with both the teacher of the subject and your parents/caregivers at home.
4. Make sure you are aware of how the subject may be taught in 2024. Some may be via video conference or correspondence school.
5. Logon to the parent portal and select the Option Selection feature to make your subject selections.
Please do not forget to save your selection.

My subject choices for 2024 will be:

Although you will complete your option selection via the Parent Portal, please identify your subject selection here. Also put at least two alternative subjects you would like to take if there is a clash with your first selection or the numbers are too low to allow the subject to run.

Year Level	Subjects Selection	Alternative Subjects

The selection process via the parent portal is due to be complete by Wednesday the 25th of October. Simply login to the Portal with your school details and make your subject selection for the level you will be sitting in 2024.

Art (Visual)

LEVEL ONE

Credits: 4 credits at Level Two

Leads onto: Level 2 Visual Art

Students doing this course are offered the opportunity to develop skills using a range of media as well as exploring different artist models that they will reference for their own work. This is to help develop skills and experience in preparation for NCEA Level Two. There will be a research component to this program as students will need to explore relevant artist models and also look at techniques other artists use, specifically artists within New Zealand but also other artists that are relevant to their field of practice. This program will be largely skills based with an emphasis on developing observational skills and confidence in working across more than one field of practice. There will be a photography component alongside drawing and painting and use of mixed media . Students will also be given the opportunity to complete some Level Two credits if they are ready by Term Three

The program will look look at the following concepts:

- Developing skills in a range of media both wet and dry to record information, including pencil, charcoal, ink and pen, watercolor, acrylic paint and mixed media .
- Developing drawing conventions in different fields of practice including photography as well as painting.
- Develop and produce work that is informed by established practice, that shows development of ideas and uses a range of media.

Cost: Nil

Pre-requisite: Year 10 Art results or proof of ability at this Level.

Teacher Contact: Miss Rachel Foster

Art (Visual)

LEVEL TWO

Credits: 20

Leads onto: Level Three Visual Art - Painting

Students following this course are offered the opportunity to be assessed in three standards -

- AS 91311 2.2 *Use drawing methods to apply knowledge of conventions appropriate to painting.* 4 credits
- AS 91316 2..3 *Develop ideas in a related series of drawings appropriate to established painting practice.* 4 credits
- AS91321 2.4 *Produce a systematic body of work that shows understanding of art making conventions within painting.* 12 credits

All standards are internally marked and externally moderated. Depending on the record of achievement, some students may wish to submit for

AS 91306 2.1 *Demonstrate understanding of methods and ideas from established practice appropriate to painting.*(4 credits) or they may choose fewer standard

Pre-requisite: NCEA Level 1 Visual Art or proof of ability at this Level.

Teacher Contact: Miss Rachel Foster

Art (Visual) - Painting

LEVEL THREE

Credits: 26

Leads onto: Tertiary study or employment.

Students following this course are offered the opportunity to be assessed in four standards -

- AS 91441 3.1 *Analyse methods and ideas from established practice.* 4 credits
- AS 91446 3.2 *Use drawing to demonstrate understanding of conventions appropriate to painting.* 4 credits
- AS 91451 3.3 *Systematically clarify ideas using drawing informed by established painting practice.* 4 credits.
- AS91456 3.4 *Produce a systematic body of work that integrates conventions and regenerates ideas within painting practice.* 14 credits.

Standards 3.1, 3.2 and 3.3 are internally marked and externally moderated.

Standard 3.4 is externally assessed.

This course allows students to develop independent thinking, art making and study skills in preparation for study at University, Polytechnic or work in the Art sector

Pre-requisite: Level Two Visual Art or proof of ability at this level.

Teacher Contact: Miss Rachel Foster

All Senior Art students are encouraged to purchase an Art Pack, (\$50) from the school which will allow them to work at home with their own equipment. There is no set homework for this course but students are expected to work at home.

CAREER OPPORTUNITIES: A study of the visual arts provides valuable background for careers such as architect, engineer, teacher, printer, animator, graphic designer, photographer, landscaper, publisher, advertising, work in the film industry, make-up, illustrator, fashion designer, interior decorator, events co-ordinator, freelance artist, hairdresser, a worker in the hospitality industry, chef - in fact, most careers requiring a creative input.

Biology

LEVEL TWO

Credits: 14 (4 external and 11 internal)

Leads onto: Level Three Biology

Biology is the study of living things and how they interact with each other and the environment. In the Level 2 Biology course, students will explore the diverse ways in which animals and plants carry out their life processes. Students will also learn about genetic variation and evolutionary change. The course will include a field trip.

Course Content

- Practical Investigation in Biology
- Investigate Patterns in Ecological Communities
- Genetic Variation and Change
- Adaptations of animals to their way of life

Course costs: Nil

Biology is a subject that leads to many careers (For example medicine, agriculture, fisheries, forestry, food technology, research, teaching, conservation). Chemistry is a useful co-requisite if planning to continue to tertiary studies.

Pre-requisite: Have taken Level 1 Science or with HOD Science approval

Teacher Contact: Dr McIntyre

Biology

LEVEL THREE

Credits: 14 (10 internal and 4 external)

Leads onto: Tertiary Study

Biology is the study of living things and how they interact with each other and the environment. Level 3 Biology builds on the knowledge and skills gained in the Level 2 course, and students learn how to make informed decisions about significant biological issues. Students will learn about the relationships between organisms and their environment as well as the evolutionary processes that have resulted in the diversity of life on Earth. There will be a field trip to carry out the experimental work for the practical investigation.

Course Content:

- Practical investigation in a biological context
- Homeostasis- how an animal maintains a stable internal environment
- Human manipulations of genetic transfer and their implications
- Evolutionary processes leading to speciation

Course costs: Field trip (cost to be confirmed)

Biology is required for most science study at Tertiary Level (e.g. health sciences, food science, marine science, nursing, veterinary science) and can lead to careers in areas such as teaching, a technician in laboratories, animal welfare, conservation and agriculture. Chemistry is a useful co-requisite if planning to go on to tertiary studies.

Biology is an approved University Entrance (UE) subject. Science is also an approved UE subject and the 14 credits can come from a combination of Biology, Chemistry and Physics standards. Many of the Level 3 Biology standards contribute credits to UE literacy requirement.

Pre-requisite: 7 Level Two Biology credits or with HOD Science approval

Teacher Contact: Dr McIntyre

BCATs -Building, Construction & Allied Trades

LEVEL ONE, TWO and Three National Certificate

Credits: 21 available credits at Level 2 and 26 available credits at Level 3. Leads onto: Trade courses

The National Certificate in Building, Construction and Allied Trades Skills, Level Two and Three will be offered to students in Year 12 and 13. The qualification covers skills in communication, literacy, numeracy, quality standards, workshop procedures, drawing and sketching, job specifications, health and safety, materials knowledge (including timber, metal, plastic, and glass) hand tools, power tools, and operating fixed machinery. Students will be designing their own projects within a budget and constraints to fit within the course.

At Level Two there are five compulsory units (21 credits) to gain a National Certificate. At Level Three there will be a number of credits available. Undertake a Stage 3 BCATS project, following safe workplace practices and contribute to a health and safety culture, in a BCATS environment. Demonstrate knowledge of, select, and use materials for a Stage 3 BCATS project. Develop and use BCATS project documentation for a Stage 3 BCATS project. Communicate and work collaboratively in a Stage 3 BCATS project. Measure and calculate for a Stage 3 BCATS project. Select, use, and maintain tools, equipment and machinery for a Stage 3 BCATS project. Incorporate other building, construction and allied trades into a Stage 3 BCATS project schedule.

Cost: The cost of this subject is for all materials used in the construction of the student's projects and finishing materials. Projects in the past have ranged in cost from approximately \$100 to \$300 depending on the student's designs. Level three projects can be more expensive which is dependent on the project undertaken and that it conforms with the Level three Building Construction and Allied Trade skills requirements. Students are to discuss this with parents/caregivers and Teacher before commencing. Payments can be made by installments over the year through an arrangement with our School.

Prerequisite: It is envisaged that students will have completed adequate studies to progress to Level 2. For Level 3, students will have completed Level 2 in Building Construction and Allied Trades Certificate Course.

Teacher Contact: Mr Fuller

Business Studies

LEVEL ONE

Credits: 3 to 6 credits. Maximum of two Level Two standards from Term 3

Leads onto: Level Two Business Studies 2025

Level One Business Studies is a follow-on from business units covered in Social Studies. It is based on small business and looks at the key features of being a successful business owner including supply and demand, accounting decisions and marketing. The course aims to offer a wide spread of business studies and economics while maintaining relevance to the local community. The course will better prepare you for Level Two in 2025, while giving you a range of financial literacy skills and an understanding of business concepts.

This course is delivered through EOHS.

The Level One Business course covers six main topics:

- Small Businesses
- Making Accounting Decisions
- Marketing
- Supply and Demand
- Producer Decision and Choices
- NZ Economy
- Financial Literacy
- Motivational concepts in Business

Course costs:

Nil

Prerequisite: Open entry but with a good level of Mathematics at Year 10.

Teacher Contact: Mr Fleury

Business Studies

LEVEL TWO

Credits: 19 (11 internal)

Leads onto: Level Three Business Studies

Level Two Business Studies is a follow-on from Level One. It is based around Business Studies, Agribusiness and Economics standards. eg It will look at the key concepts of supply, demand, unemployment, inflation and market research. It aims to offer a wide spread of ideas with relevance to students lives and the local community.

The Level Two Business course covers six main topics:

- Unemployment ● Inflation ● Market Research
- Economic Growth ● Accounting Decisions
- Agribusiness ● Recruitment

Course costs: Nil

Pre-requisite: 14 credits at Level One Business Studies or HoD approval.

Teacher Contact: Mr Fleury

Chemistry

LEVEL TWO

Credits: 15 (4 external and 11 internal)

Leads onto: Level Three Chemistry

Chemistry is everywhere and all matter is made of particles. Level Two Chemistry will look at the fundamental building blocks of materials (elements), and the compounds they form. Students will investigate and measure the chemical and physical properties of a range of substances as well as develop an understanding of and use the fundamental concepts of chemistry to interpret observations. Experimental work is a large component of the majority of the Level 2 Chemistry internally assessed standards.

Course Content

- Chemical Reactivity
- Oxidation and Reduction
- Quantitative Chemistry
- Qualitative Chemistry

Chemistry is required for most Science studies at Tertiary Level (e.g. health sciences, agriculture, food science, engineering, marine science, nursing, teaching, veterinary science). It is also useful for vocational pathways for example: technicians in laboratories, beauty therapists, vet nursing and in industries such as mining, forestry, fishing and agriculture.

Pre-requisite: Have taken Level 1 Science or HOD Science approval

Teacher Contact: Dr McIntyre

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Chemistry

LEVEL THREE

Credits: 15 (10 internal and 5 external)

Leads onto: Tertiary Study

Chemistry is the study of the material world around us. Level Three Chemistry builds on concepts studied in Level Two Chemistry with Experimental work and analysis of results is a large component of this course. Students will also explore how Chemistry is used in society. The Level 3 course includes a 2 day field trip to the University of Otago Chemistry Department to carry out the experimental work for the extended chemistry investigation.

Course Content

- Thermochemistry and properties and particles and substances
- Oxidation and Reduction Processes
- Extended Chemistry investigation - involving quantitative analysis
- Chemical processes in the world around us

Chemistry is required for most science study at Tertiary Level (e.g. health sciences, agriculture, food science, engineering, marine science, nursing, veterinary science) and can lead to careers in areas such as teaching, technician in laboratories, nursing and industries such as mining, forestry, fishing and agriculture.

Level 3 Chemistry is an approved University Entrance (UE) subject. Science is also an approved UE subject and the 14 credits can come from a combination of Level 3 Biology and Chemistry and Physics standards.

Pre-requisite: 7 Level Two Chemistry credits or HOD approval

Teacher Contact: Dr McIntyre

Digital Technology

LEVEL ONE

Credits: 4 to 8 credits at level two from Term Two onwards

Leads onto: Level Two Digital Technology

Course of Study

This course is a Level Two Achievement Standard and practical application course and is designed to give you skills and knowledge in the following:

- An understanding of the basic concepts of information management
- File management
- Desktop publishing
- Research and process information from different sources
- Knowledge of a personal computer system
- Keynote presentation
- Basic programme development
- Robotics and how they help our lives
- Animation production

Pre-requisite: Open entry.

Teacher Contact: Mr Fleury

English

LEVEL ONE

Literacy Standards: Students will study **US 32403 (Reading)** and **US 32405 (Writing)**

Credits: up to 7 Level 2 Credits as well as 10 Level 1 NCEA Literacy Credits

Leads onto: Level Two English

Course Description

English is the study, use, and enjoyment of language and literature communicated orally, visually, and in writing for a range of purposes and audiences and in a variety of text forms. In this course you will continue to explore and develop a range of vital skills and key competencies to prepare you for the future. English is a subject that will help you with a range of employment options and life experiences.

Course of Study

Some of the following strands:

- Responding to and thinking critically about a range of texts - reading response logs
- Showing understanding of a visual text through close viewing - film study
- Constructing and delivering an oral presentation - persuasive or practical
- Producing formal & creative writing
- Showing understanding of unfamiliar text through close reading
- Showing understanding of studied written text(s) - novel study

Prerequisite: Successful completion of Level Five English.

Teacher Contact: Mr Strang

English

LEVEL TWO

Credits: up to a possible 24

Leads onto: Level Three English

Course of Study

Some of the following strands:

- Producing a crafted and developed writing portfolio
- Delivering an oral presentation
- Investigating a language or literature topic and presenting information in written form
- Reading, studying and responding to extended written texts, short written texts and visual/oral texts
- Analysis of a studied written text
- Analysis of a studied visual text
- Analysis of a visual text through close viewing

Prerequisite: A minimum of 12 credits in Level One Achievement Standards, including **one** External Achievement Standard in English, as well as Level One Literacy.

Teacher Contact: Mr Strang

English

LEVEL THREE

Credits: up to a possible 21

Leads onto: Tertiary Studies

Course of Study

Some of the following strands:

- Producing a selection of fluent and coherent writing in the form of a portfolio
- Constructing and delivering a valedictorian speech
- Responding critically to studied written text
- Responding critically to studied visual text
- Candidates must be prepared to sit **at least one** external exam when signing up for this course
- Analysis of connections across texts through a critical literary lens

Prerequisite: A minimum of 12 credits in Level Two Achievement Standards, including **one** External Achievement Standard in English, as well as Level One Literacy or HoD approval.

Teacher Contact: Mr Strang

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Foundation Studies

LEVEL ONE

Credits: Maximum 6 credits at Level Two from Term 3 onwards.

Description:

Kura Units are intended to assist people engaging or re-engaging with learning- particularly learners who have not previously experienced education success or for whom the secondary schooling context may not be appropriate. They are also a complementary subject for those taking Gateway where students may be away from school during the week for work-experience related purposes. Individuals will cover a number of units that cover a range of contexts and develop skills in the following:

- Using self-management strategies to organise their own personal life, including strategies for continuing learning and for building general knowledge and context-specific skills.
- Interact positively in a classroom environment and progress towards related learning and career goals, with guidance.
- Apply basic literacy, language, numeracy, digital literacy, learning and context-specific skills to everyday life in a relevant context.

This course will include a wide range of topics, options and experiences relevant to the learner and the contents and can include any of the following:

- Positive workplace relationships.
- How to respond to cyberbullying.
- Improving personal well-being.
- Effects of alcohol and other drugs.
- Employee Obligations.
- The impact of credit and debt on personal finances.
- Understanding fake online information.
- Develop strategies to organise your life.

Pre-requisite: None.

Required Materials: Workbooks will be needed for each topic undertaken are provided.

Teacher Contact: Miss Kempthorne

Foundation Studies

LEVEL 2 & 3

Credits: 18 at each level

Description:

Kura Units are intended to assist people engaging or re-engaging with learning- particularly learners who have not previously experienced education success or for whom the secondary schooling context may not be appropriate. They are also a complementary subject for those taking Gateway where students may be away from school during the week for work-experience related purposes. Individuals will cover a number of units that cover a range of contexts and develop skills in the following:

- Using self-management strategies to organise their own personal life, including strategies for continuing learning and for building general knowledge and context-specific skills.
- Interact positively in a classroom environment and progress towards related learning and career goals, with guidance.
- Apply basic literacy, language, numeracy, digital literacy, learning and context-specific skills to everyday life in a relevant context.

This course will include a wide range of topics, options and experiences relevant to the learner and the contents and can include any of the following:

- Personal well-being
- Time management
- Self-management
- Personal health and safety practices
- Cultural identity
- Group work
- Communication skills
- Numeracy skills
- Goal setting, including learning, life and career goals.
- Learning skills
- Problem solving
- Work readiness skills

Pre-requisite: None.

Required Materials: Workbooks will be needed for each topic undertaken are provided.

Teacher Contact: Miss Kempthorne

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Gateway

Credits: Minimum of 20 – no maximum

Leads onto: credits towards a NZ certificate or an apprenticeship in chosen field//Tertiary Study.

The GATEWAY programme is designed for Year 11, 12, 13 students who are ready to explore a career option in the workplace, be it a trade or a field requiring tertiary study. Students will be attached to a workplace where they can gain practical experience of a particular industry and work towards credits and qualifications based on their chosen career pathway.

Description

Gateway is designed to provide all students in Years 11,12 and 13 with the opportunity to investigate career pathways by doing some work experience in that area.

- Gateway is designed to strengthen the pathway for students to progress from school to workplace learning and/or tertiary education.
- Gateway provides students with structured workplace learning across a range of industries and businesses around New Zealand, while they continue to study at school. Each student has an Individual Learning Plan including units based on their chosen career pathway
- Gateway delivers hands on, practical learning that leads to nationally recognized qualifications

Benefits for students on the Gateway programme:

- An opportunity to build skills for employment and working in real workplaces
- An opportunity to try out potential careers and build links to Industry Training Organisations, modern apprenticeships and workplaces
- An opportunity to look at tertiary study options within the chosen career pathway
- Acquisition of credits towards a qualification in chosen career pathway

Gateway involves:

- No cost to students or parents
- A work placement relevant to a student's learning and vocational goal. Students attend once a week
- An individualised learning plan for each student, based on the chosen career pathway
- A high workplace learning content and assessment in the workplace
- Working closely with Industry Training Organisations (ITO) who provide NCEA units in students' chosen career pathway

Pre-requisite: Students are accepted on the Gateway programme following an interview to determine whether they are 'work ready', have a clear career direction or industry of interest and have the motivation to study independently. **Students who are withdrawn from the Gateway programme for not facing up to their responsibilities will be asked for a refund of costs incurred.**

The S.T.A.R. (Secondary Tertiary Alignment Resources) programme allows students to attend short courses (one to five days) in a field associated with a career pathway they are interested in. Courses are advertised in the notices and students are welcome to see Ms Guile to discuss options available. The courses on offer are generally credit bearing.

VOCATIONAL PATHWAYS: The Vocational Pathways option is a way of thinking about possible careers pathways and connecting education and employment. Students elect to study standards that relate to a specific field, i.e. Automotive Engineering or Beauty Therapy. Students will generally study these units through Gateway or the Otago Polytechnic one day a week while the other four days will be at school. Options available in 2023 will include:

* Introduction to Automotive Trades * Introduction to Hospitality * Introduction to Carpentry
* Beauty Therapy/Hairdressing * Police, Forces and Security * Sports and Recreation . All of these will be held on a Friday at the Otago Polytechnic and there are no costs attached. All these courses are NCEA credit bearing, with an average of 26 NCEA credits per course.

* Forestry: this course takes place in Milton on Thursdays and Fridays. Transport to Milton is organised. There is no cost to students. This course is NCEA credit bearing, with an average of 72 credits at levels 2 and 3.

Teacher Contact: Ms Guile

Geography

LEVEL THREE

Credits: 18 - 22

Leads onto: Tertiary Study

Note: It is extremely important that students meet set milestones (normally 2 or 3 for each assessment task), so that they can achieve each standard to the best of their ability.

Geography is a study of the natural environment and the way humans use it. It is both a scientific academic discipline and an arts subject.

The Level Three course consists of two externally assessed papers worth four credits each.

One of these looks at the cultural processes (Tourism Development) that operate in Queenstown, New Zealand. The other external paper looks at Geographic Skills.

The internal component of the course looks at geographic issues, global tourism and the research standard is likely to be based on the Port Chalmers area. The total internally assessed standards will be worth 14 credits which will enable successful candidates to gain University Entrance in the subject before the external examination.

Field Trip: day trip to Port Chalmers and possible two days in Queenstown (cost around \$200)

Pre-requisite: A minimum of two internal assessments achieved from Year 12 Humanities or English.

Teacher Contact: Mr Smith

Humanities

(Geography and History combination)

LEVEL ONE

Assessment: Students will be assessed on individual topics during the year. Depending on student need; one Level 2 History (hist2.1) or Geography (geo2.5) internal NCEA assessment may be offered towards the middle of Term three.

Leads onto: Level Two Geography and History (Humanities).

Note: It is extremely important that students meet set milestones (normally 2 or 3 for each assessment task), so that they can achieve each standard to the best of their ability.

Course Aim

NCEA Level One Humanities course will prepare students for level two Geography and History Achievement Standards.

For History the aim is to help students develop an understanding of historical inquiry and interpretation and is concerned with important social, economic and political issues. The school work is based around topics that:

- Develop an ability to enter imaginatively into events of the past.
 - Further historical understanding of some major trends in New Zealand society and beyond.
 - Develop in students a critical understanding of themselves as New Zealanders and an awareness of New Zealand in the world.
 - Foster an understanding of other peoples, though they may be remote in time and place.
 - Develop skills of historical inquiry and interpretation that allow the student to define a problem and gather, process and present information.
 - Develop student's ability to recall evidence and describe events in detail.
-
- Geography is the study of the environment as the home of humans. It provides students with an understanding both of New Zealand and our place in the world in which we live.

Topics Covered in Year 11 may include:

- Topic in the 20th Century context, with different perspectives.
- Writing and researching for History.
- Understanding a current issues that is important both globally and to New Zealand.
- Geography skills, and field research.

Field Trips: Trip to investigate how Land is used; A History trip to Oamaru or Dunedin.

Pre-requisite: Open Entry.

Teacher Contact: Mr Smith

Humanities

(Geography or History)

LEVEL TWO

Credits: 18-21

Leads onto: Level Three Geography and History.

Note: This course supports essential NCEA literacy and numeracy. It is extremely important that students meet set milestones (normally 2 or 3 for each assessment task), so that they can achieve each standard to the best of their ability.

NCEA Level Two Humanities course will cover a number of Geography and History Achievement Standards. Each individual Student is to select History or Geography. Assessment: Internal 3 or 4 standards; 1 externals; 1 elective external (the essay).

Course Aim

NCEA Level Two Humanities course will cover a number of Geography and History Achievement Standards.

Students select either History or Geography There is one compulsory external (Hist2.3 and Geo2.4 respectively), and an elective essay or study.

Students that wish to do both History and Geography must apply to the department, after having a conversation with the Senior Dean or Deputy Principal.

For History the aim is to help students develop an understanding of historical inquiry and interpretation and is concerned with important social, economic and political issues. The school work is based around topics that:

- Develop an ability to enter imaginatively into events of the past.
- Further historical understanding of some major trends in New Zealand society and beyond.
- Develop in students a critical understanding of themselves as New Zealanders and an awareness of New Zealand in the world.
- Foster an understanding of other peoples, though they may be remote in time and place.
- Develop skills of historical inquiry and interpretation that allow the student to define a problem and gather, process and present information.
- Develop student's ability to recall evidence and describe events in detail.

Geography is the study of the environment as the home of humans. It provides students with an understanding both of New Zealand and our place in the world in which we live. At Year 11 we will undertake a number of internally assessed Achievement Standard as well as one externally assessed standard

Field Trip: Survey trip to Dunedin and or Trip to Oamaru.

Pre-requisite: Requires Level 1 Literacy and Numeracy.

Teacher Contact: Mr Smith

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History

LEVEL THREE

Credits: 25

Leads onto: Tertiary Studies

Note: It is extremely important that students meet set milestones (normally 2 or 3 for each assessment task), so that they can achieve each standard to the best of their ability.

Course Aim

NCEA Level Three (Year 13) History aims at helping students develop an understanding of historical inquiry and interpretation and is concerned with important social, economic and issues of our past. The school work is based around coursework that:

- Develop an ability to enter imaginatively into events of the past.
- Further historical understanding of some major trends.
- Foster an understanding of other peoples, though they may be remote in time and place.
- Further develop skills of historical inquiry and interpretation that allow the student to define a problem and gather, process and present information.
- Develop students' ability to analyse and evaluate evidence and form their own opinions and arguments.

Topics Covered in Year 13 could include:

- A New Zealand Study (3.1 and 3.2)
- World History- turning points in World History (3.4: example: My Lai; Crete; Montgomery bus boycott; etc)
- Industrial Revolution and Technological Revolution

There will be a compulsory school practice examination for the external achievement standards at the end of Term Three.

Pre-requisite: A minimum of two internal assessments achieved from Year 12 Humanities, or English.

Teacher Contact: Mr Smith

Home Economics

Level One

Credits: Possibility of a Level 2 standard from Term 3 onwards.

In Home Economics, students develop an understanding of the factors that influence the well-being of individuals and families within the home and community and of the actions people take to enhance and sustain those environments. In the context of food and nutrition, students evaluate current issues and theories of nutrition, identify and reflect on factors that influence people's choices and behaviours, and use this knowledge to make informed choices. Through the processes of selecting, preparing, cooking, and serving food, students develop their creativity and experience a sense of accomplishment. At the same time they develop personal and interpersonal understandings and skills that contribute to well-being.

This course is based on the following concepts:

Diet and Hauora/Well-being:

- The New Zealand Diet.
- Nutritional Policies.
- Food Choices.

Nutrients in our food and their role(s) in the body:

- Macronutrients - Carbohydrates, Protein and Lipids.
- Micronutrients - Vitamins and Minerals.
- Digestion.

Diet-related Health Conditions:

- Genetic Factors.
- Dietary Factors
- Behaviour Factors.

Food Planning Models:

- Food Planning Guides.
- Healthy Eating - Babies, Toddlers, Children, Adolescents, Adults and Older People.

Food Safety:

- Food Poisoning.
- Meet the Culprits who make you sick.
- Personal Hygiene in the Kitchen.
- The Food Safety Chain - Food Selection to Service.

Course Cost - Nil, however students may choose to bring additional ingredients from home for some practical lessons.

Pre-requisite: None however Year 10 Home Economics is helpful.

Teacher Contact: Miss Kempthorne

Home Economics

LEVEL TWO

Credits: 18

Leads onto: Level Three Home Economics

Description:

Level Two Home Economics is aimed at further developing students' skills, knowledge and understanding of food, nutrition and the importance of making healthy food choices for individuals and families well-being. During the year students will carry out a number of Achievement Standards. Each achievement standard has a focusing concept that is covered in detail and then assessed. By the end of the year it is expected that students will have been able to complete a number of the following Achievement Standards:

- Analyse issues related to the provision of food for people with specific food needs
- Analyse the relationship between well-being, food choices and determinants of health
- Evaluate sustainable food related practices
- Analyse practices to enhance well-being used in care provision in the community
- Evaluate health promoting strategies designed to address a nutritional need

Two Achievement Standards will be internally assessed and worth 5 credits each. Two Achievement Standards will be externally assessed (an end of year examination) and worth 4 credits each.

Brief Course Outline:

This course is made up of a number of Level Two Achievement Standards that students will be assessed on using student work books.

Pre-requisite: NCEA Level 1 Home Economics.

Teacher Contact: Miss Kempthorne

Home Economics

LEVEL THREE

Credits: 18

Description:

Level Three Home Economics is aimed at further developing students skills, knowledge and understanding of food, nutrition and the importance of making healthy food choices for individuals and families well-being. During the year students will carry out a number of achievement standards. Each achievement standard has a focusing concept that is covered in detail and then assessed. By the end of the year it is expected that students will have been able to complete a number of the following Achievement Standards:

- Investigate a nutritional issue affecting the well-being of New Zealand society ● Implement an action plan to address a nutritional issue affecting the well-being of New Zealand society
- Analyse a food related ethical dilemma for New Zealand society
- Investigate the influence of multinational food corporations on eating patterns in New Zealand ● Evaluate conflicting nutritional information relevant to well-being in New Zealand society ● Analyse the influences of food advertising on well-being

Two Achievement Standards will be internally assessed and worth 5 credits each. Two Achievement Standards will be externally assessed (an end of year examination) and worth 4 credits each.

Brief Course Outline:

This course is made up of a number of Level Three Achievement Standards that students will be assessed on.

Leads onto: Polytechnic or University. (University approved subject)

Pre-requisite: NCEA Level Two Home Economics.

Teacher Contact: Miss Kempthorne

Mathematics I

LEVEL ONE

Leads onto: Level Two Mathematics

This Level One course in mathematics is an academic course preparing students for the study of mathematics in Levels Two and Three. Students will need high-level skills in comprehension, analysis, literacy, numeracy, graphing and algebra to achieve success. Students aiming for University or Polytechnic courses in maths, science, social science or engineering should aim for success in this course.

This Course includes developing students understanding of Trigonometry, Number, Statistics, Measurement and Algebra.

Pre-requisite: Passed US32406 (Numeracy test) or have an exemption from HOD of Mathematics.

Requirements: A Casio Graphics calculator is highly recommended.

Teacher Contact: Mr Adamson.

Mathematics II

LEVEL ONE

Credits: 10 Numeracy Credits

Leads onto: Level One Mathematics I

A general Level of study in mathematics for students who find mathematics challenging and aim to gain Level One Numeracy.

This course is internally assessed and focuses on developing everyday mathematical skills used in the general workplace and at home. The Numeracy Unit Standards are included to ensure all students attain the NCEA Level One requirement of 10 numeracy credits.

Pre-requisite: Open Entry (For students who did not sit US32406)

Requirements: A scientific calculator.

Teacher Contact: Mr Adamson

Mathematics

LEVEL TWO

Credits: 14

Leads onto: Level Three Mathematics with Calculus and Statistics

This course is an academic course with the aim to prepare students for the study of mathematics at Level Three and beyond. Students aiming for University or Polytechnic courses in Mathematics, Science, Social Science or Engineering should aim for success in this course.

Students will need good algebraic skills to achieve success in this course.

This Course includes standards on Trigonometry, Sequences, Coordinate Geometry, Networks and Calculus. There are four internally assessed standards and one externally assessed standard with a total of 14 credits being available.

Pre-requisite: 10 Credits in Level One Mathematics.

Requirements: A Graphics calculator.

Teacher Contact: Mr Adamson

Mathematics with Calculus and Statistics

LEVEL THREE

Credits: 16

Leads onto: Tertiary Study

The aim of this course is to prepare students to study mathematics beyond the secondary Level at Polytechnic or University. Students aiming for University or Polytechnic courses involving Mathematics, Science and/or Engineering should aim for success in this course. Calculus and Statistics has many applications and is a requirement for many tertiary courses.

This Course includes standards in Algebra, Graphing, Bivariate Data and Calculus with three internally assessed standards and one externally assessed standard with a total of 16 credits being available.

Pre-requisite: 9 Credits in Level Two Mathematics.

Requirements: A graphics calculator is required eg Casio fx9750 G II.

Teacher Contact: Mr Adamson

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Music

LEVEL ONE

Credits: 4 credits at Level Two

Leads onto: Level 2 Music

Course description

The Music course enables you to develop knowledge and understanding of music in past and present contexts. You will recognise music's contribution to, and significance in, contemporary culture. You will experiment with the elements of music and discover structural devices for shaping sound into music. You will draw on your developing knowledge to compose and arrange. You will develop fluency, musicianship, and technical control as you rehearse and present individual and group performances.

Course of Study

The Level One Music course develops the skills of

- Solo performance
- Group performance
- Score reading
- Music works (a study of two works from different contexts and/or genres)

Course extension opportunities

- Composition
- Aural music skills

Pre-requisite: While the Year 9 and 10 Music courses are a valuable preparation for NCEA Level One Music, if you are competent on an instrument or in voice, and have developed a competent level of general musicianship you may elect to make a direct entry into the Level One course after consultation with the Head of Music.

Co-requisite

You must commit to continued tuition on your chosen instrument(s) or voice for the entire year to take this course. This does not need to be through school, and could be via local or online providers.

Teacher Contact: Mr Cummings

Music

LEVEL TWO

Credits: 18 - 21

Leads onto: Level Three Music

This course will most likely be delivered through a distance education format.

Course of Study

The Level Two Music course builds on the skills developed at Level One.

A selection from the following are studied:

Making Music

- Solo performance
- Group performance
- Composition/ Score reading
- Music Studies
- Instrumentation
- Materials and processes used in music
- Music works (study of two main works, including a comparison of these contrasting works, one of which will be a New Zealand work)
- Investigation

Pre-requisite: This course is suitable if you have successfully completed NCEA Level One Music. To be able to do this course with success you need to have achieved a minimum of four Level One Music Achievement Standards, one achieved with Merit.

Co-requisite

You must commit to continued tuition on your chosen instrument(s) or voice for the entire year to take this course.

Teacher Contact: Mr Cummings

Music

LEVEL THREE

Credits: 20 - 24

Leads onto: Level Three Music

Course of Study

The Level Three Music course builds on the skills developed at Levels One and Two, allowing for the specialisation of areas of strength.

A selection of topics from the following are studied:

Making Music -

- Solo performance
- Group performance
- Composition

Music Studies

- Harmonic techniques and analysis
- Research and presentation of a music topic
- Materials and processes used in music
- Comparing and contrasting music works
- Examining contexts that influence the expressive qualities of the music
- Arranging

Pre-requisite: This course is suitable for students who have completed NCEA Level Two Music. To be able to do this course with success you need to have achieved a minimum of five Level Two Music Achievement Standards, one achieved with Merit.

Co-requisite

You must commit to continued tuition on your chosen instrument(s) or voice for the entire year to take this course.

Teacher Contact: Mr Cummings

Outdoor Education

LEVEL TWO/THREE

Credits: 12+

Leads onto: This is a two-year course. Activities will be different in 2025.

Students will be able to sit this course if they are doing level 2 or 3. The credits will be mainly at level 3. This is a very challenging but rewarding subject. Activities include two tramping trips and a mountain biking trip. Students will start the year looking at ABL activities and then prepare for an overnight tramp in the local area. Term Two is looking at safety management and mountain biking skills, with a trip away to Nasby or Dunedin. Term Three they will participate in a multi-day tramp in the outdoors and evaluate their participation.

trip Costs: Approximately \$400 for the tramps and extra fundraising can be done.

Pre-requisite: No pre-requisite

Note: There are both inside and outside activities on this course and a basic level of fitness is required.

Teacher Contact: Mr Adamson

Physical Education

LEVEL ONE

Leads onto: Level Two Physical Education

Level One Physical Education is an academic subject which will have a ratio of two theories and two practical lessons approximately throughout the year, but has a significant written component. Students will experience a range of physical activities and will develop theoretical knowledge to improve their personal performance. Students will benefit from a sound knowledge base of anatomy and basic biomechanical principles which will be applied to selected practical activities. You need to be motivated, enthused and complete work in your own time to be successful. This is a very challenging but rewarding subject.

Costs: Approximately \$250 for a variety of sports cost throughout the year including surfing, paddle boarding, waka ama and sailing. A proportion of this cost will be fundraised by the students through the year.

Prerequisite: At least an Achieved grade for Anatomy and Biomechanics in Year 9/10

Physical Education. **Teacher Contact:** Mr Herewini

Physical Education

LEVEL TWO

Credits: 20

Leads onto: Level Three Physical Education

Level Two Physical Education is an academic subject which will have a ratio of two theories and two practical lessons. It will cover a variety of different individual and team physical activities. Students will experience a range of scenarios where knowledge of physical education can be applied whilst improving their performance in different physical activities. Student's knowledge of biomechanics and anatomy will be increased and built on from previous years. You need to be motivated, enthusiastic and complete work in your own time to be successful. This is a very challenging but rewarding subject.

Costs: Approximately \$800 for Year 12 ski trip.

Pre-requisite: Students need eight credits in Literacy from English and 14 Credits in Level One Physical Education including AS:90963.

Note: There is a lot of reading and writing in this Course. Any student who didn't complete Level One Physical Education will need permission from the HoD.

Teacher Contact: Mr Herewini

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Physical Education

Level: THREE

Credits: 20

Leads onto: Tertiary Physical Education

Level Three Physical Education is an academic subject which will have a ratio of three theory and one practical lesson approximately throughout the year. Students will experience a range of real life scenarios where knowledge of physical education can be applied. You need to be motivated and enthused and **complete work in your own time** to be successful. It is envisaged that students have completed a full Level One- Two course.

Costs: Approximately \$800 for ski/snowboarding trip.

Prerequisite Some literacy writing credits from Level Two English at the discretion of the HoD Physical Education and 12 Credits in Level Two Physical Education including AS:91328 (2.2) .

Note: Any student who didn't complete Level Two Physical Education will need permission from the HoD. **Teacher Contact:** Mr Herewini

Physics

LEVEL TWO

Credits: 16 (6 external, 10 internal)

Leads onto: Level Three Physics

Level Two Physics is the study of the physical world around us. Studying Physics also enables you to develop a valuable set of transferable skills which include problem solving, ability to think logically, planning and organisational skills.

Course Content

- Mechanics
- Practical investigation in Physics
- Atomic and Nuclear Physics
- Selected Context (research)

Course Costs: Nil

Physics is required for many science study at Tertiary level (e.g. health sciences such as radiography, medicine, agriculture, all types of engineering) and can lead to careers in areas such as teaching, architecture, telecommunication/software engineers, financial investment analyst and industries such as mining, forestry and electrical sector.

Pre-requisite: You need 10 Level 1 Mathematics credits and good algebra and number skills as Mathematics is the language of Physics or with the approval of HOD Science

Teacher Contact: Dr McIntyre

Physics

LEVEL THREE

Credits: 14 (4 external and 10 internal)

Leads onto: Tertiary Study

Physics is the study of the physical world around us and Level Three Physics builds on the concepts learnt in Level 2 Physics. While studying Physics enables you to develop a valuable set of transferable skills which include problem solving, ability to think logically, planning and organisational skills.

Course of Study

- Modern Physics
- Practical Investigation in Physics
- Wave Systems
 - Selected Context (research)

Course Costs: Nil

Physics is required for many science study at Tertiary level (e.g. health sciences such as radiography, medicine, agriculture, all types of engineering) and can lead to careers in areas such as teaching, architecture, telecommunication/software engineers, financial investment analyst and industries such as mining, forestry and electrical sector.

Level 3 Physics is an approved University Entrance (UE) subject. Science is also an approved UE subject and the 14 credits can come from a combination of Level 3 Biology and Chemistry and Physics standards.

Pre-requisite: 7 Level Two Physics credits or with approval by HOD Science.

Teacher Contact: Dr McIntyre

Science

LEVEL ONE

Credits: 4 credits (maximum). One Level Two standard (a practical investigation) from Term 3

Leads onto: Level 2 Biology, Chemistry and Physics

Science is a way of investigating, understanding, and explaining the natural and physical world. The aim of the Level 1 Science course is to develop an understanding of some of the “big ideas” in science and develop learners’ ability to make connections between the science taught in class and the real world.

Level 1 Science includes Biology, Chemistry, and Physics topics. The course will include lots of “hands on” learning opportunities where you will gain practical skills and knowledge. You will carry out scientific investigations using a variety of approaches; fair testing (scientific method), classifying and identifying, pattern seeking, investigating models, and making things.

The course will better prepare you for Level 2 in 2025, as it provides you with a solid platform of knowledge and skills for Year 12 Science subjects (Biology, Chemistry, and Physics). It also gives you the scientific literacy skills needed to better understand the Science you encounter in your everyday life.

The Level 1 Science course covers the following topics:

- Living World (Biology)
 - Genetic variation and Evolution
 - Microorganisms
 - Cell Processes

- Material world (Chemistry)
 - Atoms, elements, and compounds
 - Chemical Reactions
 - Acids and bases

- Physical world (Physics)
 - Mechanics
 - Electricity
 - Electromagnetic radiation (light)

Course costs: Nil

Prerequisite: Open entry

Teacher contact: Dr McIntyre

Agriculture Science

LEVEL ONE

Farm cadets/vocational pathway, kura units with Ag focus.

We are part of a tight-knit farming community, and many of our students already possess valuable skills, knowledge, and a genuine passion for farming. It's crucial that we recognize and nurture these talents, offering them opportunities to grow within this sector. Our ultimate goal is to prepare our students to meet the employment needs of our community.

At East Otago High School, we are committed to providing a diverse range of Vocational Pathways. This ensures that our students thrive in the school environment, empowering them to make well-informed choices regarding their career paths. This, in turn, equips them for a successful transition from school to the workplace or further education.

Our mission is to offer our farming community the chance to actively contribute to students' development, helping them acquire the essential skills and knowledge needed for employment in the Primary Industries, whether locally or in wider areas. We are dedicated to providing students with qualifications endorsed by local farm owners and workers, validating their readiness for meaningful careers in the farming sector.

Level 2 Primary ITO's

Teacher Contact: Mr Walker

Agriculture Science

LEVEL TWO

Credits: 20 (with a range of internal and external Achievement standards)

Science with Agriculture is an alternative course to Level Two Science. It is based around the theoretical and practical aspects of Agriculture with a scientific focus. The course aims to equip students with the foundational knowledge required for a career in Agriculture.

Course of Study

- Agricultural or Horticultural Practical Investigation
- Plant Production
- Livestock Production
- Primary Production and the Environment
- Landscape Design

Costs Nil

Teacher Contact: Dr McIntyre or Mr Walker