

Takapuna Grammar School



Senior Course Information Guide

Contents

- 1 [Introduction](#)
- 2 [Planning Your Course](#)
- 3 [Qualifications Pathway](#)
- 4 [National Certificate of Education Achievement \(NCEA\) Overview](#)
- 6 [International Baccalaureate \(IB\) Overview](#)
- 7 [Senior NCEA Curriculum Guide](#)
- 8 [NZQA Scholarship Exams](#)
- 9 [NCEA Level 1 Overview](#)
- 10 [NCEA Level 1 Subject Information](#)
- 11 [NCEA Level 2 Overview](#)
- 12 [NCEA Level 2 Subject Information](#)
- 13 [NCEA Level 3 Overview](#)
- 14 [NCEA Level 3 Subject Information](#)
- 15 [Tertiary Study Requirements](#)
- 16 [Required & Recommended Subjects – Tertiary & Trades](#)

Please click on the contents title to take you directly to the relevant page.

Introduction

The 'Takapuna Grammar School Senior Course Information Guide' is designed to provide information for students and parents on the range of subject choices and qualifications pathways available in Years 11, 12 and 13 at Takapuna Grammar School.

We offer a wide variety of courses from all learning areas of the New Zealand Curriculum. Students are encouraged to study a broad range of subjects to enhance the opportunities available to them in the future.

The 'NCEA Senior Curriculum Guide' and 'International Baccalaureate Information Booklet' provide further information on the pathways in each of these qualifications.

Please note:

- The subject information provided in this book is accurate at the time of print. However, ongoing NCEA reviews may result in future changes to some courses.
- All courses offered in this booklet are subject to a minimum number of students selecting the course and the availability of appropriate teaching staff.
- Subjects may have additional requirements not listed in their course information.

Planning Your Course

It is important that students make a planned and informed choice of subjects. To do this we suggest our students read through this guide carefully and consider the following:

- The subjects you enjoy and are passionate about
- Your skills and abilities
- Possible future career interests
- Entrance criteria for Tertiary Education

The Careers and Tertiary Information at the back of the Guide contains important information for life after school. The 'Senior NCEA Curriculum Guide' will help you plan your subject pathway throughout the senior school.

Further information about each subject can be found in the [Learning section](#) of the Takapuna Grammar School website.

If you have any questions or want advice on your subject selections please, in the first instance, speak to your Whanau Form Teacher, Deans or our Careers Department.

Qualifications Pathway

Takapuna Grammar School purposefully offers a choice of qualifications to stimulate diversity and enhance the individuality of our students. The International Baccalaureate (IB) Diploma Programme and the National Certificate of Education Achievement (NCEA), are both highly acclaimed qualification pathways.

In 2013, Takapuna Grammar School became the first public school in New Zealand to offer the IB Diploma programme. Our students are part of a global educational community of over 5000 IB World Schools in 153 Countries.

NCEA is the national qualification for senior secondary school students in New Zealand.

At Year 12, students choose to either continue with NCEA or begin the two year IB Diploma. Students are encouraged to select the qualification pathway that best suits their aspirations and personality.

National Certificate of Educational Achievement Overview

New Zealand's National Certificates of Educational Achievement (NCEA) are national qualifications for senior secondary school students. NCEA is the most common qualification for secondary students in New Zealand.

Students can complete two types of standards:

Achievement Standards - New Zealand Curriculum based

In each subject, skills and knowledge are assessed against a number of standards. A range of internal and external assessments are used to measure how well students meet these standards. External assessments are completed during the New Zealand Qualifications Authority national examinations at the end of the year.

Students can be awarded the following grades for an Achievement standard:

Excellence (E) - The student has achieved the standard with Excellence

Merit (M) - The student has achieved the standard with Merit

Achieved (A) - The student has met the required standard

Not Achieved (N) - The student has not met the required standard

Unit Standards - Competency based

These are internally assessed standards which also contribute to a student's overall NCEA

Students can be awarded the following grades for a Unit standard:

Achieved (A) - The student has met the required standard

Not Achieved (N) - The student has not met the required standard

The majority of standards used at Takapuna Grammar School are Achievement Standards. A typical course would include four to five standards totalling between 16-20 credits.

NCEA Credits

Each successful assessment earns credits that contribute to a certificate at either Level 1, 2 or 3.

| NCEA Level | Requirements |
|-------------------|---|
| Level 1 | 60 credits are required at any level (level 1, 2 or 3) including the Literacy and Numeracy co-requisite |
| Level 2 | 60 credits at level 2 or above. + 20 credits from any level including those achieved in Level 1. |
| Level 3 | 60 credits at level 3 or above. + 20 credits from level 2 or above. |

Multi-level Study

Depending on a student's ability, they may study a mix of standards at different levels. For example, a Year 11 student may study four subjects at Level 1 and advance two subjects at Level 2. In addition, students may study multi-level courses with standards assessed at more than one level e.g. a Physics course at Level 1 may contain both Level 1 and Level 2 standards.

There is an application and approval process in place for students who wish to study a subject/s a year ahead. Further information will be provided to students around the time of subject selection.

Recognising High Achievement

When students perform consistently above the 'Achieved' level their result(s) can be 'endorsed' to reflect that high achievement. This can occur at either the Certificate or Individual Course level.

Endorsements are recorded on a student's Record of Achievement.

Certificate Endorsement

For an NCEA certificate to be endorsed with Excellence a student must gain 50 credits at Excellence at the level of the certificate or above. Likewise, if a student gains 50 credits at Merit (or Merit and Excellence) at Level 1 their NCEA Level 1 certificate may be endorsed with Merit.

Course Endorsement

Students will gain an endorsement for a course if, in a single school year, they achieve:

- 14 or more credits at Merit or Excellence level, and
- 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 as in these subjects you can achieve an endorsement with internally assessed standards.

International Baccalaureate Overview

The International Baccalaureate Diploma Programme is an academically rigorous and balanced programme of study that awards students University Entrance.

The IB Diploma Programme:

- Provides a curriculum that balances subject breadth and depth, and considers the nature of knowledge across disciplines through the unique Theory of Knowledge course.
- Encourages International-mindedness in IB students, starting with a foundation in their own language, culture and society.
- Fosters a positive attitude to learning that prepares students for university education.
- Has gained a reputation for its rigorous assessment, making this a qualification welcomed by universities worldwide.
- Emphasises the development of the whole student - physically, intellectually, emotionally and ethically.
- Promotes open-mindedness and the attitudes necessary for students to respect and evaluate a range of points of view.

The curriculum is made up of six academic subjects and three core components: Theory of Knowledge (TOK), Creativity, Action and Service (CAS) and the Extended Essay (EE).

Students are required to choose one subject from each of the six academic areas (Language and Literature, Foreign Languages, Social Sciences, Science, Mathematics, and the Creative Arts).

Three subjects are taken at higher level (HL), and three are taken at standard level (SL). Subjects at higher level are studied in greater depth and breadth than at standard level.

Further information can be found in the [IB Student Handbook](#).

Senior NCEA Curriculum Guide

| Learning Area | Year 11 - NCEA Level 1 | Year 12 - NCEA Level 2 | Year 13 - NCEA Level 3 |
|--------------------------------------|--|---|--|
| | 6 subjects – With approval students may choose subjects across 2 levels. A course of: English, Mathematics, Science & 3 options | 6 subjects - With approval students may choose subjects across 2 levels A course of: English & 5 options | 5 subjects * Subjects are not University Approved |
| Arts | Visual Art Digital Art | Painting Design Photography Art History | Painting Design Photography Art History |
| | Dance Drama Music | Dance Drama Music Musical Theatre | Dance Drama Music |
| English | English English Literacy English Language Support (unit standard course) English for Academic Purposes Media Studies | English English Literacy English for Academic Purposes Media Studies | English English Internal Media Studies |
| Health and Physical Education | Health Education Physical Education | Health Education Physical Education Physical Education and Health (combined) | Health Education Physical Education Physical Education and Health (combined) |
| Languages | Chinese French Japanese Spanish Te Reo Māori | Chinese French Japanese Spanish Te Reo Māori | Chinese French Japanese Spanish Te Reo Māori |
| Mathematics and Statistics | Mathematics | Mathematics Extension Mathematics and Calculus Mathematics and Statistics | Mathematics and Calculus Mathematics and Statistics Mathematics |
| Science | Biology Chemistry Physics General Science | Biology Chemistry Physics General Science | Biology Chemistry Physics |

| | | | |
|--|--|--|--|
| Social Sciences | Geography History | Geography History Classical Studies Tourism (unit standard course) | Geography History Classical Studies Tourism *+ (unit standard course) |
| Business & Enterprise | Economics and Accounting Combined Business Studies | Accounting Economics Business Studies GST Agribusiness | Accounting Economics Business Studies + Agribusiness + |
| Technology | Building and Construction (unit standard course) Product Design Computer Science Food and Nutrition Spatial Design Textile Design | Building and Construction (unit standard course) Product Design Computer Science Hospitality (unit standard course) Spatial Design Textile Design | Building and Construction *+ (unit standard course) Product Design Computer Science Hospitality *+ (unit standard course) Spatial Design Textile Design |
| <i>Students in Year's 12 and 13 may study a subject/s at Scholarship level. Subjects not offered at Scholarship level are indicated with a + symbol.</i> | | | |

Note: At the end of Year 11 students will choose to follow the NCEA or International Baccalaureate pathway.

NZQA Scholarship Exams

At Takapuna Grammar School, we encourage our academically capable students in Year 12 and 13, to complete the New Zealand Scholarship Examinations. Subjects which offer Scholarship all offer stimulating programmes for our students. These programmes require additional commitment and attendance at workshops. Participation in Scholarship programmes prepare students for the more demanding courses at University, and students benefit from the personal satisfaction gained from working towards a new challenge.

New Zealand Scholarship is designed to challenge, motivate and reward the most able students - assessments are demanding, even for the top students in each subject. Candidates are expected to demonstrate high-level critical thinking and to be able to apply knowledge, skills and understanding to complex situations.

For most subjects, assessment is by a three hour written examination at the end of the school year. In some subjects students submit recorded performances or portfolios for assessment by external assessors.

NZQA's intention is that 3% of the total number of Year 13 students in the country sitting Level 3 in each of the available subjects will be awarded a Scholarship, provided Scholarship standards are met. Approximately 0.3% receive Outstanding Scholarships.

Students gain substantial monetary awards if they successfully achieve a Scholarship. A scholarship in one subject receives \$500, as a single payment, when the student begins studying at a New Zealand University. Further information on monetary rewards can be found in the following table.

| |
|--|
| Premier Award |
| For the very top 7-12 candidates. The minimum requirement to be considered for this award is achievement of at least three Scholarships at 'Outstanding' level in the same year. Premier Award winners can receive \$10,000 each year for up to three years. |
| Outstanding Scholar Award |
| For the next 40-60 candidates. The minimum eligibility requirement is achievement of three Scholarships including at least two at 'Outstanding' level in the same year, or more than three Scholarships including at least one at 'Outstanding' level in the same year. Outstanding Scholar Award winners can receive \$5,000 each year for up to three years. |
| Scholarship Award |
| For candidates who achieve NZ Scholarship in three or more subjects in the same year and for candidates who achieve two Scholarships at 'Outstanding' level in the same year. Scholarship Award winners can receive \$2,000 each year for up to three years. |
| Top Subject Scholar Award |
| For the top candidate in each one of the New Zealand Scholarship subjects. Top Subject Award winners can receive \$2,000 each year for up to three years. |
| Single Subject Awards |
| For candidates who achieve New Zealand Scholarship in one or more subjects. Single Subject Award winners receive a 'one off' award of \$500 per subject, for up to two subjects, (maximum payment \$1000). |

Students interested in studying at Scholarship level should speak to their subject teacher. Please contact a Deputy Principal for more information.

NCEA Level 1 Overview

Level 1 of the National Certificate of Educational Achievement (NCEA) is the national qualification for all Year 11 Students.

In Year 11 all Takapuna Grammar School students study six subjects. This includes three compulsory subjects (English, Mathematics and a Science) and three selected subjects. Students are encouraged to choose a broad range of subjects across the New Zealand Curriculum learning areas. Students may choose a maximum of two science subjects from Biology, Chemistry, Physics. The General Science course is not designed to be studied alongside any of the other Sciences.

Students in Year 11 may, where appropriate, select subjects from our Level 2 NCEA curriculum. Multi-leveilling subjects will extend a student academically and provide them with the opportunity to study a wider range of subjects throughout their NCEA qualification. Students must apply and receive approval to study a subject a year ahead. A maximum of three subjects can be applied for.

Year 11 subjects consist of a number of Achievement or Unit Standards which award students with a set number of credits if they reach the required level. Students are assessed on the Achievement standard internally, by common tasks given by their teachers, or externally, by exams or tasks set nationally. All unit standards are assessed internally.

To be awarded NCEA Level 1, students must achieve 60 credits. In addition to this students must gain the Literacy and Numeracy co-requisite.

The Takapuna Grammar Senior Curriculum document highlights the pathways for our NCEA subjects.

NCEA Level 1 Subject Information

Biology

Qualification: Level 1

Introduction: Biology is the study of life where ākongā develop an understanding of the variation, continuity, and interconnectedness of life. Coupled with technology, it provides fascinating avenues for research into the treatment of disease, exploring and deepening their understanding of genealogy, managing our natural ecosystems and understanding how our bodies work.

Course Outline: Level 1 Biology covers fundamental aspects of genetic variation in relation to an identified characteristic and understanding a life process of bees and how it is managed in a primary production system. It also includes an investigation into Flowering Plants and Mammals as a Consumer. The course is a mixture of external & internal credits.

Additional Requirements: Students will be required to purchase the relevant Biology SciPAD, an A4 exercise workbook and pay for a subscription to Education Perfect.

Contact: Ms P. Opperman

Building and Construction

Qualification: Level 1

Introduction: A broad introduction to Building and Construction that offers hands-on learning experiences and knowledge of building and allied trade courses. The focus is on developing practical skills and knowledge in construction and related trades. A range of practical projects are undertaken to develop these skills.

Course Outline: Industry based skills and techniques in construction. Experience in workshop organisation, management of time and resources, material properties, creativity and problem solving, are applicable to all aspects of building and engineering. Safety is an essential assessment element of all units. Continuation on the course is dependent upon applying appropriate safety procedures. The course offers Unit Standards (both practical and theory based) which are gained by producing a variety of articles with both hand and machine tools to specified tolerances.

Additional Requirements: The course will involve a fee for materials.

Contact: Mr S. Kelly

Business Studies

Qualification: Level 1

Introduction: Introduction to the world of business and developing valuable understanding of how businesses operate within the New Zealand economy. Students will understand how businesses position their goods and services in the marketplace. The key concepts of Enterprise, Citizenship and Sustainability will be explored. Business Studies is a valuable addition to a general course of study and provides a foundation of knowledge and understanding required for further study at Level 2 and 3.

Additional Requirements: Students are required to purchase a workbook.

Contact: Ms E. Johnson

Chemistry

Qualification: Level 1

Introduction: Chemistry provides ākonga with an understanding of the material world. This includes the underlying structure and properties of substances, how and why substances interact with each other and how we can make use of them. An understanding of Chemistry is essential to understanding how everyday chemicals are affecting us and our world. Chemistry leads on to a wide range of occupations such as doctor, nurse, winemaker, psychiatrist, engineer and pharmacist.

Course Outline: Level 1 Chemistry includes aspects of carbon chemistry, such as where fuels come from and how plastics are made; a practical investigation into the rate of a chemical reaction; understanding of different types of chemical reactions and where they occur; as well as relating chemical structure to the uses of a range of chemical substances. The course is a mixture of external and internal credits.

Additional Requirements: Students will be required to purchase the relevant Chemistry SciPAD, an A4 exercise workbook and pay for a subscription to Education Perfect.

Contact: Dr D. Tonei

Chinese

Qualification: Level 1

Introduction: Gain a unique insight into the culture of one of the world's oldest civilisations. You will develop an understanding of people and culture and engage with Chinese communities in New Zealand in order to bridge cultural differences. Proficient speakers of Chinese will find jobs in a variety of fields, as many New Zealand organisations have links and relationships with China.

Course Outline: Develop four language learning skills of listening, speaking, writing and reading. Students use Chinese in a variety of contexts to communicate in topics that reflect their daily life and interests such as family, school, free time and travel.

Additional Requirements: Prior learning to have success in Level 1 Chinese. Students who speak Chinese as a heritage language will be considered. This is a language acquisition course and is not designed for native speakers.

Contact: Ms M. Huang

Computer Science

Qualification: Level 1

Introduction: This subject is about developing an understanding of computer science principles which govern how computers work, learning core programming concepts and designing quality, fit-for-purpose digital outcomes, such as websites, databases and applications. The main focus is on creating code that is syntactically correct, efficient and achieves the purpose of the outcome for a specified audience.

Course Outline: This course provides opportunity for students to expand their knowledge in computer science concepts and further develop basic skills in coding in a variety of digital outcomes that build on work done in 10DGT. For students new to the subject, step-by-step instructions are provided to teach coding elements and syntax. To succeed in this subject, students are able to identify a need for a digital outcome, research current industry standards or trends, design, create and test a fit-for-purpose outcome.

Additional Requirements: Computer Science is recommended for any student with logical thinking and problem solving skills. Students are required to bring their own laptop (tablets, ipads, chromebooks, etc are not suitable). Windows 10 or Apple macOS 10.10+, 2+GHz processor, 8GB RAM, 40GB of available hard disk space, Screen size 13", Battery 5 hours +, Wifi capable, USB Port/dongle

Contact: Ms M. Cameron

Dance

Qualification: Level 1

Introduction: Dance is expressive movement in which students integrate thinking, moving, and feeling. They explore and use the language of dance to express personal, group, and cultural identities and interpret artistic ideas. Students develop literacy in dance and respond to a variety of genres. They develop skills in performing and choreographing.

Course Outline: Students study dance technique, choreography and the history of a dance genre. Dance techniques studied can include Contemporary, Hip Hop, Bollywood, Musical Theatre and Jazz. Students will demonstrate an understanding of the technique and style of these genres through a series of dances learnt and performed in class. Group ensemble skills and performance will be assessed at a large scale Dance Show. Students will have two choreography assessments to demonstrate their understanding of how to construct effective movement sequences and use the elements of dance. For the external exam, students will study the history, technique and performances of a dance genre.

Additional Requirements: Students are recommended to have studied Year 10 Dance or have dance experience. The course will involve a fee for the Dance show.

Contact: Mr J. Lobaton

Digital Art

Qualification: Level 1

Introduction: This is a hands-on course, which promotes the understanding and development of digital skills and techniques relevant to photography and design practice. Students will develop ideas and create outcomes for Photography and Design briefs using digital cameras, the Adobe Suite and Wacom tablets. Students will use the work of contemporary photographers and designers to inform the creation and development of their ideas. This course cannot be taken with Level 1 Visual Art.

Course Outline: Use drawing conventions to develop work in more than one field of practice; Produce a body of work informed by established practice, which develops ideas across a range of media; Produce a finished work that demonstrates skills appropriate to cultural conventions.

Additional Requirements: The Level 1 course builds upon Year 10 Art. The Level 1 course prepares students for the three Art courses offered at Level 2: Photography, Design, and Paint or the IB Diploma programme in Year 12.

Contact: Mr F. Potter

Drama

Qualification: Level 1

Introduction: Drama explores human experience through theatre works and other drama-creating activities. Working individually and collaboratively students learn to organise their ideas into dramatic performance capturing imagination, thoughts, and feelings through the use of body language and vocal expression. As students perform and respond to different forms of drama and theatre they learn deeper appreciation of their rich cultural heritage and values. Courses lead to NCEA scholarship, university entrance and tertiary-level theatre studies and drama schools.

Course Outline: Students learn the features of Commedia, and how to perform this classic improvised comedic theatre working in a group and costuming their characters. Students act in scripted theatre roles and devise their own pieces based on a theme. An exam about theatre they have seen completes the year.

Additional Requirements: Students would be better prepared for this course if they studied Drama in Year 10. The course will involve a fee for Theatre visits.

Contact: Mr B. De Grut

Economics and Accounting

Qualification: Level 1

Introduction: This course will introduce the students to the concepts of Accounting and Economics. Accounting is the foundation for financial literacy for both individuals and business, Accounting is the language of business. It is the backbone of all businesses and is therefore a very broad subject. Economics is about how stakeholders organise the resources available to satisfy their needs and wants. This combined subject provides a foundation for careers in accounting, business, government, finance and insurance, information technology, law, management and marketing. Economics and Accounting Combined provides a foundation of knowledge and understanding required for further study at Level 2 and 3.

Course Outline: Students will learn to prepare financial reports and to understand demand, supply and market concepts. Students taking this course can continue with Level 2 Accounting and/or Level 2 Economics. This course covers a wide range of topics and students will develop skills in communication, numeracy information and problem solving.

Additional Requirements: Students are required to purchase a workbook

Contact: Mr. L Videler

English

Qualification: Level 1

Introduction: English is the study of people, psychology, and how we express concepts through language. It also encourages a growing awareness of how we ourselves interpret texts. It is a creative subject, but also involves theory and considerable practical application. Level 1 continues to develop our understanding of how we make and interpret meaning through a range of texts and contexts, which encompasses past established and important 'voices' in our subject, as well as those who are more contemporary. We study novels, poetry and short texts, film and tv, spoken language and presentation, podcasts, vlogs, documentaries, journalism and online articles in a way that encourages students' appreciation of how individuals and groups make, share and respond to texts.

Course Outline: The component parts of English are reading/interpreting, writing/producing and presenting, and the Level 1 course integrates these skills continually throughout the year. All stages of our learning in English incorporate our own writing and production of text as a way of continuing to develop and shape our own style and expression. Through accessing a broad range of texts and text types - including ones close to home - students will explore different perspectives and attitudes, develop an understanding of other peoples, cultures and mindsets, and appreciate the craft and expertise that are central to high quality and effective texts. Students will constantly work to develop their own ideas and meaning, and to progress their own understanding and 'voice' through interpretation, text production and presentation.

Additional Requirements:

Contact: Mr T. Flinn

English for Academic Purposes

Qualification: Level 1

Introduction: EAP 1 is the study of Level 1 English for students who have English as their second language. It is designed to increase academic language, through the four skills of reading, writing, speaking and listening. The course is designed so students can develop the skills required to move onto Level 2 English for Academic Purposes.

Course Outline: Students will study and learn to write academic essays on both a novel and film. They will also read and respond to a range of texts. Assessment is on-going and students have time to develop skills leading to assessment as they master those skills.

Additional Requirements: The ability to understand and respond to academic English, and to express ideas and information in written form.

Contact: Mr H. McLaughlin

English Language Support

Qualification: Level 1

Introduction: ESL X provides language support for ESOL students. Basic literacy skills are developed through cross-curricular topics to help students access their mainstream subjects. There is a focus on increasing vocabulary, writing, reading and communicative skills.

Course Outline: Students will study and learn a variety of topics with particular focus being on developing their written and reading comprehension skills. The course is designed to prepare students for the academic language and necessary writing skills to study at EAP 1.

Additional Requirements:

Contact: Mr H. McLaughlin

Food and Nutrition

Qualification: Level 1

Introduction: Food and Nutrition is about the interconnection between physical, mental, emotional, social and spiritual dimensions of people's lives. Students will explore Māori and Pacific knowledge bases, values and practices related to food, hauora and well-being in a creative practical context.

Course Outline: Students will develop an understanding of current issues related to food, safety, nutrition and health and learn how a range of factors influence well-being. There is a strong practical component in group and individual learning in each unit of work. Students will learn about what contributes to healthy eating and develop strategies to strengthen their sense of identity and self-worth. The course provides opportunities for students to show initiative and independence in their own learning.

Additional Requirements:

Contact: Mrs R. Close

French

Qualification: Level 1

Introduction: Learning a language provides insights into cultures ways of thinking and expressing ideas which improve intercultural understanding. As they learn a language, students discover new ways of learning, new ways of knowing, and more about their own capabilities. French is a major international language, widely spoken in Canada, Africa, the Middle East, Asia, the Caribbean and Oceania. It is used for large organisations such as the United Nations, the Olympic Games and provides access to powerful literature. French language skills are highly sought after and are an advantage for a diverse range of careers.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students use French in a variety of contexts to communicate beyond the immediate context in topics that reflect their daily life and interests such as family, school, free time and travel.

Additional Requirements: Students need to have studied French at Year 10 or have prior learning. Students who speak French as a heritage language will also be considered. This is a language acquisition course and is not designed for native speakers.

Contact: Ms D. Benadie

General Science

Qualification: Level 1

Introduction: General Science course weaves together learning from the living world, physical world and material world. Through all of these strands, students will develop ways of thinking and ways of working in science, and in particular, Biology, Physics and Chemistry. Science involves generating and testing ideas and gathering evidence to understand, explain, and develop knowledge about the natural world. Scientists do this by making observations, carrying out investigations, making predictions, using analytical and problem solving, and by communicating these ideas through multiple ways. Students will have to think logically and critically, while explaining their ideas in a structured, meaningful way to align with scientific principles.

Course Outline: Students will demonstrate understanding of energy and how energy is used as a tool to understand changes in a physical system, relate laboratory chemistry and classroom learning to aspects of chemistry in the environment, and the home. Students will show how tracking genetic variation provides a useful tool to show connections between living things. The course will provide insight into Physics, Chemistry and Biology and provide students with an adequate foundation to pursue a Level 2 specialist science, if they wish to. The course is a mixture of external and internal credits.

Additional Requirements: Students will be required to purchase the relevant Science SciPad, an A4 exercise workbook and subscription to Education Perfect.

Contact: Mr M. Naidoo

Geography

Qualification: Level 1

Introduction: Geography is the study of earth as the home of people and explores interactions between both natural and cultural environments. Geography is unique in that it is not defined by one particular topic. Instead Geography's scope encompasses many different topics such as people, politics, settlements, geology, plants and much more.

Geography students will learn to apply skills, assess information and evaluate people's values to understand current contemporary issues and global studies. It is a highly relevant discipline that seeks to understand and solve important issues facing the world we live in.

Course Outline: The Level 1 Geography course is designed to give students understanding of change, place, processes, patterns, sustainability and perspectives. During the year we will cover natural processes causing changes to te taiao (environments), an investigation into tropical rainforests, issues of sustainability within the Pacific, urban studies, research on the use of Auckland's waterfront and population studies. Throughout the course, we will also be learning how to apply and utilise geographic information systems.

Geography has an optional bi annual trip to Hawaii to learn about geographic processes in an overseas setting.

The next trip this Year 11 cohort will be eligible for will be in 2026.

Additional Requirements: A fee for the overnight field trip to Tarawera environment & day trip to Wynyard Quarter.

Contact: Miss B. Sladen

Health

Qualification: Level 1

Introduction: Level 1 Health students are introduced to the issues that impact an individual and others health and well-being. Students will explore Māori and Pacific knowledge bases, values and practices related to Hauora and wellbeing. They will examine health-related situations from a personal, interpersonal and societal perspective.

Course Outline: The Level 1 course provides students with the opportunity to investigate current adolescent health issues in New Zealand society. Students will develop an understanding of what influences healthy relationships and wellbeing. They will develop strategies to support their sense of identity and self worth. Students will investigate how well-being can change and look to strategies which can support an individual during times of change.

Additional Requirements:

Contact: Ms Rachel McDowell

History

Qualification: Level 1

Introduction: History explores people and places and their connections with one another in the past. It encompasses how power has shifted and how people have interacted and engaged with it. History also covers how identity is formed and shaped and how this affects historical narratives. These narratives are not fixed, but change over time and as perspectives change. History can be seen through multiple lenses, such as Māori, Pasifika and Western perspectives. These changes happen when we hear different voices through Primary sources.

Course Outline: Level 1 focuses on War and Peace. Introducing students to the key concepts, through the context of Medieval and Early Modern Warfare. We then study the First World War, including the causes of the war, the significance of trench warfare and the peace process at the end of the war. This then leads us into the attempts at peace during the inter-war years, the failure of the League of Nations and the rise of Hitler and the Nazi Party. We will also consider the impact of The Second World War on New Zealanders. Finally, we study key flashpoints during the Cold War and how global war was avoided. This then will take us to the present day and how conflict and attempts at peace have impacted the current geopolitical climate, such as the relationship between the USA and China and the Russian invasion of Ukraine.

Additional Requirements:

Contact: Miss T. Curtis

Japanese

Qualification: Level 1

Introduction: Learning a language provides insights into cultures and ways of thinking and expressing ideas which improve intercultural understanding. As they learn a language, students discover new ways of learning, new ways of knowing, and more about their own capabilities. Learning Japanese enables students to learn about and understand a very different culture from New Zealand. Skills in Japanese are highly sought after by the many businesses in New Zealand which have relationships with Japanese companies. Knowledge of Japanese language and culture is an advantage for a diverse range of careers.

Course Outline: Develops the four language learning skills of listening, speaking, writing and reading. Students use Japanese in a variety of contexts to communicate beyond the immediate context in topics that reflect their daily life and interests such as family, school, free time and travel.

Additional Requirements: Studied Japanese at Year 10 or have prior learning. Students who speak Japanese as a heritage language will also be considered. This is a language acquisition course and is not designed for native speakers. An optional trip to Japan.

Contact: Mrs P. Kent

Mathematics

Qualification: Level 1

Introduction: This course incorporates both elements of mathematics and statistics, and is designed to give students knowledge across a broad range of areas to enable them to progress into Level 2. Students will use mathematics to be able to think critically about the world and have reasoning skills to do so. Statistics is growing in popularity and is widely used in many fields such as medical research, insurance, and business forecasting. The use of statistical models is becoming more prevalent and this course gives students opportunities to see how this is relevant in areas beyond school.

Course Outline: Students will have the opportunity to cover foundational topics of mathematics that lead into higher concepts at Level 2. Topics that are covered will include, Number, Measurement, Right-Angled Triangles, Algebra and Graphs. Furthermore students will also prepare a statistical report and will learn to analyse Bivariate Data, Multivariate Data, Time Series Data and Probability giving them a wide range of skills to move through NCEA Statistics.

Additional Requirements: Students are required to purchase a workbook

Contact: Mr D. Alarcon

Media Studies

Qualification: Level 1

Introduction: Media Studies introduces students to the issues, concerns, values and skills involved in consuming and producing a broad range of media products. We develop the tools to analyse the effects of mass-media interactions and build essential knowledge to think critically about information and communication in the modern world.

Course Outline: Media Studies offers students the opportunity to demonstrate skills in both text analysis and practical media production. Students close-read media products and regulations, examining their implications for industry and society through written tasks. Students also produce their own media product, drawing on an understanding of generic media forms to design and produce an impactful and effective video product. Students learn the fundamentals of shooting and editing high quality video with a focus on genre conventions.

Additional Requirements:

Contact: Mr. S Lilly

Music

Qualification: Level 1

Introduction: Music is a fundamental and precious human expression. Students explore the question “What is Music” through composition, solo and collaborative performance and the study of music history to find their individual voices in music. We value the musical heritages of New Zealand’s diverse cultures. Students progress through increasingly higher levels of understanding and skill development toward scholarship and tertiary study.

Course Outline: Students will analyse two substantial pieces of music from different time periods of music history and use this knowledge to compose two original songs. Study of music theory and aural skills will be incorporated into the course materials. Students will also perform alone and with a group.

Additional Requirements: It is recommended that students have played an instrument for two years prior to this course.

Contact: Ms L. Raby

Physical Education

Qualification: Level 1

Introduction: This NCEA course incorporates both practical and theoretical components of physical activity, and is structured to encourage broad curriculum coverage for all ākonga. Students will participate in a range of practical activities, as well as develop an insight into a wide range of sporting contexts, anatomy and physiology concepts. These topics will allow students to identify movement contexts, establish movement benefits to Hauora, and provide diverse ways of participating in physical activity.

Course Outline: Students will have the opportunity to participate in a wide range of physical activities, including Tennis, Ki o rahi and an Aquathon. Students will learn to understand and identify why movement strategies are an important factor in their own performance. They will demonstrate an understanding of how teamwork is promoted in movement through application of strategies and examine influences on movement in both Aotearoa and the Pacific. Students will participate in a wide range of sports and modified games where they will have the opportunity to choose their own individualised focus points and areas. The Level 1 programme caters for all skill and experience levels where students learn in, through and about movement.

Additional Requirements: Takapuna Beach Series - Aquathon fee (optional).

Contact: Mr J. Ross

Physics

Qualification: Level 1

Introduction: Physics provides the scientific basis for our understanding of many aspects of science and technology. It is a versatile field leading to careers in engineering, health sciences, digital technology, trades, environmental sciences, architecture and more. Physics requires students to think clearly, logically and solve problems when confronted with unfamiliar situations. It is recommended that students selecting Physics are comfortable with communicating in both written and mathematical explanations. Students are expected to have a good grasp of algebra, trigonometry, and graphing, and to have done well in both Force/Motion and Electricity in Year 10 Science.

Course Outline: Level 1 Physics covers the fundamentals of Mechanics, Electricity, Magnetism, Waves and Atomic and Nuclear Physics. There is a combination of external and internal credits and practical work is a key component of this course.

Additional Requirements: Students will be required to pay a subscription to Education Perfect, the online learning tool used in Science.

Contact: Miss B. de Kwant

Product Design

Qualification: Level 1

Introduction: Product Design is a creative subject where students learn how to design and manufacture products, working with various materials, components, tools and equipment. Students use a range of traditional and modern manufacturing processes, including Laser Cutting, CAD, 3D printing and CNC using timber and plastics. They record their design process and practical work evidence in an online portfolio and are assessed on technological processes, functional modelling and finished products. All units of work lead to a tangible outcome: a product, system or environment, allowing students to develop a range of solutions.

Course Outline: This course provides opportunities for students to show initiative and independence for their own learning. It builds on students' existing knowledge, skills, values and aspirations. Encouraging risk taking, lateral thinking, creativity and critical thinking, technology units often require students to work collaboratively and cooperatively. Students develop their outcomes using a range of resistant materials (e.g. wood, metal, plastics), and can work with technologies such as laser cutting, CNC routing, basic electronics and robotics. Design projects include secret storage, creating a lighting product and/or creating a programmable robot.

Additional Requirements: The course will involve a fee for materials.

Contact: Mr S. Kelly

Spanish

Qualification: Level 1

Introduction: Spanish is the second most spoken language in the world. Learning Level 1 Spanish enables students to communicate in a variety of situations and contexts and to develop international-mindedness. Language learning allows students to learn how to be outside their cultural 'comfort zone' and to develop positive attitudes to difference. Speaking Spanish is a skill that will benefit students in their future careers in a connected and global world.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students use Spanish in a variety of contexts to communicate beyond the immediate context in topics that reflect their daily life and interests such as school, free time and holidays.

Additional Requirements: Students need to have studied Spanish at Year 10 or have prior learning to have success in Level 1 Spanish. Students who speak Spanish as a heritage language will also be considered.

Contact: Mr J. Chapman

Spatial Design (formerly Design and Visual Communication)

Qualification: Level 1

Introduction: Spatial Design is the exploring, progressing and visual communicating of students' own three dimensional design ideas. The subject's Curriculum Big Ideas encompass design's purpose of improving people's lives through divergent and convergent design thinking that utilises spatial and product design knowledge and visual literacy, with an emerging designer voice. Spatial Design focuses on the designing of spaces with future pathways including Architecture, Art and Design, though design thinking and creative problem solving.

Course Outline: This course provides a foundation in design thinking and visual literacy in the context of three-dimensional design. Throughout the course, students will undertake two design projects. In the first project, students develop their skills and understanding in the fundamentals of design practice and its heritage and influences. For the second project, students build on their design practice and visual literacy that explains their narrative of thinking. Good project management remains key to success in Spatial Design.

Additional Requirements: Laptop is recommended (minimum specs: Windows 7 or Apple macOS 10.10+; 1.6GHz; 4GB RAM; 40GB Storage). Specialist Spatial Design stationary will be required including a Visual Diary.

Contact: Mr M. Samaeli

Te Reo Māori

Qualification: Level 1

Introduction: Ko taku reo taku ohooho, ko taku reo taku mapihi mauria - Language is the window to the soul.

Learning Te Reo Māori enables our students to learn about and understand the indigenous culture of Aotearoa and provides them with the opportunity to communicate and understand language used throughout our country. Skills in Te Reo Māori are highly useful in many sectors of New Zealand and becoming internationally respected in more and more areas. Knowledge of Te Reo Māori and culture is an advantage for a diverse range of careers and a deeper understanding and appreciation of history and culture.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students use Te Reo Māori in a variety of contexts to communicate beyond the immediate context in topics that reflect their daily life and interests such as family, school, free time and travel.

Additional Requirements: Students need to have studied Te Reo Māori at Year 10 or have prior learning to have success in Level 1.

Contact: Whaea T. Peters

Textiles Design (formerly Soft Materials)

Qualification: Level 1

Introduction: Textiles Design involves a rich variety of learning experiences leading to a wide range of career opportunities. These may include but are not limited to: fashion designer, pattern maker, cutter, stylist, buyer, retail management, sample machinist, interior designer, soft furnishings maker, product developer/designer, C.A.D. machine technician, event management, fashion journalist, knitwear designer, sail maker, textile designer, smart textile development for medical use, costume designer, wardrobe assistant.

Course Outline: The increased emphasis on creativity and individual choice provided by the flexibility of design briefs that enable a course to be designed which meets the needs of student. The courses include design briefs based on authentic and thought provoking situations. Student will be expected to seek innovative, individual and sometimes group solutions in a variety of ways with a range of material mediums. Studying technology in this context develops understanding, sharpens perceptions of design and creates awareness of the environment and of society's needs.

Additional Requirements: The course will involve a fee for materials.

Contact: Ms D. Woodward

Visual Art

Qualification: Level 1

Introduction: Level 1 Art is a practical course where students are taught art-making skills in drawing, painting, printmaking and a few aspects of photography. Emphasis is on developing and challenging the creative thinking process and students are encouraged to generate a range of responses to visual and conceptual problems. The work of a wide variety of artists is used to inspire students and help them develop their own personal approach.

Course Outline: Demonstrate understanding of artworks from cultural contexts using art terminology; Use drawing methods for recording information using wet and dry media; Use drawing conventions to develop work in more than one field of practice; Produce a body of work informed by established practice, which develops ideas, using a range of media.

Additional Requirements: The Level 1 course builds upon Year 10 Art and prepares students for the three Art courses offered at Level 2: Photography, Design, and Paint or the IB Diploma programme in Year 12.

Contact: Mr F. Potter

NCEA Level 2 Overview

In Year 12 all Takapuna Grammar School students choose to either continue with NCEA or begin the two year IB Diploma. Students are encouraged to make an informed decision and select the pathway which suits them.

Further information on the IB Diploma Programme can be found [here](#); IB subject information can be accessed [here](#). Further information can be found on the [IB section](#) of the website.

In a Year 12 NCEA course, all students will study six subjects. This includes a compulsory course of English, and five selected subjects. Students are encouraged to follow the curriculum pathways they created for themselves in their previous year's study. Students may choose a maximum of two science subjects from Biology, Chemistry, and/or Physics.

Students in Year 12 may, where appropriate, select subjects from our Level 3 NCEA curriculum. Multi-levelling subjects will extend a student academically and provide them with the opportunity to study a wide range of subjects throughout their NCEA qualification. Students must apply and receive approval to study a subject a year ahead. A maximum of three subjects can be applied for.

To be awarded NCEA Level 2, students must achieve a total of 80 credits. 60 credits must be from Level 2 or above while an additional 20 credits may be achieved from any level (including level 1).

Students in Year 12 may also choose to complete the New Zealand Scholarship Examinations.

The Takapuna Grammar Senior Curriculum document highlights the pathways for our NCEA subjects.

NCEA Level 2 Subject Information

Accounting

Qualification: Level 2

Introduction: Being the foundation for financial literacy for both individuals and business, Accounting is the language of business. It is the backbone of all businesses and is therefore a very broad subject. Accounting at Level 2 is an important subject for anyone who is contemplating running their own business and understanding business related issues. Students who can think logically, have a good work ethic and want to succeed should enjoy the challenge of this subject. It provides a solid basis for any future study in the field of business. Any student thinking of a career in business and/or enrolling at a university for a business degree should seriously consider this subject.

Course Outline: Level 2 Accounting aims to promote knowledge and understanding of accounting as a financial language for trading and service businesses, apply financial and non-financial knowledge and skills to practical situations. Students are provided with opportunities to use accounting software to process business transactions.

Additional Requirements: Students are required to purchase a workbook.

Contact: Mr L. Videler

Agribusiness

Qualification: Level 2

Introduction: This course is designed to introduce the business concepts, skills and knowledge that are aligned with New Zealand primary industries. Agribusiness is about how primary industry develop goods and services to satisfy customers and how the sector is influenced by current cultural, ethical, environmental, political, scientific, and economic conditions. Issues such as sustainability, future proofing, innovation and globalisation are central to the study of Agribusiness. The subject integrates primary industries and businesses beyond the farm gate such as agriculture, aquaculture, dairy manufacturing, equine, forestry, horticulture, seafood and sports turf.

Course Outline: Course material is based around Agribusiness and Business Studies achievement standards. Teaching and learning falls under four strands: Science and Technology, Innovation, Management and Finance and Marketing. Students explore how and why agribusinesses in New Zealand make operational decisions in response to internal and external factors.

Additional Requirements: Field trips to primary industry locations may be arranged at an additional cost.

Contact: Ms E. Johnson and Mr L. Videler

Art Design

Qualification: Level 2

Introduction: Art Design promotes the understanding and development of fundamental skills and techniques relevant to the communication of design ideas, in two and three dimensions. Students learn to use the Adobe suite, including Photoshop and Illustrator. They develop an understanding of layout, typography and image manipulation through the study of contemporary designers.

Course Outline: Demonstrate an understanding of methods and ideas from established practice appropriate to design; Use drawing methods to apply knowledge of conventions appropriate to design ; Develop ideas in a related series of drawings appropriate to established design practice

Additional Requirements: Students are required to purchase Adobe suite through school.

Contact: Ms L.Sew Hoy

Art History

Qualification: Level 2

Introduction: Art History is the study of the visual arts in civilization. It examines changing values in all fields of visual culture, including painting, sculpture, design, photography, architecture and forms of popular expression. Art History integrates research and knowledge, develops critical thinking and emphasises visual as well as verbal and written literacy. Study in Art History is complementary to other subjects such as History and Classics and does not need to be taken in conjunction with Practical Art. It is a valuable subject for visual art students and is especially beneficial to those students interested in studying Art, Design or Architecture at a tertiary level.

Course Outline: Art History covers the following topic: 19th Century French Art: towards modernism; Examine the effects of formal elements of art works; Examine the meanings conveyed by art works; Examine the influence of context(s) on art works; Examine how media is used to create effects in art works; Demonstrate understanding of art works in relation to their physical environments.

Additional Requirements:

Contact: Ms S. Sampson

Biology

Qualification: Level 2

Introduction: Biology is the study of life. Coupled with technology, it provides fascinating avenues for research into the treatment of disease, improvements in agriculture, managing our natural ecosystems and understanding how our bodies work. It is recommended that students selecting Level 2 Biology have gained a minimum of 14 credits in Level 1 Science or Biology including Science 1.9 – Genetic Variation.

Course Outline: Level 2 Biology covers fundamental aspects of Cell Biology, Genetics and Gene Expression. It also includes an investigation into a local ecological community as well as a practical investigation into a cell process. The course is a mixture of external and internal credits.

Additional Requirements: Students will be required to purchase a Biology workbook.

Contact: Mrs P. Opperman

Building and Construction

Qualification: Level 2

Introduction: Building and Construction offers hands-on learning experiences and knowledge of building and allied trade courses. The focus is on developing practical skills and knowledge in construction and related trades. A range of practical projects are undertaken to develop these skills. Careers in Furniture, Building, Construction and Allied trades.

Course Outline: This course relates directly to industry based skills and techniques in construction. Experience in general workshop organisation, management of time and resources, material properties, creativity and problem solving, are applicable to all aspects of building and engineering. Safety is an essential assessment element of all units. Continuation on the course is dependent upon applying appropriate safety procedures. The course offers Level 2 Unit Standards (both practical and theory based) which are gained by producing a variety of articles with both hand and machine tools to specified tolerances.

Additional Requirements: Material fees

Contact: Mr S. Kelly

Business Studies

Qualification: Level 2

Introduction: This subject about how individuals and groups of people organise, plan and develop goods and services to satisfy customers. The knowledge and skills gained provide exposure to an enterprise culture, which can help shape 'creative, energetic, and enterprising' young people who will contribute to New Zealand's economic future and community well being. Business Studies is a valuable addition to a general course of study, and a desirable component for any tertiary business oriented course.

Course Outline: Students develop their understanding of business theory and practices applying these to a range of relevant contexts. Students will experience at first hand the setting up and running of a community well-being business project, as well as studying a large national business. Students gain knowledge, skills and experience to explore the operational decisions a business makes in response to external factors. An understanding of the key concepts of Enterprise, Citizenship, Sustainability and Globalisation are developed along with practising their own skills of organisation, time management, responsibility, problem-solving, decision making and communication within a group work environment.

Additional Requirements: It is an advantage for students to have studied Level 1 Business Studies however not essential if they are actively interested in the world of business. Students are required to purchase a workbook.

Contact: Ms E. Johnson

Chemistry

Qualification: Level 2

Introduction: Chemistry provides students with an understanding of the material world. This includes the underlying structure and properties of substances, how and why substances interact with each other and how we can make use of them. Chemistry leads on to a wide range of occupations such as doctor, nurse, winemaker, psychiatrist, engineer and pharmacist. It is recommended that students selecting Level 2 Chemistry have gained a minimum of 14 credits in Level 1 Science or Chemistry including Science 1.5 - Acids and Bases.

Course Outline: Level 2 Chemistry includes Structure and Bonding, Organic Chemistry, Reduction/Oxidation and Chemical Reactivity. There is a combination of external and internal credits and practical work is a key component of this course.

Additional Requirements: Students will be required to purchase a Chemistry workbook

Contact: Dr D. Tonei

Chinese

Qualification: Level 2

Introduction: By learning Chinese, you will gain unique insights into the culture of one of the world's oldest civilisations. You will also gain an understanding of people and culture and engage with Chinese communities in New Zealand in order to bridge cultural differences. Proficient speakers of Chinese will find jobs in a variety of fields as many New Zealand organisations have links and relationships with China.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students begin to engage in sustained interactions and produce increasingly extended texts. They explore the views of others, develop and share personal perspectives and justify support or challenge ideas and opinions.

Additional Requirements: Students need to have studied Chinese at Level 1 or have prior learning to have success in Level 2 Chinese. Students who speak Chinese as a heritage language will also be considered. Please note that this is a language acquisition course and is not designed for native speakers

Contact: Ms M. Huang

Classical Studies

Qualification: Level 2

Introduction: The study of the people, places, and events of the classical world and how they influence the modern world. Classical Studies is an interdisciplinary subject: students engage with literature, languages, art, history, science, technology, religion, and philosophy. Students explore community, cultural identity, values, and perspectives and think critically about human behaviour and relationships to appreciate the civilisations of ancient Greece and Rome, understand the past and the present, and to imagine possible futures.

Course Outline: Students look at the world of Ancient Greece including Greek Art and Architecture. From the gods on Mt Olympus, The Battle of Salamis to Athens' Acropolis and Parthenon to Homer's Odyssey. All of these topics are examined in order to understand Greek culture, religion and everyday life.

The bi annual Classics Trip will be restarted again as of 2025. We look forward to being able to offer this once in a lifetime experience to our students. To be able to experience Italy and Greece in person brings to life everything we learn about in the classroom.

Additional Requirements: A strong command of reading and writing, students are expected to critically evaluate sources of information, write with confidence and formulate opinions.

Contact: Mr J. Scott

Computer Science

Qualification: Level 2

Introduction: Computer Science is about developing an understanding of computer science principles which govern how computers work, learning core programming concepts and designing quality, fit-for-purpose digital outcomes, such as websites, databases and applications. The main focus is on creating code that is syntactically correct, efficient and achieves the purpose of the outcome for a specified audience.

Course Outline: This course requires students to experiment with more advanced code and structures, and to research and apply industry conventions and computer concepts. Students produce work within authentic contexts relevant to themselves, within an iterative development process where the initial outcome is gradually designed, created and tested as more functionality is applied. The outcome must comply with established conventions and successfully pass validation procedures and testing. Students are able to discuss their development process and demonstrate knowledge of a computer science concept.

Additional Requirements: Completion of L1 CMP recommended. Students are required to bring their own laptop (tablets, ipads, chromebooks, etc are not suitable). Windows 10 or Apple macOS 10.10+, 2+GHz processor, 8GB RAM, 40GB hard disk space, 13" screen, Battery 5 hours +, Wifi capable, USB Port/dongle

Contact: Ms M. Cameron

Dance

Qualification: Level 2

Introduction: Dance is expressive movement in which students integrate thinking, moving, and feeling. Students explore and use the language of dance to express personal, group, and cultural identities and interpret artistic ideas. Students develop literacy in dance and respond to a variety of genres. Dance is a scholarship subject and approved for entry to tertiary courses.

Course Outline: Students study dance technique, performance and choreography. Two group dances will be assessed at a large scale Dance Show. They will choreograph both solo and group dance works to demonstrate an understanding of how to convey ideas effectively through movement by using a variety of techniques and processes. The external exam requires them to provide a written interpretation of a dance performance studied in class.

Additional Requirements: Students are recommended to have studied Year 11 Dance or have previous dance and choreography experience. The course will involve a fee for the Dance show.

Contact: Mr J. Lobaton

Drama

Qualification: Level 2

Introduction: Drama explores human experience through theatre works and other drama-creating activities. Working individually and collaboratively students learn to organise their ideas into dramatic performance capturing imagination, thoughts, and feelings through the use of body language and vocal expression. As students perform and respond to different forms of drama and theatre they learn deeper appreciation of their rich cultural heritage and values. Courses lead to NCEA scholarship, university entrance and tertiary-level theatre studies and drama schools.

Course Outline: Students study different theatre genres and choose to perform part of a play using acting techniques. They devise their own pieces drawn from a theme such as popular genres and act a role in a scripted play. An exam about a theatre work they have seen completes the year.

Additional Requirements: Students would be better prepared for this course if they studied Drama the preceding year. The course will involve a fee for Theatre visits.

Contact: Mr B. De Grut

Economics

Qualification: Level 2

Introduction: This course enables students to become "economically literate" and to understand the economic issues which affect our economic well being and standard of living. Students will define and measure these economic issues as well as understand their causes and possible effects while at the same time developing an awareness of policies that a government may implement to address them. Students will recognise and understand the interdependent nature of the economy by examining the impact of government policies on various groups and gain an increased awareness of the current economic environment in New Zealand.

Course Outline: We take a detailed look at the nature and impact of unemployment, inflation and economic growth on the New Zealand economy and the government policies required to achieve the macroeconomic goals of full employment, low inflation and positive economic growth.

Additional Requirements:

Contact: Mrs R. Branks

English

Qualification: Level 2

Introduction: Level 2 English is the analytical study of a range of literature and film. It is a compulsory course, designed so students can develop the skills required to move on to Level 3 English and Scholarship. There is also a focus on meeting the literacy requirements for University Entrance. Personal reading of a wide range of text types is also encouraged.

Course Outline: Courses may vary depending on the students' and/or the teacher's choice of texts. In general, students will produce a portfolio of writing, close view and analyse film, develop their close reading of unfamiliar texts and their literary essay writing.

Additional Requirements:

Contact: Mrs C. King

English Literacy

Qualification: Level 2

Introduction: This is a complete Level 2 English course where students analyse a range of literature and film. It is designed for students who have completed the Level 1 ENL course, or for those who may need extra time and support to meet the Level 2 standard. There is a focus on students gaining the literacy requirements for University Entrance. Students are placed into this course in collaboration with their previous year's teacher and the Head of Faculty. A student's pathway from this course is into 13 ENI.

Course Outline: This course may vary depending on the students' and/or the teacher's choice of texts. In general, students will closely analyse a film, produce a portfolio of writing research and form conclusions on a topic of their choice and develop literary essay writing.

Contact: Mrs C. King

English for Academic Purposes

Qualification: Level 2

Introduction: EAP 2 is the study of Level 2 English for students who have English as their second language. It is designed to increase academic language, through the four skills of reading, writing, speaking and listening. This course builds upon skills learnt in EAP 1. This course enables students to gain the Level 2 Literacy Credits required to enter a New Zealand University.

Course Outline: Students will study and learn to write academic essays on both a novel and film. They will also read and respond to a range of texts, and produce a portfolio of writing. Assessment is on-going and students have time to develop skills leading to assessment as they master those skills.

Additional Requirements: Successful completion of EAP 1 or a Level 1 English course.

Contact: Mrs P. Kent

French

Qualification: Level 2

Introduction: Learning a language provides insights into cultures and ways of thinking and expressing ideas which improve intercultural understanding. As they learn a language, students discover new ways of learning, new ways of knowing, and more about their own capabilities. French is a major international language, widely spoken in Canada, Africa, the Middle East, Asia, the Caribbean and Oceania. It is used for large organisations such as the United Nations, the Olympic Games and provides access to powerful literature. French language skills are highly sought after and are an advantage for a diverse range of careers.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students begin to engage in sustained interactions and produce increasingly extended texts. They explore the views of others, develop and share personal perspectives and justify support or challenge ideas and opinions.

Additional Requirements: Students need to have studied French at Level 1 or have prior learning to have success in Level 2 French. Students who speak French as a heritage language will also be considered.

Contact: Ms D. Benadie

General Science

Qualification: Level 2

Introduction: Science and technology influence our lives in many ways and engaging in everyday issues necessitates a sound understanding of Science. The Level 2 Science course is designed for students who do not wish to continue with a specialist Science (Biology, Chemistry or Physics) but have an interest in Science.

Course Outline: The Level 2 Science course covers aspects of Biology, Horticulture and Chemistry. It is assessed internally and practical work is a key component of this course.

Additional Requirements: It is recommended that students have gained at least 12 credits in any Level 1 Science standards.

Contact: Mr M. Naidoo

Geography

Qualification: Level 2

Introduction: Geography is the study of earth as the home of people and explores interactions between both natural and cultural environments. Geography is unique in that it is not defined by one particular topic. Instead Geography's scope encompasses many different topics such as people, politics, settlements, geology, plants and much more.

Geography students will learn to apply skills, assess information and evaluate people's values to understand current contemporary issues and global studies. It is a highly relevant discipline that seeks to understand and solve important issues facing the world we live in.

Course Outline: The Level 2 Geography course is designed to give students understanding of change, place, processes, patterns, sustainability and perspectives. During the year we will investigate the natural processes that occur at Tongariro Volcanic Centre and use this context to complete our geographic research in the field. We will track the development of London's population growth over time and investigate issues around the global pattern of megacities. We will cover differences in development examining reasons for differing standards of living across the United States of America.

Geography has an optional bi annual trip to Hawaii to learn about geographic processes in an overseas setting. The next trip will be in 2024.

Additional Requirements: A fee for the three night field trip to Tongariro Volcanic Centre.

Contact: Miss B. Sladen

Health

Qualification: Level 2

Introduction: In the NCEA Level 2 course students will develop a critical understanding about health issues and situations that impact well-being for individuals, their relationships with others and the wider society. Students will learn how to analyse current adolescent health issues and look at their impact on New Zealand society. Students will also examine adolescent health and will consider the influences, consequences and strategies to enhance well-being.

Course Outline: The topics covered in the Level 2 Health programme will be related to mental health and resiliency, gender and sexuality, health promotion within the community and drug related health issues.

Additional Requirements:

Contact: Ms R. McDowell

History

Qualification: Level 2

Introduction: History is the study of people, events and societies from the past and how they influence the modern world. Students will conduct their own research into historical issues, engage with a range of primary and secondary source material and consider the impacts on historical events upon New Zealand. Through doing this, students will develop a range of skills in academic writing and research, analysis and critical thinking.

Course Outline: History at Level 2 considers racism and intolerance, and the ways in which minority groups have been affected by historical events. We begin by studying the Black Civil Rights Movement in the USA. Students study a range of topics, before choosing one to complete a personal research project in. There are opportunities to draw comparisons between the USA in the 1960s and current events. We then consider the Dawn Raids in the 1970s and early 1980s, and their impact on New Zealand, and the Polynesian community. Finally, we study the Wannsee Conference and the impact of the Final Solution on the Jewish community.

Additional Requirements: History requires a strong command of reading and writing, as students are expected to critically evaluate sources of information, write with confidence and formulate opinions.

Contact: Miss T. Curtis

Hospitality

Qualification: Level 2

Introduction: Hospitality offers a rich variety of learning experiences and knowledge of the food and beverage service industry. The subject's focus is on developing practical skills that can deliver high quality products in a time efficient and collaborative team environment. A passion for working with food can offer many career choices. Careers in food preparation, food and culinary arts, event management, food photography, food writers, teaching, food and health science, food truck owner, cafe/restaurant worker/owner.

Course Outline: This course builds on an understanding of the food and beverage service in the Hospitality Industry. The course will give students a good grounding in both theory and practical aspects in both kitchen and restaurant work. Students will also study a range of cultures and their methods and style of cookery.

Additional Requirements:

Contact: Ms M. Hyland

Japanese

Qualification: Level 2

Introduction: Learning a language provides insights into cultures and ways of thinking and expressing ideas which improve intercultural understanding. Students discover new ways of learning, new ways of knowing, and more about their own capabilities. Learning Japanese enables students to learn about and understand a very different culture from New Zealand and provides them with the opportunity to communicate with Japanese people in their own language. Skills in Japanese are highly sought after by the many businesses which have relationships with Japanese companies and are an advantage for a diverse range of careers.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students begin to engage in sustained interactions and produce increasingly extended texts. They explore the views of others, develop and share personal perspectives and justify support or challenge ideas and opinions.

Additional Requirements: Students need to have studied Japanese at Level 1, or have prior learning to have success in Level 2. Students who speak Japanese as a heritage language will also be considered. Please note that this is a language acquisition course and is not designed for native speakers

Contact: Mrs P. Kent

Mathematics and Calculus

Qualification: Level 2

Introduction: Mathematics is incredibly important in our lives and, without realising it, we use mathematical concepts, as well as the skills we learn from doing maths problems every day. It helps us to think logically and to have better reasoning abilities. Mathematics leads on to a wide range of occupations such as engineers, scientist, actuary, technology technician.

Course Outline: The L2MAC course includes Graphs, Trigonometry, Algebra and Calculus. There is a combination of external and internal credits. This course leads to L3MAC and L3MAT.

Additional Requirements: Students will be required to purchase a graphics calculator, workbooks and pay a subscription to Education Perfect. This course is recommended to the students who completed the L1MAC course with success.

Contact: Mr K. Hu

Mathematics and Statistics

Qualification: Level 2

Introduction: This course develops students' ability to analyse a wide range of quantitative information of both a Statistical and Mathematical nature. It is suitable for any student who enjoyed Number and Statistics more than Algebra at Level 1 NCEA and who would like to pursue Mathematics and Statistics at level 3 (L3MAS or L3MAT) and beyond.

Course Outline: The L2MAS course includes the areas of knowledge of Probability, Coordinate geometry, Non-right angle Trigonometry, Experimental design and Statistical inference.

Additional Requirements: A laptop and graphical calculator is required and will be used on a regular basis. Students will be required to purchase a workbooks for each topic and pay a subscription to Education Perfect, the online learning tool used in Mathematics. This course is recommended to the students who completed the L1MAS or L1MAC course with success.

Contact: Mr D. Menzies

Mathematics Extension

Qualification: Level 2

Introduction: This course is designed to introduce students to Calculus which is the branch of Mathematics which explores variables. Mathematics is incredibly important in our lives and, without realising it, we use mathematical concepts, as well as the skills we learn from doing maths problems every day. It helps us think logically and have better reasoning abilities. Mathematics leads on to a wide range of occupations such as engineers, scientist, actuary, technology technician. It is recommended that students selecting L2MAX have gained at least merit in Level 1 Algebra and Level 2 Graphs.

Course Outline: The L2MAX course includes the three Level 3 externals: Algebra, Calculus, Probability and two Level 3 internals about Conic Sections and Systems of Equations. This course leads to both L3MAC and L3MAS as well as Scholarship Calculus and Scholarship Statistics.

Additional Requirements: Students will be required to purchase a graphics calculator, workbooks for each topic and pay a subscription to Education Perfect, the online learning tool used in Mathematics. It is recommended that students selecting L2MAX have a particular interest in Algebra and Graphs.

Contact: Mr K. Hu

Media

Qualification: Level 2

Introduction: Level 2 Media Studies focuses on ideas around ethics and representations in the media. The course is ideally suited to students who enjoy critical thinking and deconstruction of issues in media products and services. The course features theoretical and practical components.

Course Outline: The Level 2 Media course builds upon the skills and concepts introduced at Level 1 through a range of internal and external assessments. The topics covered are; Representation in the Media, Ethical Issues in the Media, Women in Science Fiction, Design and Plan a Short Documentary Film, and Production of a Documentary Film.

Additional Requirements: Students are not required to have completed Level 1 Media, although this is an advantage.

Contact: Mr S. Lilly

Music

Qualification: Level 2

Introduction: Music is a fundamental and precious human expression. In music class, students explore the question “What is Music” through composition, solo and collaborative performance and the study of music history to find their individual voices in music. We value the musical heritages of New Zealand’s diverse cultures. Students progress through increasingly higher levels of understanding and skill development toward scholarship and tertiary study.

Course Outline: Students perform music of their choice alone and in a group setting. Learning a second instrument is encouraged. Level 2 students look at creating an instrumentation for a song of their choice and investigate an aspect of New Zealand music that interests them. Study of music theory and aural skills will be incorporated into the course materials.

Additional Requirements: It is recommended that students have played an instrument for three years prior to this course.

Contact: Ms L. Raby

Music Theatre

Qualification: Level 3

*This course is for Year 12 students. The achievement standards offered are Level 3. There is no Music Theatre course for Year 13 students. Students who complete Music Theatre in Year 12 may move on to Level 3 Music.

Introduction: Musical Theatre is the art of storytelling. Using the mediums of singing, acting and choreographed movement students will combine these artforms to communicate with various audiences across a range of theatrical performance experiences.

Course Outline: Students will demonstrate their growing performance skills through practical work devising and performing original “musicals” in groups and presenting a public singing concert. They learn stage etiquette and self-presentation in preparation for the concert. Students should expect regular dance conditioning, basic dance vocabulary and simple choreography for use in their “musicals.” They should also expect to build on basic music theory learned in Year 10 and L1 Music and advance their skills in preparation for L3 contextual music studies. Learning about the history of Musical Theatre provides an essential introduction to a detailed study of a particular musical.

Additional Requirements: Weekly singing lessons. Students are strongly advised to have completed Year 10 and Level 1 Music in preparation for the exam in music at Level 3.

Contact: Ms L. Raby

Painting

Qualification: Level 2

Introduction: Art Painting aims to challenge and extend students in their understanding and application of painting. They are encouraged to explore painting in the widest possible terms. They are taught to build upon the traditional approaches of painting yet are encouraged to experiment with the overlaps that occur within contemporary art making. This course is strongly recommended for students who are considering taking a Fine Arts or Architecture course in the future. While this course focuses on painting, it does at times provide students with an opportunity to extend their art making practice into printmaking and/or sculpture. It aims to challenge and extend students in their understanding and application of painting.

Course Outline: Use drawing methods to apply knowledge of conventions appropriate to painting; Develop ideas in a related series of drawings appropriate to established painting practice; Produce a systematic body of work that shows understanding of art making conventions and ideas within painting.

Additional Requirements: It is recommended that students have taken Visual Art or Digital Art the previous year.

Contact: Mr F. Potter

Photography

Qualification: Level 2

Introduction: In Level 2 Photography students learn how to use a DSLR camera and alternative photographic methods. Students will use digital imagery and learn how to manipulate this in Photoshop and Lightroom. Students work on written research assignments on photographic artist models to gain an understanding of traditional and contemporary methods and ideas in photography practice.

Course Outline: Use drawing methods to apply knowledge of conventions appropriate to photography; Develop ideas in a related series of drawings appropriate to established photography practice; Produce a systematic body of work that shows understanding of art making conventions and ideas within photography.

Additional Requirements: Students must have a DSLR camera. Adobe suite is to be purchased from the school. There will be ongoing costs for printing, chemicals, black and white film and photographic paper..

Contact: Mr F. Potter

Physical Education

Qualification: Level 2

Introduction: The Level 2 Physical Education course encourages students to develop skills in leadership, communication, problem solving and self-management. Students will continue to take part in a mixture of theory and practical lessons which will include a wide range of sports and modified games.

Course Outline: Students will have the opportunity to perform a variety of physical activities in an applied setting, apply anatomy and biomechanics to a physical movement, understand and apply the elements of social responsibility and understand the body's responses to exercise by participating in a Duathlon training programme. As part of this course students are required to attend a 3-day Outdoor Education camp during Term 1. A snorkelling programme is run alongside the camp where students are taught the skills involved and assessed in a practical dive at Goat Island.

Additional Requirements: A fee is attached to the 3 Day compulsory camp at Matakana.

Contact: Mr J. Ross

Physical Education and Health (combined)

Qualification: Level 2

Introduction: The Level 2 Physical Education and Health course is a combination of both Physical Education and Health achievement standards. The course builds on the knowledge students developed in Level 1. They will be expected to take part in a mixture of practical and theory lessons. In Health students will start to develop a critical understanding about health issues and situations that impact well-being for individuals, their relationships with others and the wider society. They will also take part in physical education lessons where they will participate in a wide range of sports and modified games. Alongside this they will develop skills in leadership, communication, problem solving and self-management.

Course Outline: Students will have the opportunity to perform in a variety of physical activities in applied settings and understand and apply the elements of social responsibility in physical activity. They will also study health related topics related to resiliency and health promotion. This course has 15 credits available. Students are unable to do this course alongside both the Level 2 Physical Education and Level 2 Health courses.

Additional Requirements:

Contact: Mr J. Ross

Physics

Qualification: Level 2

Introduction: Physics provides the scientific basis for our understanding of many aspects of Science, technology and engineering including structural, mechanical, electrical, optical, robotics and information technology. Physics requires students to think clearly, logically and solve problems when confronted with unfamiliar situations. Physics is recommended for students who have interest and ability in both written explanations as well as the mathematics of Physics situations.

Course Outline: Level 2 Physics builds upon the core concepts covered in Level 1. This includes Mechanics, Electricity, Magnetism, Waves. There is a combination of external and internal credits and practical work is a key component of this course.

Additional Requirements: Students will be required to purchase a Physics workbook. It is recommended that students take L2MAC or L2MAX.

Contact: Miss B. de Kwant

Product Design (formerly Resistant Materials)

Qualification: Level 2

Introduction: Product Design is a creative subject where students learn how to design and manufacture products, working with various materials, components, tools and equipment. Students use a range of traditional and modern manufacturing processes, including Laser Cutting, CAD, 3D printing and CNC using timber and plastics. They record their design process and practical work evidence in an online portfolio and are assessed on technological processes, functional modelling and finished products. All units of work lead to a tangible outcome: a product, system or environment, allowing students to develop a range of solutions.

Course Outline: This course will suit problem solvers who enjoy the technological process. The course aims to further develop lateral thinking and problem solving using a range of materials and techniques. There is a focus on three dimensional object design and construction to meet specific needs and opportunities. Students will also use a range of graphics-based skills to record their design thinking visually. There may also be the opportunity for interested students to build some basic skills in design incorporating robotics.

Additional Requirements: The course will involve a fee for student materials.

Contact: Mr S. Kelly

Spanish

Qualification: Level 2

Introduction: Spanish is the second most spoken language in the world. In Level 2 Spanish students use Spanish to communicate in authentic situations and contexts and to further develop international-mindedness. Language learning allows students to learn how to be outside their cultural 'comfort zone' and to develop positive attitudes to difference. Speaking Spanish is a skill that will benefit students in their future careers in a connected and global world.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students use Spanish in a variety of contexts to discuss issues that have an impact on young people such as social media, the environment, health and wellbeing.

Additional Requirements: Students should have studied Spanish at Level 1 or have prior learning to have success. Students who speak Spanish as a heritage language will also be considered.

Contact: Mr J. Chapman

Spatial Design (formerly Design and Visual Communication)

Qualification: Level 2

Introduction: Spatial Design is about the generating, evolving and visual communicating of students' own three dimensional design ideas. The subject's focus is on the designing of spaces in contexts such as architecture, interior design and landscape architecture. Future pathways include Architecture, Art and Design, through design thinking and creative problem solving strategies have universal application.

Course Outline: This course builds on foundational design thinking and visual literacy in the context of three dimensional design as established at Level 1 DVC. Students develop their skills and understanding in design thinking and visual literacy appropriate to a site-specific spatial design context. Establishing an understanding and application of specialist spatial design knowledge, visually conveying design thinking, and independent project management are key attributes to success.

Additional Requirements: Completion of Level 1 DVC recommended. Laptop is recommended (minimum specs: Windows 7 or Apple macOS 10.10+; 1.6GHz; 4GB RAM; 40GB Storage). Specialist Spatial Design stationary will be required including a Visual Diary.

Contact: Mr M. Samaeli

Te Reo Māori

Qualification: Level 2

Ko taku reo taku ohooho, ko taku reo taku mapihi mauria - Language is the window to the soul.

Learning Te Reo Māori enables our students to learn about and understand the indigenous culture of Aotearoa and provides them with the opportunity to communicate and understand language used throughout our country. Skills in Te Reo Māori are highly useful in many sectors of New Zealand and becoming internationally respected in more and more areas. Knowledge of Te Reo Māori and culture is an advantage for a diverse range of careers and a deeper understanding and appreciation of history and culture.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students begin to engage in sustained interactions and produce increasingly extended texts. They explore the views of others, develop and share personal perspectives and justify support or challenge ideas and opinions.

Additional Requirements: Students need to have studied Te Reo Māori at Level 1, or have prior learning to have success in Level 2.

Contact: Whaea T. Peters

Textiles Design (formerly Soft Materials)

Qualification: Level 2

Introduction: Textiles Design involves a rich variety of learning experiences leading to a wide range of career opportunities. These may include but are not limited to: Fashion designer, pattern maker, cutter, stylist, buyer, retail management, sample machinist, interior designer, soft furnishings maker, product developer/designer, C.A.D. machine technician, event management, fashion journalist, knitwear designer, sail maker, textile designer, smart textile development for medical use, costume designer, wardrobe assistant..

Course Outline: The increased emphasis on creativity and individual choice provided by the flexibility of design briefs that enable a course to be designed which meets the needs of students. The courses include design briefs based on realistic and thought provoking situations. Students will be expected to seek individual, innovative solutions in a variety of ways. Studying technology in this context develops understanding, sharpens perceptions of design and creates awareness of the environment and of society's needs.

Additional Requirements: Completion of Level 1 Soft Materials is recommended.

Contact: Ms D. Woodward

Tourism

Qualification: Level 2

Introduction: An introduction to the Travel and Tourism industry gives students a head start in the qualifications that will lead to employment in New Zealand's fastest growth sector. A focus is on basic skills that are essential to a career in Travel and Tourism including communication, teamwork and mathematics. There are opportunities to learn about future career pathways throughout the year via guest speakers and also from short courses that are on offer. The first year of tourism provides the basis of attaining the certificate - New Zealand Certificate in Tourism - Introductory Skills which can help gain employment into the industry or provide a stepping stone to post-secondary education in the sector.

Course Outline: In Level 2 there are ten standards taught throughout the year. These include topics about the impacts of tourism on areas as well as how tourism businesses operate. All standards are taught internally and all are unit standards.

Additional Requirements: Field trips will require a small subsidised cost including the Auckland Harbour Bridge Climb and trip to the International Travel College of New Zealand.

Contact: Mr E. Jost

NCEA Level 3 Overview

In a Year 13 NCEA course, students will study five subjects. Students are encouraged to follow the curriculum pathways they created for themselves in their previous year's study. Students may choose a maximum of two science subjects from Biology, Chemistry and/or Physics.

To be awarded NCEA Level 3, students must achieve a total of 80 credits. 60 credits must be from Level 3 or above while an additional 20 credits may be achieved from Level 2.

There are additional requirements for students wishing to gain University Entrance. Further information can be found in the section, Tertiary Study Requirements.

Students in Year 13 may also choose to complete the New Zealand Scholarship Examinations. Students may enter one or more Scholarship examinations in addition to their NCEA Level 3 assessments.

The Takapuna Grammar Senior Curriculum document highlights the pathways for our NCEA subjects.

NCEA Level 3 Subject Information

Accounting

Qualification: Level 3

Introduction: Accounting is the foundation for financial literacy for both individuals and businesses. It is the language and backbone of all businesses, making it a very broad subject. Accounting is important for anyone who is contemplating running their own business, fulfilling a management role in the public or private sector and understanding business related issues. Students who can think logically, have a good work ethic and want to succeed should enjoy this subject. Topics are linked to real world situations and give students the ability to critically evaluate the economic environment surrounding business and their reaction to change.

Course Outline: The course has been set up to align with the content of a first year course of Accounting of a Business degree. This includes the focus on Limited Liability Companies, financial and management accounting, company law and analysing the financial report of a large New Zealand company on the NZX. Promoting knowledge and understanding of accounting as a financial language for businesses, applying financial and non-financial knowledge and skills to practical situations and preparing students for study at university.

Additional Requirements: Students are required to purchase a workbook.

Contact: Mr L. Videler

Agribusiness

Qualification: Level 3

Introduction: Agribusiness studies primary industries and business beyond the farm gate, encompassed by a group of sectors (agriculture, aquaculture, dairy manufacturing, equine, forestry, horticulture, seafood, and sports turf) that form the basis of modern food production.

Course Outline: Course material is based around the Agribusiness achievement standards under the strands of, Science and Technology, Innovation, Management and Finance and Marketing. Students will have the opportunity to develop an innovation for the Agri-sector and pitch it to a business panel. Virtual classroom technology will allow us to bring the sector to the students through a variety of online links to farms, key industry businesses, speakers from across the sector, and tertiary institutions.

Additional Requirements: It is an advantage for students to have studied Level 2 Biology and/or Chemistry; or Level 2 Accounting and/or Economics. A workbook is required.

Contact: Ms E. Johnson and Mr L Videler

Art History

Qualification: Level 3

Introduction: Art History is the study of the visual arts in civilization. It examines changing values in all fields of visual culture, including painting, sculpture, design, photography, architecture and forms of popular expression. Art History integrates research and knowledge, develops critical thinking and emphasises visual as well as verbal and written literacy. Study in Art History is complementary to other subjects such as History and Classics and does not need to be taken in conjunction with Practical Art. It is a valuable subject for visual art students and is especially beneficial to those students interested in studying Art, Design, Architecture and Law at a tertiary level.

Course Outline: Level 3 Art History covers the following topic: A selection of art and architecture from the Early Renaissance period as society is recovering and rebuilding after the Black Plague; Demonstrate understanding of style in art works; Examine how meanings are communicated through art works; Examine the relationship(s) between art and context; Examine the impact of media and processes on art works; Examine the different values placed on artworks; Examine the relationship(s) between a theory and art works.

Additional Requirements:

Contact: Mrs A. Sampson

Biology

Qualification: Level 3

Introduction: Biology is the study of life. Coupled with technology, it provides fascinating avenues for research into the treatment of disease, improvements in agriculture, managing our natural ecosystems and understanding how our bodies work. It is recommended that students selecting Level 3 Biology have gained a minimum of 14 credits in Level 2 Biology.

Course Outline: Level 3 Biology covers processes and patterns relating to Evolution, Human Evolution, Animal and Plant Biology and Biotechnology. The course is a mixture of external and internal credits and students will also have the opportunity to attend a molecular Biology laboratory workshop.

Additional Requirements: Students will be required to purchase a Biology workbook and attend a compulsory field trip to the zoo.

Contact: Mrs P. Opperman

Building and Construction

Qualification: Level 3

Introduction: Building and Construction offers hands-on learning experiences and knowledge of building and allied trade courses. The focus is on developing practical skills and knowledge in construction and related trades. A range of practical projects are undertaken to develop these skills. Careers in Furniture, Building, Construction and Allied trades.

Course Outline: This course builds on the skills developed in Level 2 Building and Construction, with projects that are more independent and collaborative in nature. The Unit Standards are both practical and theory based and are done in class. Projects have a focus on developing basic carpentry skills leading towards a career in the building industry. Students will work both individually and in teams. Safety is an assessment element in all units. The course is offering Level 3 BCATS Unit Standards from BCITO.

Additional Requirements:

Contact: Mr S. Kelly

Business Studies

Qualification: Level 3

Introduction: Students will study and apply business knowledge and understanding to the global business environment. It is an advantage to have studied Level 2 Business but not essential if a student demonstrates an aptitude, curiosity and developed interest in the subject. Students are enrolled in the Lion Foundation Young Enterprise Scheme (YES). This means students set up a real business for the year to take a product or service to market. Students will work closely and collaboratively with business leaders, mentors and specialists as they run their business.

Course Outline: NCEA is fully integrated into the requirements of YES. Students will be required to work successfully in a group situation and take responsibility for managing themselves and taking advantage of the business opportunities presented to them. Study builds on the foundations of business knowledge from previous levels of study and allows students to further investigate and explore their own innovative and sustainable business operation. They will deepen their understanding of the key concepts of Enterprise, Citizenship, Sustainability and Globalisation. They will gain the knowledge, skills and experience to analyse how and why businesses in New Zealand operating in the national and global markets make operational and strategic decisions in response to interacting internal and external factors. The content delivered supports a tertiary business course and future studies in this area.

Additional Requirements: It is an advantage for students to have studied Business Studies in previous years however not essential if they are actively interested in the world of business. There is a YES (Young Enterprise Scheme) programme enrolment fee.

Contact: Ms E. Johnson

Chemistry

Qualification: Level 3

Introduction: Chemistry provides students with an understanding of the material world. This includes the underlying structure and properties of substances, how and why substances interact with each other and how we can make use of them. Chemistry leads on to a wide range of occupations such as doctor, nurse, winemaker, psychiatrist, engineer and pharmacist. It is recommended that students selecting Level 3 Chemistry have gained a minimum of 14 credits in Level 2 Chemistry.

Course Outline: Organic Chemistry, Thermochemical Principles, Spectroscopy, Reduction/Oxidation and Aqueous Systems. There is a combination of external and internal credits and practical work is a key component of this course.

Additional Requirements: Students will be required to purchase a Chemistry workbook.

Contact: Dr D. Tonei

Chinese

Qualification: Level 3

Introduction: By learning Chinese, you will gain unique insights into the culture of one of the world's oldest civilisations. You will also gain an understanding of people and culture and engage with Chinese communities in New Zealand in order to bridge cultural differences. Proficient speakers of Chinese will find jobs in a variety of fields as many New Zealand organisations have links and relationships with China.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students engage with a variety of extended texts and begin to use the language with greater effectiveness. They explore the views of others, develop and share personal perspectives, and justify, support, or challenge ideas and opinions on matters that are beyond their immediate experience.

Additional Requirements: Students need to have studied Chinese at Level 2 or have prior learning to have success in Level 3 Chinese.

Contact: Ms M. Huang

Classical Studies

Qualification: Level 3

Introduction: Classical studies is the study of the people, places, and events of the classical world and how they influence the modern world. It is an interdisciplinary subject: students engage with literature, languages, art, history, science, technology, religion, and philosophy. Students explore cultural identity, values, and perspectives and think critically about human behaviour and relationships to appreciate the civilisations of ancient Greece and Rome, understand the past and the present, and to imagine possible futures.

Course Outline: Study the campaigns of Alexander the Great, examining his cultural and military influence on the ancient world and also Roman Imperial Art, looking at the propaganda value of art and architecture and how cultures were later influenced by this art. The bi annual Classics Trip will restart in 2025. We look forward to being able to offer this once in a lifetime experience.

Additional Requirements: A strong command of reading and writing, as students are expected to critically evaluate sources of information, write with confidence and formulate opinions surrounding ancient events and figures.

Contact: Mr J. Scott

Computer Science

Qualification: Level 3

Introduction: Computer Science is about developing an understanding of computer science principles which govern how computers work, learning core programming concepts and designing quality, fit-for-purpose digital outcomes, such as websites, databases and applications. The main focus is on creating code that is syntactically correct, efficient and achieves the purpose of the outcome for a specified audience.

Course Outline: This course builds on knowledge and skills from L2 CMP and requires students to work independently by researching User Experience Testing methods, experimenting with new script modules for website outcomes, learning object-oriented code for programming, and expanding databases to multiple tables. Students develop outcomes in an iterative manner that is authentic and demonstrates their ability in design, efficient coding and rigorous testing, using established industry processes. The outcomes have more complexity, with the focus on UX methodologies to produce a fit-for-purpose outcome.

Additional Requirements: Completion of Level 2 Computer Science recommended.

Students are required to bring their own laptop (tablets, ipads, chromebooks, etc are not suitable). Windows 10 or Apple macOS 10.10+, 2+GHz processor, 8GB RAM, 40GB hard disk space, 13" screen, Battery 5 hours +, Wifi capable, USB Port/dongle

Contact: Ms M. Cameron

Dance

Qualification: Level 3

Introduction: Dance is expressive movement in which students integrate thinking, moving and feeling. They explore and use the language of dance to express personal, group, and cultural identities and interpret artistic ideas. Students develop literacy in dance and respond to a variety of genres. They develop skills in performing and choreographing.

Course Outline: Students study performance technique and choreography. They perform either a solo or duet and a group dance at a large scale Dance Show. Students work individually on a major choreography work that incorporates the use of production technologies and a variety of processes and techniques to develop and manipulate movement. The external exam requires students to analyse a dance performance studied in class. The portfolio requires a high level of written literacy and advanced choreography skills.

Additional Requirements: Students are recommended to have studied Level 2 Dance or have previous dance and choreography experience. The course will involve a fee for the Dance show.

Contact: Mr J. Lobaton

Design

Qualification: Level 3

Introduction: Art Design promotes the understanding and development of fundamental skills and techniques relevant to the communication of design ideas, in two and three dimensions. Students learn to use the Adobe suite, including Photoshop and Illustrator. They develop an understanding of layout, typography and image manipulation through the study of contemporary designers. At Level 3 the course is individualised to suit each student's interests and strengths. There are opportunities to extend ideas into many different forms of design including; three-dimensional design, fashion design, interior design, textile design.

Course Outline: Use drawing to demonstrate understanding of conventions appropriate to design; Systematically clarify ideas using drawing informed by established design practice; Produce a systematic body of work that integrates conventions and regenerates ideas within design practice.

Additional Requirements: Students must be prepared to learn Photoshop and Illustrator very quickly if they have not previously studied an Art subject.

Contact: Mrs L. Sew Hoy

Drama

Qualification: Level 3

Introduction: Drama explores human experience through theatre works and other drama-creating activities. Working individually and collaboratively students learn to organise their ideas into dramatic performance capturing imagination, thoughts, and feelings through the use of body language and vocal expression. As students perform and respond to different forms of drama and theatre they learn deeper appreciation of their rich cultural heritage and values. Courses lead to NCEA scholarship, university entrance and tertiary-level theatre studies and drama schools.

Course Outline: Students study different theatre genres and choose to perform part of a play using acting techniques. They devise their own pieces drawn from a theme such as popular genres and act a role in a scripted play. An exam about a theatre work they have seen completes the year.

Additional Requirements: Students would be better prepared for this course if they had studied the preceding year in Drama. The course will involve a fee for Theatre visits.

Contact: Mr B. De Grut

Economics

Qualification: Level 3

Introduction: Students look at both micro-economic and macro-economic theory and find ways of applying this knowledge to the New Zealand economy. Students obtain a level of economic literacy and understanding which will allow them to develop a continuing and critical interest in contemporary economic issues. They will develop the ability to interpret and present economic data and arguments in a clear, concise and coherent manner.

Economics provides a solid basis for future study in the field of business.

Course Outline: The course covers three areas of economics: **Microeconomics:** the behaviour of firms and how they operate in different markets, recognises marginal concepts relating to supply and demand and studies the equilibrium positions of the perfectly competitive firm and the monopolist; **Market Failure:** the concept of market failure and its characteristics and the methods the government can use to compensate for market failure; **Macroeconomics:** involves describing and illustrating economic activity in terms of the circular flow and the aggregate demand–aggregate supply model and influences on the New Zealand economy by the financial market and the foreign exchange market. We then consider government policies such as monetary policy, fiscal policy and supply-side policies to achieve macroeconomic objectives.

Additional Requirements:

Contact: Mrs R. Branks

English

Qualification: Level 3

Introduction: Level 3 English is about responding to a range of literature and film critically. Personal reading, including critical readings of the studied texts is encouraged. English at Level 3 incorporates a wide range of skills essential for tertiary study, including critical thinking, research and academic writing.

Course Outline: Courses may vary depending on the students' and/or the teacher's choice of texts. Students will develop their skill at crafting thesis driven essays, close read unfamiliar texts, investigate connections across texts and critically respond to the way a director creates meaning in film which is assessed jointly with a seminar presentation.

Additional Requirements:

Contact: Mrs C. King

English Internal

Qualification: Level 3

Introduction: This is a complete Level 3 English course where students respond to a range of literature and film critically. It is designed for students who enjoy English but who would benefit from some extra time and support to meet the Level 3 standard. Students can meet the requirements for University Entrance in this course. Students cannot self select this course, they must discuss their placement with the Head of Faculty.

Course Outline: This course is assessed internally. Students will critically respond to the way a director creates meaning in film, produce a visual text, use critical texts to develop an informed understanding of a literary text and present a seminar. The texts studied can vary depending on the students' and/or the teacher's choice.

Additional Requirements:

Contact: Mrs C. King

French

Qualification: Level 3

Introduction: Learning a language provides insights into cultures and ways of thinking and expressing ideas which improve intercultural understanding. As they learn a language, students discover new ways of learning, new ways of knowing, and more about their own capabilities. French is a major international language, widely spoken in Canada, Africa, the Middle East, Asia, the Caribbean and Oceania. It is used for large organisations such as the United Nations, the Olympic Games and provides access to powerful literature. French language skills are highly sought after and are an advantage for a diverse range of careers.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students engage with a variety of extended texts and begin to use the language with greater effectiveness. They explore the views of others, develop and share personal perspectives, and justify, support, or challenge ideas and opinions on matters that are beyond their immediate experience.

Additional Requirements: Students need to have studied French at Level 2 or have prior learning to have success in Level 3 French. Students who speak French as a heritage language will also be considered.

Contact: Ms D. Benadie

Geography

Qualification: Level 3

Introduction: Geography is the study of earth as the home of people and explores interactions between both natural and cultural environments. Geography is unique in that it is not defined by one particular topic. Instead Geography's scope encompasses many different topics such as people, politics, settlements, geology, plants. Students learn to apply skills, critically assess information and evaluate people's values to understand current contemporary issues and global studies. It is a highly relevant discipline that seeks to understand and solve important issues facing the world we live in. Level 3 Geography is a university approved subject leading to degree level study in Geography or Environmental Science under either a Bachelor of Arts or Science. This course also leads into a Bachelor of Urban Planning.

Course Outline: Understanding of change, place, processes, patterns, sustainability and perspectives. We examine how coastal processes shape beaches and complete geographic research on a comparison of a Muriwai beach and an east coast beach. We look at the planning and decision making that goes into an event (Rhythm and Vines) and look at the causes and consequences of the cultural process of tourism development as it occurs both in New Zealand (Rotorua) and internationally (Hawaii).

Geography has an optional bi annual trip to Hawaii to learn about geographic processes in an overseas setting. The next trip will be in 2024.

Additional Requirements: A fee for day trip to Muriwai beach and two night trip to Rotorua.

Contact: Miss B. Sladen

Health

Qualification: Level 3

Introduction: The Level 3 NCEA Health course requires students to perceptively examine a wide range of issues that affect the health and well being of individuals. Students will develop their ability to research and think critically about these issues, and the personal, interpersonal and societal perspectives that determine the health outcomes for individuals and societies. Students who take this course are also encouraged to take part in Scholarship Physical Education and Health.

Course Outline: The course provides students with the opportunity to critically analyse both New Zealand and International health issues. Students will investigate the range of health practices currently used in New Zealand and evaluate their effects. Contemporary ethical issues and their impact on well-being are also studied.

Contact: Ms R. McDowell

History

Qualification: Level 3

Introduction: History is the study of people, events and societies from the past and how they influence the modern world. Students will conduct their own research into historical issues, engage with a range of primary and secondary source material and consider the impacts on New Zealand. Through doing this, students will develop a range of skills in academic writing and research, analysis and critical thinking.

Course Outline: History at Level 3 deals with the clash of Capitalism and Communism. This begins with an assessment of the use of the Atomic Bomb in 1945, which many historians view as the beginning of the Cold War. We then conduct a breadth study of the Vietnam War, before students select one aspect to conduct an academic research project on. Finally, we study the Russian Revolution and its impacts. Students will prepare for an external assessment which includes unseen sources. Students will develop the skills needed to succeed in this throughout the course. The Level 3 history programme is designed to allow students to gain literacy credits and University Entrance.

Additional Requirements: History requires a strong command of reading and writing, as students are expected to critically evaluate sources of information, write with confidence and formulate opinions.

Contact: Miss T. Curtis

Hospitality

Qualification: Level 3

Introduction: Hospitality offers a rich variety of learning experiences and knowledge of the food and beverage service industry. The subject's focus is on developing practical skills and strong communication skills. Students will learn to deliver high quality products in a time efficient and collaborative team environment. Working in the Hospitality area equips students with many skills, all transferrable in the job market. A passion for working with food can offer many career choices. Careers in food preparation, food and culinary arts, event management, food photography, food writers, teaching, food science, cafe/restaurant worker/owner.

Course Outline: This course builds on an understanding of the food and beverage service in the Hospitality Industry. Students will utilise their own developing design thinking that involves planning, designing and presenting baking and food appropriate for a range of special events. Students will develop their skills and understanding of working in a cafe culture while completing their barista and customer service qualifications.

Additional Requirements:

Contact: Ms M. Hyland

Japanese

Qualification: Level 3

Introduction: Learning a language provides insights into cultures and different ways of thinking, which improves intercultural understanding. Students discover new ways of learning, new ways of knowing, and more about their own capabilities. Learning Japanese enables students to learn about and understand a very different culture from New Zealand and provides them with the opportunity to communicate with Japanese people in their own language. Skills in Japanese are highly sought after by many businesses in New Zealand which have relationships with Japanese companies and are an advantage for a diverse range of careers.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students engage with a variety of extended texts and begin to use the language with greater effectiveness. They explore the views of others, develop and share personal perspectives, and justify, support, or challenge ideas and opinions on matters that are beyond their immediate experience.

Additional Requirements: Students need to have studied Japanese at Level 2, or have prior learning to have success in Level 3. Students who speak Japanese as a heritage language will also be considered.

Contact: Mrs P. Kent

Mathematics and Calculus

Qualification: Level 3

Introduction: Calculus is the branch of mathematics that explores variables and helps us to understand how they change. Calculus is used in many fields such as physics, astronomy, biology, engineering, economics, medicine, software development and sociology.

Course Outline: Level 3 Calculus includes the study of Algebra of Complex Numbers, Differentiation, Integration and Trigonometry. The course is mainly external but there is one internal assessment about Trigonometry.

Additional Requirements: Students will be required to purchase two workbooks. It's recommended that students have a particular interest in Algebra and Graphs and have completed the L2MAX or L2MAC course with success.

Contact: Mr. K. Hu

Mathematics and Statistics

Qualification: Level 3

Introduction: This course is designed to develop students' understanding of the quantitative side of modern society. Successful completion of the course is also a good preparation for further studies in any data driven discipline in the natural and social sciences. As the course is highly academic it is best suited to students who are equally happy to engage with words, numbers and figures.

Course Outline: The course includes the areas of knowledge of Linear programming, Time series data, Statistical inference, Probability concepts and distributions.

Additional Requirements: A graphical calculator is required. Students will be required to purchase workbooks for each topic. This course is recommended to students who completed the Level 2 MAS course with success.

Contact: Mr D. Menzies

Mathematics

Qualification: Level 3

Introduction: This course is designed for students who enjoy more practical applications of statistical and mathematical concepts and methods. It allows the student to develop and extend their current skills and apply them in new contexts of practical relevance for most career paths.

Course Outline: The L3MAT course includes the areas of knowledge covered are Linear programming, Systems of Equations, Bivariate data, Time Series Data, and Probability Concepts.

Additional Requirements: A laptop and graphical calculator and workbooks.

Contact: Mr D. Menzies

Media

Qualification: Level 3

Introduction: Media is a thematic year of study built around the genre of Film Noir and the sub-genre of Neo-Noir. Students use this field as a bank of knowledge from which to launch theoretical and practical assessment tasks. Students are not required to have completed Level 2 Media, although this is an advantage.

Course Outline: Level 3 Media Studies is the closest students can come to tertiary level Communication Studies at high school. It is a 20-Credit course for which the areas of study are; Significant Developments in the Media, Reading Media Texts through Multiple Lenses, the Relationship between Film Noir and Society, Design and Plan a Neo-Noir Short Film, and Production of a Neo-Noir Narrative Film.

Additional Requirements:

Contact: Mr S. Lilly

Music

Qualification: Level 3

Introduction: Students perform music of their choice alone and in a group setting. Learning a second instrument is encouraged. Level 2 students look at creating an instrumentation for a song of their choice and investigate an aspect of New Zealand music that interests them. Study of music theory and aural skills will be incorporated into the course materials.

Course Outline: Students build the music course of their choice and create an action plan to success alongside the teacher. Choices for study include performance alone or with others, performance on a second instrument, composing, songwriting, research, analysis of music works, harmonic and tonal analysis, contextual analysis, and arranging.

This course is open to Level 3 students who have completed a MUT course.

Additional Requirements: It is recommended that students have played an instrument for three years prior to this course.

Contact: Ms L. Raby

Painting

Qualification: Level 3

Introduction: Art Painting aims to challenge and extend students in their understanding and application of painting. They are encouraged to explore painting in the widest possible terms. They are taught to build upon the traditional approaches of painting yet are encouraged to experiment with the overlaps that occur within contemporary art making.

This course is strongly recommended for students who are considering taking a Fine Arts or Architecture course in the future.

While this course focuses on painting, it does at times provide students with an opportunity to extend their art making practice into printmaking and or sculpture. It aims to challenge and extend students in their understanding and application of painting.

Course Outline: Use drawing to demonstrate understanding of conventions appropriate to painting; Systematically clarify ideas using drawing informed by established painting practice; Produce a systematic body of work that integrates conventions and regenerates ideas within painting practice.

Additional Requirements:

Contact: Mr F. Potter

Photography

Qualification: Level 3

Introduction: In Level 3 Photography students learn how to use a DSLR camera and alternative photographic methods. Students will use digital imagery and learn how to manipulate this in Photoshop. Students work on written research assignments on photographic artist models to gain an understanding of traditional and contemporary methods and ideas in photography practice. Students use mainly digital cameras and technologies to generate, develop and clarify their ideas. Studying photography at school can lead to exciting careers including being a photographer, artist or film maker or working in advertising or photojournalism.

Course Outline: Use drawing to demonstrate understanding of conventions appropriate to photography; Systematically clarify ideas using drawing informed by established photography practice; Produce a systematic body of work that integrates conventions and regenerates ideas within photography practice.

Additional Requirements: Students must have a DSLR camera. Ongoing costs for chemicals, black and white film and photographic paper. Students can buy Adobe suite from school.

Contact: Mr F. Potter

Physical Education

Qualification: Level 3

Introduction: The NCEA Level 3 course encourages students to critically evaluate their physical activity experiences to encourage lifelong well-being. The programme is structured to allow students to reflect on their participation and connect this with the wider community. Students who take this course are also encouraged to take part in Scholarship Physical Education and Health.

Course Outline: At Level 3 students will be involved in a wide range of sporting contexts and will have the opportunity to be assessed in these. They will also take part in a comprehensive golf programme and will carry out an in-depth biomechanical analysis of their golf swing. Students will also evaluate their physical activity experiences and plan for the future, take part in and evaluate a training programme, and examine a current physical activity issue.

Additional Requirements:

Contact: Mr J. Ross

Physical Education and Health (combined)

Qualification: Level 3

Introduction: The Level 3 Physical Education and Health course is a combination of both Physical Education and Health achievement standards. The course builds on the knowledge students developed in Level 2, they will be expected to take part in a mixture of practical and theory lessons. Students will take part in Health lessons where they start to develop a critical understanding about health issues and situations that impact well-being for themselves and others. They will also take part in Physical Education lessons where they will participate in a wide range of sports and activities, and understand the anatomical and biomechanical principles involved. Alongside this they will evaluate their physical activity experiences to encourage lifelong physical well-being.

Course Outline: Students will have the opportunity to perform a variety of physical activities in applied settings, and apply and discuss the biomechanical principles of a particular skill. They will also analyse their own physical activity experiences and set goals around these for the future. The topic covered in the Health will be related to a current ethical health issue. This course has 15 credits available. Students are unable to do this course alongside both the Level 3 Physical Education and Level 3 Health courses.

Additional Requirements:

Contact: Mr J. Ross

Physics

Qualification: Level 3

Introduction: Physics provides the scientific basis for our understanding of many aspects of science, technology and engineering including structural, mechanical, electrical, optical, robotics and information technology. Physics requires students to think clearly, logically and solve problems when confronted with unfamiliar situations. Physics is recommended for students who have interest and ability in both written explanations as well as the mathematics of Physics situations. It is also recommended that students selecting Level 3 Physics have gained a minimum of 14 credits in Level 2 Physics.

Course Outline: Level 3 Physics builds upon the core concepts covered in Level 2. This includes Mechanics, Electricity, Magnetism, Waves. There is a combination of external and internal credits and practical work is a key component of this course.

Additional Requirements: Students will be required to purchase a Physics workbook.

Contact: Miss B. de Kwant

Product Design (formerly Resistant Material)

Qualification: Level 3

Introduction: Product Design is a creative subject where students learn how to design and manufacture products, working with various materials, components, tools and equipment. Students use a range of traditional and modern manufacturing processes, including Laser Cutting, CAD, 3D printing and CNC using timber and plastics. They record their design process and practical work evidence in an online portfolio and are assessed on technological processes, functional modelling and finished products. All units of work lead to a tangible outcome: a product, system or environment, allowing students to develop a range of solutions.

Course Outline: To fully appreciate the holistic nature of the technological process, the course is delivered through a single student-identified problem that forms the year's work. The problem is client-based and relies on genuine client and stakeholder involvement at all stages of the technological process that is documented through a portfolio of sketches/photographs and annotation. Planning, design thinking, the communication of ideas, and clear client dialogue are important. Students are encouraged to take advantage of digital technologies including the laser cutting and CNC router to develop applied designs.

Additional Requirements: The course will involve a fee for materials.

Contact: Mr S. Kelly

Spanish

Qualification: Level 3

Introduction: By the end of Level 3 students will have reached a high level of fluency and will be able to continue studying Spanish at university. In Level 3 Spanish students use Spanish to communicate in authentic situations and contexts and to further deepen international-mindedness. Language learning allows students to learn how to be outside their cultural 'comfort zone' and to develop positive attitudes to difference. Speaking Spanish is a skill that will benefit students in their future careers in a connected and global world.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students use Spanish in a variety of contexts to discuss world issues such as immigration, economic inequality and politics.

Additional Requirements: Students need to have studied Spanish at Level 2 or have prior learning to have success in Level 3 Spanish. Students who speak Spanish as a heritage language will also be considered.

Contact: Mr J. Chapman

Spatial Design (formerly Design and Visual Communication)

Qualification: Level 3

Introduction: Spatial Design is about the generating, evolving and visual communicating of students' own three dimensional design ideas. The subject's focus is on the designing of spaces in contexts such as architecture, interior design and landscape architecture. Future pathways include Architecture, Art and Design, through design thinking and creative problem solving strategies have universal application.

Course Outline: This course builds on an understanding and visual narrative of design thinking that is fostered through a spatial design context from Level 1 and 2 DVC. Students utilise their own developing design thinking that involves the ideation, resolution and exhibition of spatial design outcomes to a personalised design project. Key attributes for success is recognising an emerging personal design perspective, the creative integrating of design and drawing skills and thinking, and independent project management.

Additional Requirements: Completion of Level 2 DVC recommended. Laptop is recommended (minimum specs: Windows 7 or Apple macOS 10.10+; 1.6GHz; 4GB RAM; 40GB Storage). Specialist DVC stationary will be required including a Visual Diary.

Contact: Mr M. Samaeli

Te Reo Māori

Qualification: Level 3

Ko taku reo taku ohooho, ko taku reo taku mapihi mauria - Language is the window to the soul.

Learning Te Reo Māori enables our students to learn about and understand the indigenous culture of Aotearoa and provides them with the opportunity to communicate and understand language used throughout our country. Skills in Te Reo Māori are highly useful in many sectors of New Zealand and becoming internationally respected in more and more areas. Knowledge of Te Reo Māori and culture is an advantage for a diverse range of careers and a deeper understanding and appreciation of history and culture.

Course Outline: This course further develops the four language learning skills of listening, speaking, writing and reading. Students engage with a variety of extended texts and begin to use the language with greater effectiveness. They explore the views of others, develop and share personal perspectives, and justify, support, or challenge ideas and opinions on matters that are beyond their immediate experience.

Additional Requirements: Students need to have studied Te Reo Māori at Level 2, or have prior learning to have success in Level 3. Students who speak Te Reo Māori as a native language will also be considered.

Contact: Whaea Tina Peters

Textiles Design (formerly Soft Materials)

Qualification: Level 3

Introduction: Textiles Design involves a rich variety of learning experiences leading to a wide range of career opportunities. These may include but are not limited to: Fashion designer, pattern maker, cutter, stylist, buyer, retail management, sample machinist, interior designer, soft furnishings maker, product developer/designer, C.A.D. machine technician, event management, fashion journalist, knitwear designer, sail maker, textile designer, smart textile development for medical use, costume designer, wardrobe assistant.

Course Outline: The increased emphasis on creativity and individual choice provided by the flexibility of design briefs that enable a course to be designed which meets the needs of students. The courses include design briefs based on realistic and thought provoking situations. Students will be expected to seek individual, innovative solutions in a variety of ways. Studying technology in this context develops understanding, sharpens perceptions of design and creates awareness of the environment and of society's needs.

Additional Requirements: Completion of L2TMS is recommended.

Contact: Ms D. Woodward

Tourism

Qualification: Level 3

Introduction: A course of study based on the New Zealand and Pacific tourism industry as well as essential travel and tourism skills such as Geography and how the tourism industry operates. These qualifications provide students with a head start for further study and employment in New Zealand's fastest growing sector. There are opportunities to learn about future career pathways throughout the year via guest speakers and also from short courses that are on offer.

Course Outline: In Level 3 there are five standards that are taught throughout the year with the possibility of two optional standards. These range from learning about Pacific Islands to world Geography and the economic impacts of tourism as well as looking at tourism in New Zealand. All standards are taught internally and all are unit standards.

Additional Requirements: Level 2 Tourism is recommended, but not a requirement. If you're aiming to get the certificate in tourism, then you need to have completed the majority of standards at Level 2. There is one field trip scheduled for Rainbows End with a small subsidised fee.

Contact: Mr E. Jost

Tertiary Study Requirements

Takapuna Grammar School students are well prepared for the academic rigour of tertiary education. Many of our students go on to further their education at one of New Zealand's Universities or Polytechnics. We also provide an excellent platform for students to apply for, and study, at one of the many overseas Universities.

Each year a number of our students gain Scholarships to New Zealand Universities. Please see a Deputy Principal for more information on how to apply for these.

University Entrance (UE) is the minimum requirement to go to a New Zealand University. To qualify for UE a student requires:

| | |
|----------|---|
| 1 | NCEA Level 3 |
| 2 | Three subjects - at Level 3 , made up of: <ul style="list-style-type: none">• 14 credits in each of three approved subjects. * |
| 3 | Literacy - 10 credits at Level 2 or above, made up of: <ul style="list-style-type: none">• 5 credits in reading• 5 credits in writing |
| 4 | Numeracy - 10 credits at Level 1 or above. |

*University approved subjects are identified in the Takapuna Grammar Senior NCEA Curriculum Guide.

Student Ranking for Controlled Entry Courses

Some Universities use a rank score system for guaranteed or preferential entry into some courses of study, especially for those with limited or competitive entry.

A student's rank score is based on their best 80 credits at Level 3 or higher over a maximum of five approved subjects. The credits are then weighted by awarding points based on the level of achievement with Excellence (4 points), Merit (3 points), and Achieved (2 points).

NCEA Level 3 credits achieved before Year 13 can be counted towards the 80 best credits used for ranking.

For accurate and up to date information on each tertiary provider, including entrance requirements for particular courses, please refer to their individual websites.

Careers

Our Careers Department is available to advise students on the many pathways available to them when they leave school. This includes advice on tertiary courses and employment opportunities. Many of our students go on to forge a wonderful career by entering the workforce straight from school.

Gateway

Gateway is a programme initiated and funded by the Tertiary Education Commission (TEC). It offers students the opportunity to experience structured workplace learning in an industry of their choice. Students gain new skills and knowledge and pursue individual learning plans which achieve unit standards.

STAR

STAR (Secondary Tertiary Alignment Resource) courses provide programmes in typically non-conventional subjects for senior students. STAR's intention is to enable secondary schools to facilitate their students' smooth transition from schooling to further education or employment. Star courses are run through Tertiary Institutions and some have unit standards attached.

Guide to Choosing School subjects - (Click on the links to see what the different universities require)

[University of Auckland](#)

[University of Otago](#)

[Required and recommended background subjects | February 2023](#)

[University of Wellington](#)

<https://www.wgtn.ac.nz/study/course-planning/school-subjects>

[AUT](#)

[Massey University](#)

[University of Waikato](#)

[University of Canterbury](#)

Required & Recommended Subjects – Tertiary & Trades

Choosing Subjects

This is a general guide for study areas where a background in certain school subjects is **required** for entry into tertiary programmes and some apprenticeships. Some subjects are **useful** for knowledge and skills, but others are **strongly recommended** to see success in certain areas.

If a student has not got a clear idea of a future career, keeping their subjects broad at school is recommended.

- Studying Science at Level 1 keeps options open for some trades and roles in the NZ Defence Force.
- Basic Maths and English are needed at Level 1 for most jobs.
- Only a very small number of university courses have compulsory requirements. These tend to be Science and Maths subjects.
- **E.L.R.** are English-rich subjects (such as English, History, Classics, Geography etc) and these can be required for some degrees.

| Subject Guide - Tertiary Study | | |
|---------------------------------------|--|--|
| Study Areas | Compulsory subjects | Recommended subjects |
| Architecture | None (<i>but Portfolio of work required</i>) | Art Design and/or Painting, Design & Visual Communication. One E.L.R. subject. Physics, Maths & Digital Technology are useful. |
| Aviation (<i>Massey University</i>) | One E.L.R. subject + ADAPT test | Physics & Calculus. Statistics useful. |
| Business | None | Maths and/or Economics, Accounting & other business subjects. |
| Computing & IT | None | Calculus & Digital Technology. |

| Study Areas | Compulsory subjects | Recommended subjects |
|--|--|---|
| Biological Sciences | None | Biology, Chemistry & Statistics. One E.L.R. subject. |
| Biomedical Science (<i>entry to Medicine Auckland University</i>) | None | Chemistry (<i>strongly recommended</i>), Biology and Statistics. One E.L.R. subject. |
| Engineering | Calculus & Physics. Chemistry (<i>compulsory for some degrees</i>) | Chemistry. |
| Environmental Science | None | Geography & Statistics. Biology useful. |
| Health Sciences First Year (<i>entry to Medicine, Dentistry, Medical Laboratory Science, Physiotherapy & Pharmacy at Otago University</i>) | None | Biology, Chemistry & Physics (or Jump Start Physics if no Level 2) and Mathematics (Statistics preferably or Calculus). One E.L.R. subject. |
| Health Sciences at AUT (<i>Nursing, Paramedicine, Physiotherapy, Midwifery, Podiatry, Occupational Therapy, Oral Health at AUT</i>) | None | Biology, Statistics and one E.L.R. subject. |
| Food Technology | Calculus, Physics & Chemistry (<i>Massey University</i>) | Biology, Chemistry, Maths. |
| Human Nutrition | Biology & Chemistry (<i>Massey University</i>) | Biology, Chemistry, Maths & an E.L.R. subject. |

| Study Areas | Compulsory subjects | Recommended subjects |
|----------------------------------|---|--|
| Law | None | A minimum of one E.L.R. subject. Two recommended. |
| Land surveying | None | Calculus, Physics & Geography. |
| Medical Laboratory Science (AUT) | Biology, Chemistry & Statistics. | An E.L.R. subject. |
| Medical Imaging | English, Maths & Science (Physics preferred) - AUT | Chemistry, Biology & one E.L.R subject. Physics & Calculus are useful. |
| Nursing | One science - Biology, Chemistry or Physics (<i>except AUT</i>) | Maths & an E.L.R. subject. |
| Optometry | None | Biology, Chemistry & one E.L.R. subject. Physics & Maths useful. |
| Osteopathy | Biology, P.E. or Health Education and one E.L.R. subject (<i>Ara Institute</i>) | |
| Pharmacy | None | Biology, Chemistry & one E.L.R. subject. Physics & Maths useful. |
| Physical Sciences | None | Physics, Calculus & Chemistry. |
| Quantity Surveying | At least Level 2 Maths. | Strong in Maths (Economics/Accounting useful) |
| Radiation Therapy | Maths and Physics or Biology and Te Reo Māori or E.L.R. subject. | |

| Study Areas | Compulsory subjects | Recommended subjects |
|--------------------|---|--|
| Nursing | One science - Biology, Chemistry or Physics (<i>except AUT</i>) | Maths & an E.L.R. subject. |
| Optometry | None | Biology, Chemistry & one E.L.R. subject. Physics & Maths useful. |
| Osteopathy | Biology, P.E. or Health Education and one E.L.R. subject (<i>Ara Institute</i>) | |
| Pharmacy | None | Biology, Chemistry & one E.L.R. subject. Physics & Maths useful. |
| Physical Sciences | None | Physics, Calculus & Chemistry. |
| Quantity Surveying | At least Level 2 Maths. | Strong in Maths (Economics/Accounting useful) |
| Radiation Therapy | Maths and Physics or Biology and Te Reo Māori or E.L.R. subject. | |
| Veterinary Science | None, but a very Competitive 6 month Pre selection semester | Biology, Chemistry, Physics & Maths to be competitive. One E.L.R. subject. |

| General Subject Guide – Pre-trades, apprenticeships and other | |
|--|---|
| Agriculture/Horticulture | Level 1 Science is useful. |
| Construction apprenticeships <i>e.g. cabinetmaking, carpentry, plumbing.</i> | Level 1 Maths & English. A Technology subject at Level 1 is recommended. |
| Electrical apprenticeships | ETCO requires 8 credits in each of English, Maths & a Science at Level 2 (preferably Physics). Unitec's pre-trade course: Level 1 maths, English, Physics (or General Science). |
| Automotive apprenticeships | Level 1 Maths & English. For MITO, need to pass Literacy & Numeracy tests. |
| Barbering/hairdressing | Basic literacy & numeracy. No specific subjects. Visual Art & Science at Level 1 useful. |
| Chefing/Hospitality | Basic literacy & numeracy. Experience in industry is useful e.g. part-time work. |
| Police | Level 2 English & Maths recommended to pass entry aptitude tests. |
| Defence Force | Many apprenticeships require a minimum of NCEA Level 1 with Science. |

