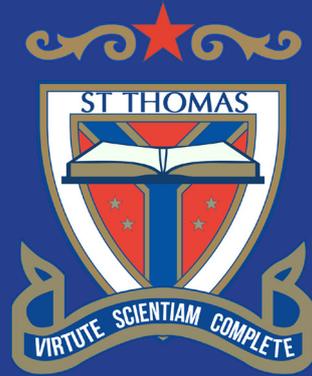




*"Educated Hearts, Educated Minds"*



ST THOMAS OF CANTERBURY COLLEGE  
**SENIOR COURSE BOOKLET**  
**2022**  
YEAR 12 & 13



*This senior course booklet contains information to help you select your courses at Year 12 and 13 in 2022.*

# COURSE SELECTION PROCESS

1. In week 9 of term 3 there will be a course expo held at school for year 11 and 12 students.
2. Students will have week 9 and 10 to complete their selections online via the student portal in MUSAC Edge. See image on page 3 (Student view – MUSAC).
3. Please refer to the option lines on page 2 when selecting your courses online. You must select courses from different option lines.
4. Please note you may not be able to select a course if it has reached its maximum numbers, so the advice is to make your course selection as soon as possible after the expo event.
5. Mentors, teachers, and Leaders of Learning will be available for students to discuss options.
6. Online course selection must be completed by **Friday 1st October 2021**
7. Mr Biggs and Mr Auimatagi are available all week to answer any questions.

## COURSE COUNSELLING

All students will be offered advice by the Careers Advisor and Deans, to ensure that a sensible and realistic course of study is planned. Parents are encouraged to be involved in this decision and it is up to the family to sit down and discuss the options.

If you need help with your choice of subjects, please ask:

The Counsellor and Careers Advisor - Mr Brian Knopp, Ms Maryanne Skidmore / Mr Marty Taylor or Brendan Biggs

Your present subject teachers, Mentoring Teacher and Deans

Parents are invited to ring the College (348-7010) if they wish to discuss your subject choices with Mr Knopp, or your Deans.

**ALL STUDENTS MUST HAVE SELECTED THEIR 2022 COURSES  
BY FRIDAY 1ST OCTOBER 2021**



**Social & Community  
Services**

Ratonga Pāpori,  
Ratonga Hapori



**Construction &  
Infrastructure**

Te Mahi Hanga me te  
Pūtoi Hanganga



**Manufacturing &  
Technology**

Te Whakanao me te  
Hangarau



**Primary Industries  
(Food & Fibre)**

Ahumahi  
Matua



**Service  
Industries**

Ahumahi  
Ratonga



**Creative  
Industries**

Ahumahi  
Auaha

# OPTION LINES 2022

## YEAR 13

A	B	C	D	E	F	G
13MAS	13PHY	13CHE	13ENG	13DRA	13PRI	13REL
13PHO	13PHE	13BUS	13COM	13MAC	13BIO	13REO*
13SPT*	13PAI	13HEA	13TEC*	13GEO	13DVC*	
13CHI*	13SMO*	13MUS		13DSN	13DFS*	
		*ESL				

- Students must select at least 5 course options from across the different option lines (A-G)
- Students must select REL in Option Line G

## YEAR 12

A	B	C	D	E	F	G
12PHY	12ENG	12PGD	12PGD	12MAS	12DVC*	12MAS
12SPT*	12SMO*	12REL	12REL	12MAG	12DRA	12BUS
12EMP	12PHO	12PAI	12HEA	12ODL	12REL	12PHE
12CHI*	12MAC	12PHE	12TEC*	12CHE	12PGD	12DSN
12PRI	12MUS	12ENG	12BIO	12ENG	12DFS*	12REO*
		*ESL			12GEO	12ENG

- Students must select 7 course options from across different option lines (A-G)
- Students must select PGD in either Option Line C, D or F
- Students must select REL in either Option Line C, D or F

\* Multi-level Classes

### Subject Names

ART Visual Art  
 BIO Biology  
 BUS Business  
 CHE Chemistry  
 CHI Chinese  
 COM Communications  
 DFS Digital Film and Sound Recording  
 DRA Drama Studies  
 DSN Design – Digital Art  
 DVC Design and Visual Communications  
 ECO Economics  
 EMP Employment Studies  
 ENG English  
 ESL ESOL  
 GEO Geography and

Sustainability  
 GRA Graphics  
 HEA Healthy Communities  
 MAC Maths with Calculus  
 MAS Maths with Statistics  
 MAG General Mathematics  
 MUS Making Music  
 ODL Outdoor Leadership  
 PAI Painting  
 PGD Personal Growth and Development (Y12 Compulsory)  
 PHE Physical Education  
 PHY Physics  
 PRI Printmaking  
 REL Religious Studies (Compulsory)

REO Kaupapa Māori  
 SMO Samoan Language  
 SPT Sport Performance  
 TEC Technology

**Selected Options**

0/7 selected.

(No courses found)

**Change Options**

Show courses for:

Course	Reporting Name
<input type="checkbox"/> A.13CHI	Year 13 Chinese
<input type="checkbox"/> A.13MAS <a href="#">info</a>	Year 13 Statistics
<input type="checkbox"/> A.13PHO	Year 13 Photography
<input type="checkbox"/> A.13SPT	Year 13 Sport Performance
<input type="checkbox"/> B.13PAI	Year 13 Art Painting
<input type="checkbox"/> B.13PHE <a href="#">info</a>	Year 13 Physical Education

Student View on Edge

# CONSIDERATIONS

In choosing a Year 12 - 13 course you are partly restricted by what you have taken in the previous year. Beyond that you should make sure that your choice of subjects allows for future flexibility and is relevant to your possible career needs. It is wise for students to think in terms of several possible career areas.

**Here are a few simple principles by which you can avoid career limitation.**

1. Do not choose courses because of the perceived amount of work they may contain. Look beyond the work aspect and more towards the future doors this subject will open to you.
2. If you are in Year 12, plan your Year 13 course as well so that your choice of Year 12 subjects gives you a viable course in Year 13, and with a view to future career choice.
3. If you are to be in Year 13, carefully check the subjects List and match subjects with your future desired qualifications and careers.
4. If you are considering a scientific or engineering career, at Year 12 you should consider taking English, Mathematics, Chemistry and Physics. The fifth subject could be chosen according to your interests. There are very few Science careers that require Physics without Chemistry, or Biology without Chemistry.
5. Mathematics - Scientific, commerce and technical occupations require Mathematics to Year 12 at least.
6. English and other literacy subjects such as History at Year 13 level are a considerable benefit for university study as it is often assessed through essays and written assignment work.
7. If you are not interested in a scientific or technical occupation, the choice of subjects is less critical. However, the inclusion of Mathematics increases the range of occupations that it may be possible for you.
8. By using career quest, you will be able to check that your subjects and career choice match up. You can also do a comprehensive career assessment on the library computers. Use the website [www.careers.govt.nz](http://www.careers.govt.nz)

By using career quest, you will be able to check that your subjects and career choice match up. You can also do a comprehensive career assessment on the library computers. **Use the website [www.careers.govt.nz](http://www.careers.govt.nz)**

If you want further direction, see your **Guidance Counsellor, Dean of House or the Career and Employment Coordinator.**

## **COURSE DESCRIPTION:**

Biology is the study of life. It involves you investigating the variety and complexity of living organisms. You will learn more about yourself, and how you fit into the wider world, as well as how other living organisms have evolved and changed to meet the demands of our modern environment.

## **EXTERNALS**

91156 Demonstrate understanding of life processes at the cellular level

91157 Demonstrate understanding of genetic variation and change

## **INTERNALS**

91154 Analyse the biological validity of information presented to the public

91155 Demonstrate understanding of adaptation of plants or animals to their way of life

91158 Investigate a pattern in an ecological community, with supervision

## **PRE-REQUISITES:**

Level 1 Science

12 credits including Achieved grades in two of the following standards

1.1- Practical investigation

Science 1.9 - Genetics

Science 1.11 - Microbes

## **ASSESSMENT:**

10 credits internally assessed based on practical work and research

8 credits externally assessed based on end of year examinations

## **COSTS:**

Field trip, (temple basin for three days, approx. \$160) and optional work book (\$25)

Education perfect (\$30)

**ENQUIRIES TO:** Miss Gulliver

## **WHY THIS COURSE?**

You should take this course if you have an interest in how living things function, how living things interact, why man's influence on the world is so important, or why life is so special. It is a vast subject ranging from smaller than microscopic right up to the whole planet as an interacting ecosystem. This course endeavours to give you a taste of all aspects of Biology so you can discover which areas of the subject interest you.

Studying Biology is recommended if you are interested in careers such as Medicine, Veterinary Science, Dentistry, Physiotherapy, Horticulture, Agriculture, Nursing, Biochemistry, Physiology, Conservation, Physical Education, Parks and Recreation.

## **COURSE DESCRIPTION:**

Biology is the study of life. It involves you investigating the variety and complexity of living organisms. You will learn more about yourself, and how you fit into the wider world, as well as how other living organisms have evolved and changed to meet the demands of our modern environment.

## **EXTERNALS**

91603 Demonstrate understanding of the responses of plants and animals to their external environment

91606 Demonstrate understanding of trends in human evolution

## **INTERNALS**

91607 Demonstrate understanding of human manipulations of genetic transfer and its biological implications

91604 Demonstrate understanding of how an animal maintains a stable internal environment

91602 Integrate biological knowledge to develop an informed response to a socio-scientific issue

## **PRE-REQUISITES:**

Level 2 Biology

14 credits including Achieved grades in two of the following standards:

Biology 2.4 - Cells

Biology 2.5 - Genetic variation

## **ASSESSMENT:**

9 credits internally assessed based on practical work and research

9 credits externally assessed based on end of year examinations

## **COSTS:**

A field trip to Orana Park to study primates. (Approximately \$15)

Course stationery (work book Option- approx. \$30 and (\$30- education perfect)

**ENQUIRIES TO:** Miss Gulliver

**WHY THIS COURSE?** You should take this course if you have an interest in how living things function, how living things interact, why man's influence on the world is so important, or why life is so special. It is a vast subject ranging from smaller than microscopic right up to the whole planet as an interacting ecosystem. This course endeavours to give you a taste of all aspects of Biology so you can discover which areas of the subject interest you.

# 12BUS - BUSINESS - LEVEL 2

## **COURSE DESCRIPTION:**

This course is vocationally relevant to any business, whether you want to run your own business or find out more about how a business operates and works. It is based around the level 2 Business Studies achievement standards

This course looks at the how a business works and the process of setting up a business and selling a product. It looks at how managers can also motivate the staff.

## **HOW LONG IS THE COURSE?**

Full year course, 19 Credits.

## **ACHIEVEMENT STANDARDS (19 CREDITS FOR FULL YEAR) WILL COVER**

- Motivation in practice in the work place
- Conduct Market research
- Develop a business and carry out the business activity on two occasions
- Internal operations of a large organisation (External)
- Useful for anyone thinking of being their own boss
- Useful for preparation for 13Business
- Requires reasonable literacy skills

## **LEARNING AREAS:**

Business Studies

Contact for further information: **Yvonne Shields**

# 13BUS - BUSINESS - LEVEL 3 - UE APPROVED

## **COURSE DESCRIPTION:**

Designing and developing a sustainable business which focuses on financial and environmental sustainability.

This course is based around internal assessments from the Level 3 Business Studies. It will focus on 2 internal assessments, one worth 6 credits and one worth 9 credits. The 9 credit assessment follows closely some of the Young Enterprise Scheme (YES) and student are expected to partake in the YES events. It provides 15 credits internally which will provide a UE circle.

## **HOW LONG IS THE COURSE?**

Full year course, 15 Credits.

## **ACHIEVEMENT STANDARDS (19 CREDITS FOR FULL YEAR) WILL COVER**

- Designing an innovative product and bringing it to the market to sell over a period of 3 months
- Developing a marketing plan for the business to enable the sales to increase
- Suitable for anyone thinking about Commerce subject at university
- Anyone going into a trade that might want to think about being their own boss
- Anyone interested in how a business works and develops

## **LEARNING AREAS:**

Commerce, UE Approved subject, UE Reading credits

Contact for further information: **Yvonne Shields**



## COURSE DESCRIPTION:

Description automatically generated Everything is made of matter. Chemistry is the science which investigates matter and how it reacts under various conditions.

Level 3 Chemistry expands on the ideas introduced in the Level 2 course and prepares students for tertiary study in both Chemistry and related fields. Chemistry can be taken on its own or coupled with Physics and/or Biology at NCEA Level 3.

## EXTERNALS

- Demonstrate understanding of Thermochemical Principles and the properties of particles and substances (5)
- Demonstrate understanding of the properties of organic compounds (5)
- Demonstrate understanding of equilibrium principles in aqueous systems (5)

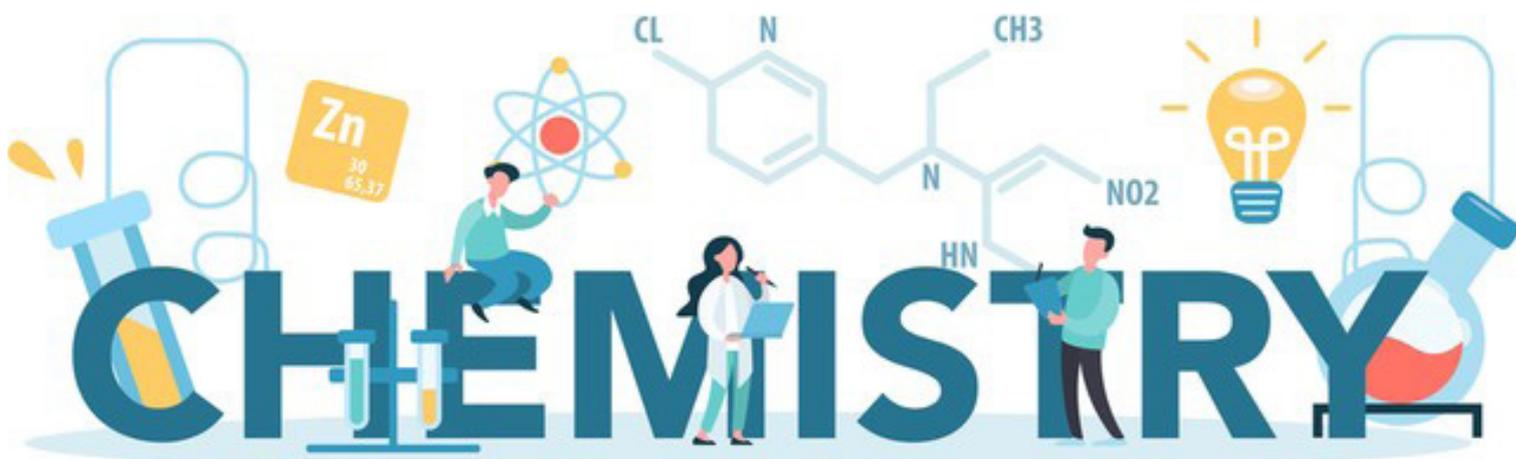
## INTERNALS

- Demonstrate understanding of spectroscopic data in chemistry (3)
- Demonstrate understanding of oxidation-reduction processes, (3)
- Demonstrate understanding of chemical processes in the world around us, (3, optional)

## PRE-REQUISITES:

12 Credits in L2 Chemistry

**ENQUIRIES TO:** Bronwyn Trewin or Andrew Jones



## 12/13CHI - CHINESE - LEVEL 2/3

### COURSE DESCRIPTION:

This course enables students to gain a deeper understanding of the Chinese language, culture and heritage. This subject is of value to many employers as it allows students to market themselves as a person able to train, work and converse with a growing Chinese economy. We will also support students working towards a Chinese language scholarship at HUST University in Wuhan, China. Students also have the option of working towards different levels of the internationally-recognised HSK exam.

### HOW LONG IS THE COURSE?

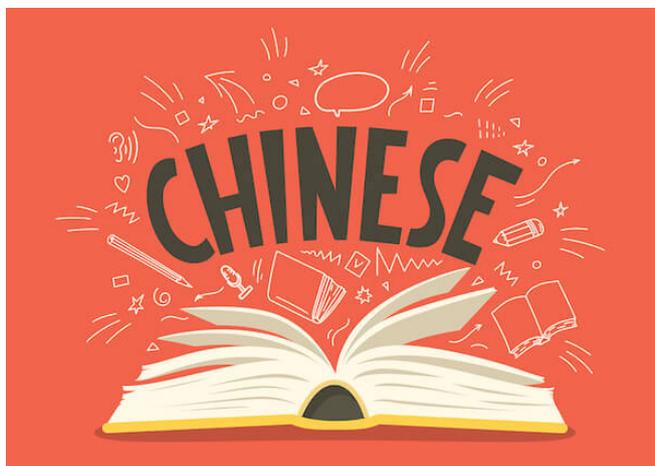
Full year course.

### ACHIEVEMENT STANDARDS WILL COVER:

- Speaking
- Listening
- Writing
- Reading
- Cultural Awareness

### LEARNING AREAS:

Chinese



Contact for further information: **Mrs Elizabeth Kennedy**

## 13COM - COMMUNICATIONS - LEVEL 3

### COURSE DESCRIPTION:

This course is designed to give students an insight into career directions, workplace communication skills, workplace writing development and enhancing personal written and oral capabilities

### HOW LONG IS THE COURSE?

Half or Full year course.

### ACHIEVEMENT STANDARDS (9 CREDITS FOR HALF YEAR, POSSIBLE 15 FOR FULL YEAR) WILL COVER:

- Interviewing in informal situations
- Writing in plain English
- Oral instructions in the workforce
- Speaking to a known audience in predictable situations
- Business correspondence to convey complex ideas and/or information

### LEARNING AREAS:

Communication English, Employment Studies

Contact for further information: **Brendan Biggs**



## **COURSE DESCRIPTION:**

This course is designed to give students an insight into Music recording or film career directions, collaborative communication skills, script writing development and enhancing digital film making and music creation capabilities.

## **ACHIEVEMENT STANDARDS (POSSIBLE 18 FOR FULL YEAR) WILL COVER:**

- Investigation of film and music genres
- Creation of plans for collaborative works
- Script development
- Practical filming and editing
- Music composition creation and development

## **COSTS:**

\$80.00

## **LEARNING AREAS:**

Music & Visual Arts

**ENQUIRIES TO:** Ben Crosson or Vincent Raj

# 12DRA - DRAMA - LEVEL 2

## **COURSE DESCRIPTION:**

This class is largely performance based. We work with learning scripted characters in small groups, larger productions, writing our own scripts and devised performances. This course is designed to further students' understanding of group dynamics, work on building confidence, and develop communication skills. We use theatre as the medium and can accommodate those that are interested in theory as well as those of a more practical bent. This is a literacy rich subject.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT/UNIT STANDARDS**

- Using theatre features in performance
- Devise and perform
- Script Writing
- Major Performance
- PAT – Design and Build a Prop or Set

## **LEARNING AREAS:**

Drama

Entertainment and Event Technology and Operations

Contact for further information: **Ms Smith**

# 13DRA - DRAMA - LEVEL 3 - UE APPROVED

## **COURSE DESCRIPTION:**

This course is designed to carry on from Level 2. We work with scripts and learn about the use of theatre techniques through performance, writing our own scripts, and devising a performance. Level 3 can include monologues, set design, costume work and a major performance. This is a literacy rich subject and can be a UE circle. Drama is highly recommended for those looking at law or psychology, but is also useful for anyone who wants to improve their communication skills.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS MIGHT COVER**

- Theatre Features
- Write a 1 act play
- Major Performance
- Devise and perform a drama

## **LEARNING AREAS:**

Drama

Entertainment and Event Technology and Operations

Contact for further information: **Ms Smith**

## 12DSN - DESIGN - LEVEL 2

### **COURSE DESCRIPTION:**

This course is designed to give students an insight into a graphic design career direction. This involves visual literacy and communication skills, iterative design conceptualization and development and enhancing digital media creation capabilities.

### **HOW LONG IS THE COURSE?**

Full year course.

### **ACHIEVEMENT STANDARDS (POSSIBLE 20 CREDITS FOR FULL YEAR) WILL COVER:**

- Investigation and application of design genres
- Creation of design briefs
- Creation of concepts
- Concept developments
- Practical image and typographic creation and editing
- Brand creation and development

### **COST**

\$140.00

### **LEARNING AREAS:**

Visual Arts

Contact for further information: **Mr Vincent Raj**

## 13DSN - DESIGN - LEVEL 3 - UE APPROVED

### **COURSE DESCRIPTION:**

This course is designed to give students an insight into a graphic design career direction. This involves visual literacy and communication skills, iterative design conceptualization and development and enhancing digital media creation capabilities.

### **HOW LONG IS THE COURSE?**

Full year course.

### **ACHIEVEMENT STANDARDS (POSSIBLE 22 CREDITS FOR FULL YEAR) WILL COVER:**

- Investigation and application of design genres
- Creation of design briefs
- Creation of concepts
- Concept developments
- Practical image and typographic creation and editing
- Brand creation and development

### **COST**

\$140.00

### **LEARNING AREAS:**

Visual Arts

Contact for further information: **Mr Vincent Raj**



### **COURSE DESCRIPTION:**

This course enables students to develop their knowledge base in the three critical areas of the subject. These are designing products, architectural solutions and media presentation of their ideas.

Key difference from the year 11 course is the inclusion of all modes of media and communication. Students are not restricted to free hand sketch. The ideas can be computer generated and use of a variety of solutions is encouraged.

### **The two focus areas for next year will be:**

**Product Design** centered around the year 12 course

**Spatial Design** centered around the year 13 course

### **HOW LONG IS THE COURSE?**

Full year course.

### **ACHIEVEMENT STANDARDS (YEAR 12 & 13) WILL COVER:**

- Brief development
- Product design
- Spatial Design
- Initiating ideas
- CAD designs
- Presentation

### **LEARNING AREAS:**

RMT, DVC Design

Contact for further information: **Mr Shane Reddy**

# 12ENG - ENGLISH - LEVEL 2

## **COURSE DESCRIPTION:**

This course is designed to assist students to develop their understanding of written, oral and visual text. The emphasis will be on the power of language in a modern world. In addition to writing, there are opportunities to explore and articulate your ideas verbally through speeches, presentations, debates, seminars, and podcasts.

The course aims to give students the opportunity to gain the English criteria for university entry.

## **HOW LONG IS THE COURSE?**

Full year course, 18 Credits.

## **ACHIEVEMENT STANDARDS (18 CREDITS FOR FULL YEAR) WILL COVER**

In investigation into the social implications of the way ideas are presented to us to influence opinion – social media, fake news, film, media

- An individually chosen project which will allow you to select your own viewing and reading focus and select ways to demonstrate your learning and responses - writing, podcasts, documentary making and visual presentations
- Analysis of film and written text in real-world situations
- Creation of written, visual and/or oral texts
- Response to social and ethical issue

## **LEARNING AREAS:**

English

Contact for further information: **Mrs Maureen Gaffaney**

# 13ENG - ENGLISH - LEVEL 3 - UE APPROVED

## **COURSE DESCRIPTION:**

Description automatically generated English is optional at Year 13. Students are encouraged to create a personalised course of study from a range of standards to follow their own interests and develop the skills they will need for life and/or further study. U.E Literacy can be gained as well as a U.E circle of 14 credits.

## **HOW LONG IS THE COURSE?**

Half or Full year course.

## **ACHIEVEMENT STANDARDS (9 HALF OR 15 CREDITS FOR FULL YEAR) WILL COVER:**

- Analysis of film and written text in real-world situations
- Creation of written, visual and oral texts
- Response to social and ethical issue
- Appreciation of the power of language and its capacity to influence opinion
- An overview of the history of philosophy and its impact on literature

## **LEARNING AREAS:**

English

Contact for further information: **Mrs Maureen Gaffaney**



## **COURSE DESCRIPTION:**

This course is designed for students who are considering employment options in the near future. The course is designed to give students an insight into career directions, budgeting, employment rights, the law and gaining and keeping a job.

## **ACHIEVEMENT STANDARDS (20 CREDITS FOR FULL YEAR PLUS EXTERNAL COURSE) WILL COVER:**

- Health and safety
- Hazard Identification
- How to look for a job
- Customer service skills
- Renting, tax, driving, insurance and law and order
- Possibility to be involved in work experience: Warehouse, Countdown and Warehouse Stationary

## **ACHIEVEMENT STANDARDS**

Communication English & Employment Studies

**ENQUIRIES TO:** Mr Brendan Biggs



## **COURSE DESCRIPTION:**

This course is designed for English Language Learners (ELL) students for whom the existing mainstream English courses are not suitable. It aims to improve reading, writing, speaking, and listening skills while students are working towards ELL credits. This course is NZQA based and contains ELL credits at Level 1, 2 and 3. These can also be used with the same levels of NCEA.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS:**

- Year 12 are offered a mixture of Level 2 and 3 Standards
- Year 13 are offered Level 3 ESOL Unit Standards and ESOL level 4 EAP standards (Level 2 literacy equivalent for university entrance).
- IELTS will be offered if and where necessary
- TOEFL will be offered if and where necessary

**ENQUIRIES TO:** Mrs Elizabeth Kennedy

## COURSE DESCRIPTION:

If you are interested in the future of our planet then this is the subject for you.

The course will focus on Sustainability and the way in which humans interact with our planet at a local, national, and global scale. Not only will we look at what changes are occurring, but what we can do to potentially solve some of the threats to humanity.

## HOW LONG IS THE COURSE?

Full year course.

## ACHIEVEMENT STANDARDS (15 CREDITS):

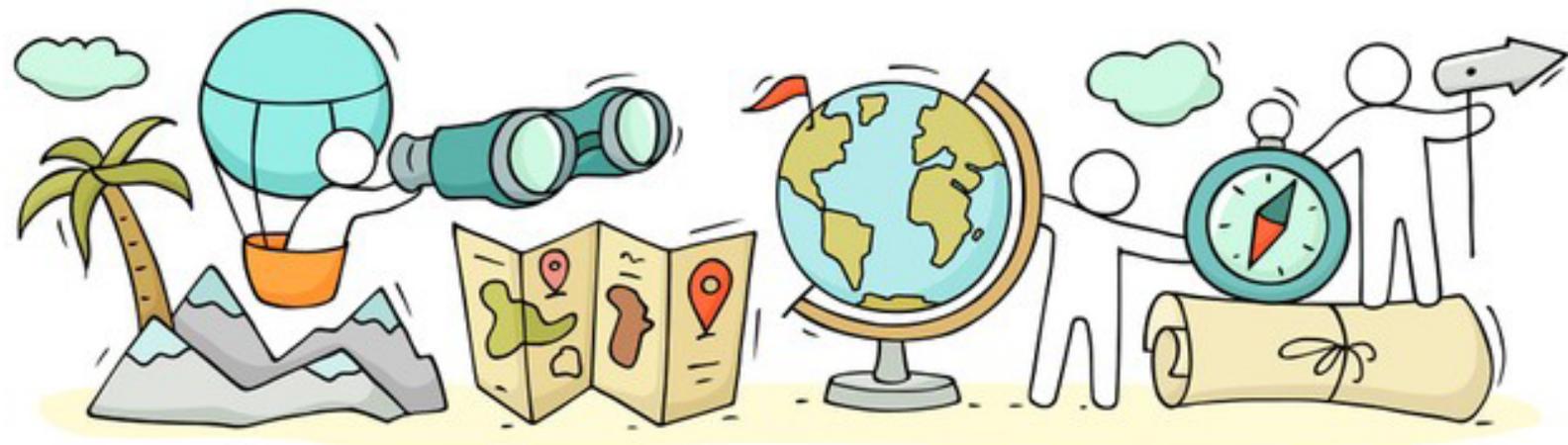
- Geographic Research.
- Global Studies.
- Geographic Issues.
- Sustainability.
- Geographic Skills and Application.

## POSSIBLE CAREER PATHS:

- Commercial/residential surveyor.
- Environmental consultant.
- Disaster recovery planner.
- Planning and development surveyor.
- Secondary school teacher.
- Social researcher.
- Town planner.
- Journalist.
- Environmental lawyer.
- Landscape architect.
- Emergency planner.



**ENQUIRIES TO:** Mr SeYe Chan, Mr Andrew Strachan or Mr Robbie Lange.





## **COURSE DESCRIPTION:**

This course follows on from Level 2 Geography and Sustainability. The focus is on managing a sustainable future and analysing the relationship between economic, environmental, and social factors. Each standard looks at real-world issues that are happening right now, at either the local, national, or global scale. Anyone with an interest in the challenges facing the future of our planet should consider this class.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS (15 CREDITS):**

- Geographic Research.
- Global Studies.
- Geographic Issues.
- Sustainability.
- Geographic Skills and Application.

## **POSSIBLE CAREER PATHS:**

- Commercial/residential surveyor.
- Environmental consultant.
- Disaster recovery planner.
- Planning and development surveyor.
- Secondary school teacher.
- Social researcher.
- Town planner.
- Journalist.
- Environmental lawyer.
- Landscape architect.
- Emergency planner.



**ENQUIRIES TO:** Mr SeYe Chan.

## 12HEA - HEALTHY COMMUNITIES - LEVEL 2

### **COURSE DESCRIPTION:**

Healthy Communities is a study of the human body systems and how they relate to the science of biomechanics and human body processes.

You should consider this course if you are interested in a career in the sports coaching/ fitness industry. This course endeavours to give you a taste of all aspects of Human Biology so you can discover which areas of the subject interest you.

Studying Health sport science is recommended if you are interested in careers such as, Physiotherapy, Biochemistry, Physiology and Physical Education.

### **HOW LONG IS THE COURSE?**

Full year course, 18 Credits.

### **ACHIEVEMENT STANDARDS**

Eighteen credits internally assessed based on practical work and research.

### **COSTS**

TBC may involve a day at the sport science Lab at UC or Lincoln.

\$30 for education perfect or use of I2 sci pad resources.

### **LEARNING AREAS:**

Health

Contact for further information: **Mr Chris Leader or Mr Tim Muir**

## 13HEA - HEALTHY COMMUNITIES - LEVEL 3

### **COURSE DESCRIPTION:**

Healthy communities is a holistic approach to health and wellbeing that uses and develops students critical thinking and research skills to explore attitudes, values, and knowledge of self, others and society across a range of health specific topics. The emphasis is placed on looking at real world and current societal health issues. with a key focus on lifelong health and wellbeing in Aotearoa New Zealand.

### **HOW LONG IS THE COURSE?**

Full year course, 17-21 Credits.

### **LEARNING AREAS**

Health, Physical Education and Home Economics

### **CAREER PATHWAYS**

- Sport & Recreation Industry
- Health Sciences & Medical
- Social Services and Health
- Government and Policy

Contact for further information: **Mr Chris Leader or Mr Tim Muir**

# 12REO - KAUPAPA MĀORI - LEVEL 2

## **COURSE DESCRIPTION / WHAKAĀHUATANGA AKORANGA:**

This course aims to extend on what has already been learnt at Level 1. There are also Māori Performing Arts standards that are used to further language, cultural knowledge and experience. This course enables students to gain an understanding of the Māori language, culture and heritage, which can make it a subject of value to many employers. It has the potential to lead to occupations in teaching, tourism, recreation and a variety of government agencies.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS / NGĀ ARA MAHI**

- Waihanaga tuhinga
- Kōrero
- Pānui
- Whakarongo
- Karakia – Traditional & Contemporary
- Man made and traditional Māori attractions
- Hui Mārena

## **CAREER PATHWAYS**

Teaching, Social & community services, Primary industries and Service industry.

Contact for further information: **Mrs Marcelle Leo'o**

# 13REO - KAUPAPA MĀORI - LEVEL 3 - UE APPROVED

## **COURSE DESCRIPTION / WHAKAĀHUATANGA AKORANGA:**

This course aims to extend on what has already been learnt at Level 2. There are also Māori Performing Arts standards that are used to further language, cultural knowledge and experience. This course enables students to gain an understanding of the Māori language, culture and heritage, which can make it a subject of value to many employers. It has the potential to lead to occupations in teaching, tourism, recreation and a variety of government agencies.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS / NGĀ ARA MAHI**

- Waihanaga tuhinga
- Kōrero
- Pānui
- Whakarongo
- Karakia – Traditional & Contemporary
- Man made and traditional Māori attractions
- Hui Mārena

## **CAREER PATHWAYS**

Teaching, Social & community services, Primary industries and Service industry.

Contact for further information: **Mrs Marcelle Leo'o**



## **COURSE DESCRIPTION:**

This course aims to develop learner's understanding of concepts and techniques drawing from numbers, geometry, network, trigonometry, and probability to solve applied problems. Students extend their mathematical skills in ways that apply to practical problem-solving and mathematics modelling in everyday contexts. A problem-based approach is integral to the development of mathematical skills and the associated key ideas in this subject.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS (15 CREDITS)**

- Co-ordinate Geometry (Internal)
- Trigonometry (Internal)
- Inference (Internal)
- Network (Internal)
- Probability (External)

## **POSSIBLE CAREER PATHS:**

- Commercial/residential surveyor.
- Real Estate/Property management
- Emergency planner.
- Electrician
- Registered Nurse
- Police Officer
- Early Childhood Teacher
- Diesel mechanic
- Plumber
- Warehouse/logistics
- Transport industry

**ENQUIRIES TO:** Mr Jason Wang / Mr Ben Rapson

## COURSE DESCRIPTION:

This course is designed for students wanting to progress to Calculus. This course consists of further work in algebra, co-ordinate geometry, and trigonometry, as well as an introduction to calculus. It is intended that students will develop their ability to manipulate algebraic expressions and set out logical arguments as well as gain wider experience in graphical and computational techniques. Essentially the course is an introduction to advanced mathematics.

## HOW LONG IS THE COURSE?

Full year course.

## ACHIEVEMENT STANDARDS

Students will work towards five Achievement Standards during this course. These standards will total 18 credits towards NCEA Level 2. Three Standards will be internally assessed and be worth 9 credits. Two Standards will be externally assessed and be worth 9 credits. External assessment will take the form of a final exam. In preparation for this there are several topic tests and examinations during the year.

Co-ordinate Geometry, Graphs, Trigonometry, Algebra & Calculus.

## PRE-REQUISITES:

Students should have achieved at least 14 Level 1 credits, with at least achieved with achievement in the Algebra Standards (AS1.4 and 1.2).

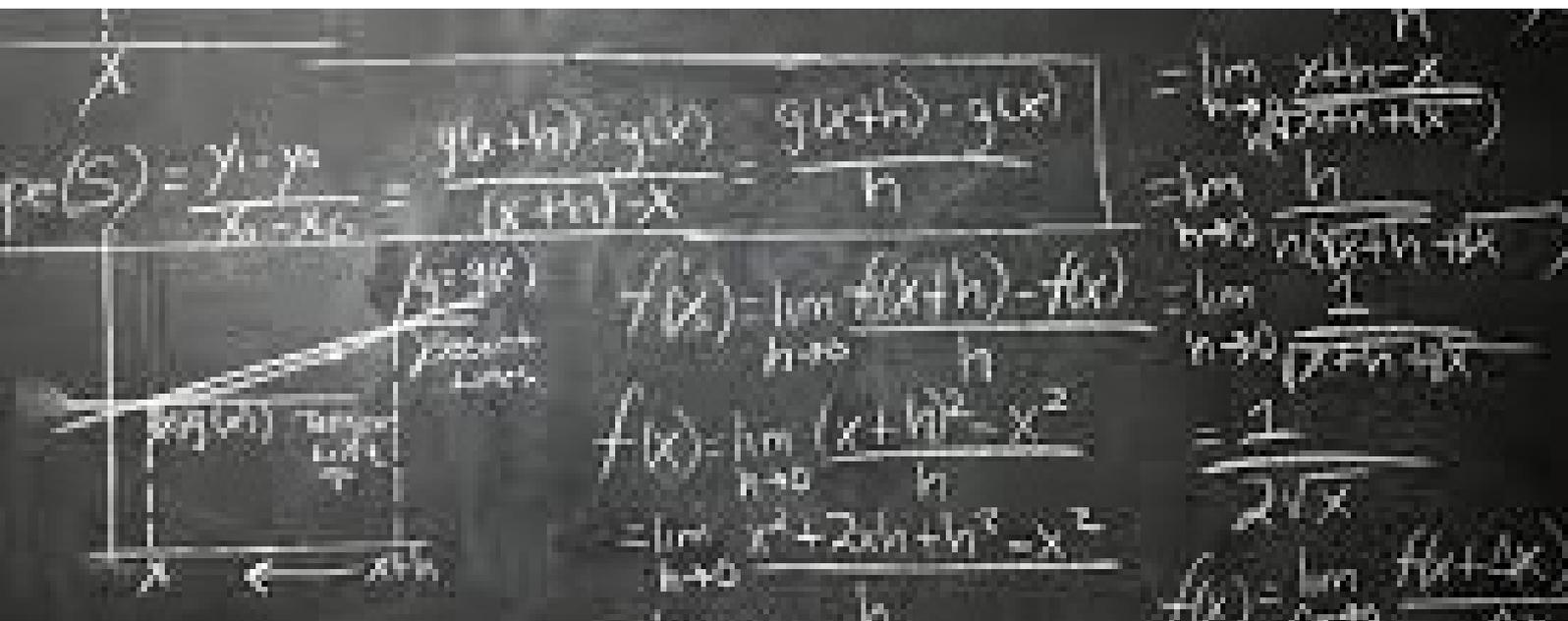
## POSSIBLE CAREER PATHS:

Web designer, Engineer, Builder.

## COSTS:

A graphic calculator is required for this course.

**ENQUIRIES TO:** Mrs Chey



## **COURSE DESCRIPTION:**

This course is appropriate for students interested in the continued study of Mathematics, the Physical Sciences, Engineering, Economics, and in general, any field where analysis is an important tool. As well as some topics studied in Year 12, new work is introduced on complex numbers, differential equations, and practical examples of calculus.

Mathematics with Calculus is complementary to the Statistics course. The course may be taken separately but students who wish to continue the study of Mathematics in Commerce, Science, Engineering, and other related fields are advised to take both. Students intending to enrol in any Mathematics courses at the University of Canterbury should pass both Calculus and Statistics in Year 13.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS**

Students will study toward four Achievement Standards during this course. These standards will total 20 credits towards NCEA Level 3. One standard will be internally assessed and be worth 3 credits. Three Standards will be externally assessed and be worth 17 credits. External assessment will take the form of a final exam. In preparation for this there are several topic tests and examinations during the year. A minimum of 14 credits is deemed a pass in this subject for tertiary purposes.

It will include:

- Simultaneous Equation
- Complex Number
- Differentiation
- Integration

## **PRE-REQUISITES:**

13 Mathematics credits at Level 2 from Algebra, Graphs and Calculus Methods, with at least a Merit in 2 of these standards.

## **COSTS:**

A graphic calculator is required for this course.

**ENQUIRIES TO:** Mrs Chey

## COURSE DESCRIPTION:

Statistics is the science and also the art of learning from data. As a discipline it is concerned with the collection, analysis, and interpretation of data, as well as the effective communication and presentation of results relying on data. Statistics lies at the heart of the type of quantitative reasoning necessary for making important advances in the science, such as medicine and genetics, and for making important decisions in business and public policy.

## HOW LONG IS THE COURSE?

Full year course.

## ACHIEVEMENT STANDARDS (16 CREDITS)

Time Series Data Analysis (Internal)

Bi-variate Data Analysis (Internal)

Inference Analysis (Internal)

Probability Concept (External).

## CAREER PATHS:

Marketing Researcher

Financial Analyst

Quantity Surveyor/Cost Estimator

Planner/surveyor.

Secondary school teacher.

Text BoxText BoxSocial researcher.

Database Administrator

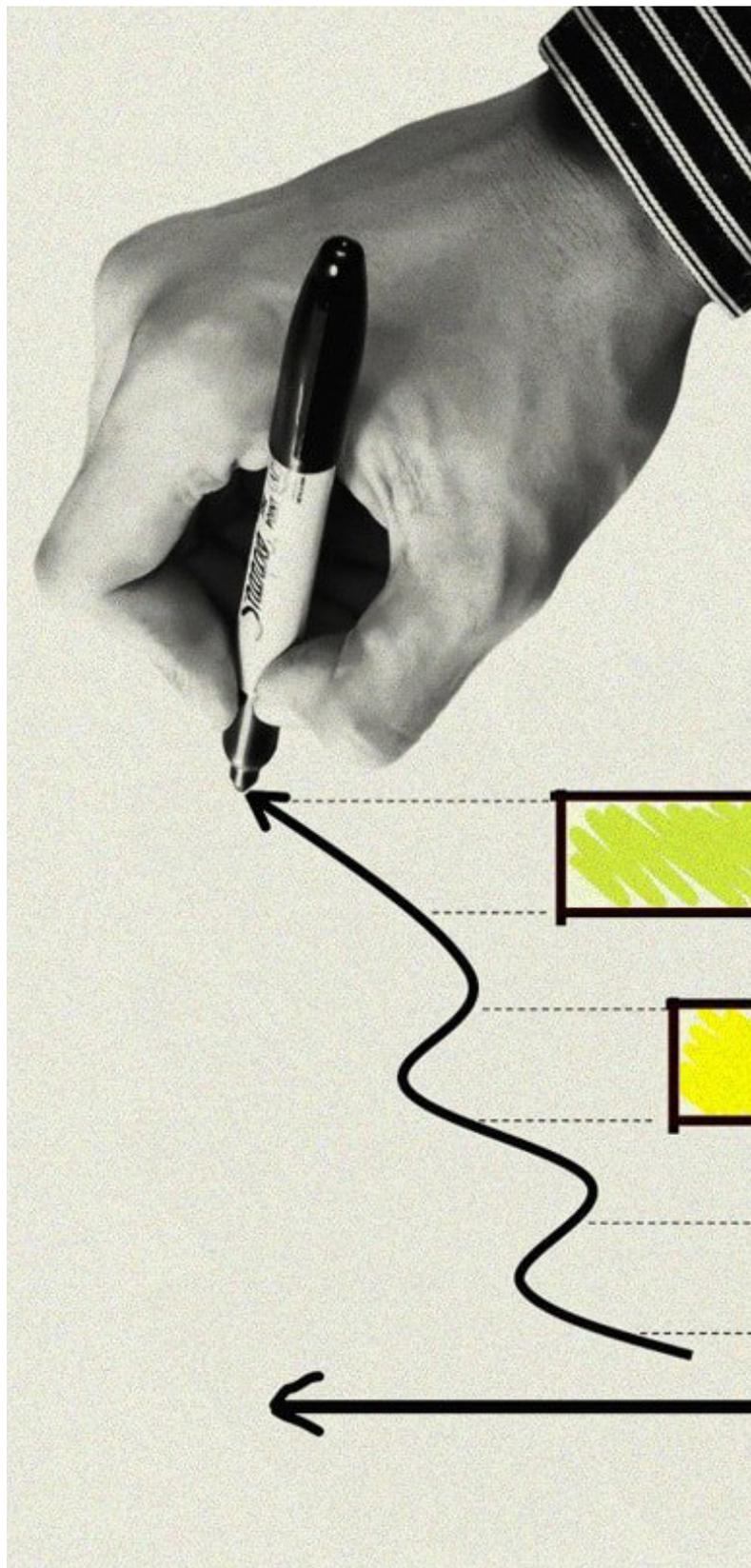
Data Scientist

Software engineer.

Accountant

Stock exchange market trader

**ENQUIRIES TO:** Mr Jason Wang



# 12MUS - MAKING MUSIC - LEVEL 2

## COURSE DESCRIPTION:

Largely practical class introducing students to skills they need to plan, prepare and participate in a range of musical projects. Song writing, recording, producing and performing skills are all covered. Students have the opportunity to 'mix and match' standards in this course that are tailored to individual needs for success.

## HOW LONG IS THE COURSE?

Full year course, 14+ Credits.

## ACHIEVEMENT STANDARDS (19 CREDITS FOR FULL YEAR) WILL COVER

Students to select a combination 14+ credits. Credits available:

- Music recording and production (10)
- Songwriting and composition. (6)
- Group and solo performance (10)
- NZ music project (4)
- Theory exam (optional) (4)

## LEARNING AREAS:

Music, Sound Technology

Contact for further information: **Mr Ben Crosson**

# 13MUS - MAKING MUSIC - LEVEL 3 - UE APPROVED

## COURSE DESCRIPTION:

Largely practical class introducing students to skills they need to plan, prepare and participate in a range of musical projects. Song writing, recording, producing and performing skills are all covered. Students have the opportunity to 'mix and match' standards in this course that are tailored to individual needs for success.

## HOW LONG IS THE COURSE?

Full year course, 14+ Credits.

## ACHIEVEMENT STANDARDS (19 CREDITS FOR FULL YEAR) WILL COVER

Students to select a combination 14+ credits from a range including:

- Music recording and production (12)
- Song writing and composition. (16)
- Group and solo performance (12)
- Research passion project (6)
- Theory exam (optional) (4)

## LEARNING AREAS:

Music, Sound Technology

Contact for further information: **Mr Ben Crosson**

## CAREER PATHS

Tertiary music/performing arts study

Producing, recording and sound engineering

Singer/Songwriter/performer

## **COURSE DESCRIPTION:**

This course has been designed to develop self-confidence, communication, perseverance and leadership in an outdoor environment. The course involves Skiing, tramping, mountain biking, completing a Cycle Trail, orienteering, camping and 1st aid. You will also get the opportunity to explore leadership in sport and the outdoors. The course is designed to challenge those who are interested in sport management, coaching and leadership in the outdoors. The course is multi level but you can only participate in it for one year.

## **HOW LONG IS THE COURSE**

Full year Course

## **ACHIEVEMENT STANDARDS**

The final number of Unit and Achievement standards will be finalized upon confirmation of group numbers. Should include:

- Evaluate leadership strategies that contribute to the effective functioning of a group.
- Examine the implementation and outcome(s) of a physical activity event or opportunity
- Apply knowledge of basic anatomy to the performance of sport skills
- Demonstrate knowledge of basic skills and rules at a beginner level for a sport
- Analyse group processes in physical activity
- Complete a cycle tour
- Experience camping
- Gather and apply weather info to an outdoor activity
- Demonstrate personal development through ABL activities
- Experience day tramps
- Complete white & yellow orienteering courses
- Mountain bike on Intermediate to Expert terrain

## **POSSIBLE CAREER PATHWAYS:**

Sport and Recreational Management, Sport Coaching, Event Management, Personal Training, Outdoor Instructor, Sports Manager, Teacher and Referee.

## **INHERITED RISK DISCLOSURE:**

It has to be mentioned that certain aspects of this course include an element of risk. For all activities risk management procedures are in place to ensure the safety of all students but by law it is important parents and students are aware that a course of this nature requires students to participate in certain activities where there will be some elements of risk.

## **COSTS:**

\$500.00

**ENQUIRIES TO:** Mr Blair Scadden or Mr Timothy Muir

# 12PAI - PAINTING - LEVEL 2

## **COURSE DESCRIPTION:**

This course is designed to give students an insight into a fine arts practice or art appreciation career direction. This involves visual literacy and communication skills, iterative idea generation, composition development and enhancing traditional media creation capabilities.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS (POSSIBLE 20 CREDITS)**

- Investigation and application of compositional conventions
- Creation of an investigative theme
- Creation of ideas based on established practice
- Practical skill development
- Practical image and creation
- Thematic creation and development

## **COSTS:**

\$140.00

## **LEARNING AREAS:**

Visual Arts & Painting

Contact for further information: **Mr Daniel Seelen**

# 13PAI - PAINTING - LEVEL 3 - UE APPROVED

## **COURSE DESCRIPTION:**

This course is designed to give students an insight into a fine arts practice or art appreciation career direction. This involves visual literacy and communication skills, iterative idea generation, composition development and enhancing traditional media creation capabilities.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS (POSSIBLE 22 CREDITS)**

- Investigation and application of compositional conventions
- Creation of an investigative theme
- Creation of ideas based on established practice
- Practical skill development
- Practical image and creation
- Thematic creation and development

## **COSTS:**

\$140.00

## **LEARNING AREAS:**

Visual Arts & Painting

Contact for further information: **Mr Daniel Seelen**

# 12PGD - PERSONAL GROWTH AND DEVELOPMENT



## **COURSE DESCRIPTION:**

It is designed to developed capability in our young men. It is designed to develop soft skills like positive mental health, resilience, overcoming adversity and sexual education and many other topics. We also include Financial Literacy and grow study skills. We delve deeper into understanding our online profile and create good time management habits.

## **HOW LONG IS THE COURSE?**

Full year course (Compulsory).

## **LEARNING AREAS:**

Health, Physical Education

Contact for further information: **Mr Paul Burton**

# 12PHE - PHYSICAL EDUCATION - LEVEL 2

## **COURSE DESCRIPTION (FULL YEAR):**

This course follows on from Level 1 Physical Education. It provides students with the opportunity to form a more holistic opinion on the importance of physical education and physical activity for themselves and society. The course involves performing a range of practical activities and reviewing individual skills in these activities from a biophysical (biomechanical and anatomical) point of view. Students will also learn and demonstrate social responsibility in practical tasks and use action research to investigate the significance of a large sporting event.

## **ACHIEVEMENT STANDARDS**

Level Two NCEA Physical Education is 100% internally assessed, with internal and external moderation. The assessment is made up of ICT, assignments and practical assessments.

- Examine the role and significance of physical activity in the lives of young people in New Zealand
- Demonstrate understanding of how and why biophysical principles relate to the learning of physical skills
- Demonstrate understanding of the application of biophysical principles to training for physical activity
- Perform a physical activity in an applied setting
- Examine the significance for self, others and society of a sporting event, a physical activity, or a festival
- Consistently demonstrate social responsibility through applying a social responsibility model in physical activity

## **LEARNING AREAS:**

Sport and Recreational Management, Sport Coaching, Event Management, Personal Training, Outdoor Instructor, Sports Manager, Teacher and Referee.

Contact for further information: **Mr Timothy Muir**



## **COURSE DESCRIPTION (FULL YEAR):**

This course has a strong emphasis on the science of quality movement and the effect of a performance enhancing programme has on an individual's motor skill ability. This course also looks at quality research around the current culture of physical activity in our society and asks the students to take action towards increasing physical activity with a specific group of people. The course also adapts to a more practical nature of the new level 3.

## **ACHIEVEMENT STANDARDS**

Assessment is 100% internally assessed, with internal and external moderation. The assessment is made up of ICT, assignments and practical assessments.

Analyse a physical skill performed by self or others

Evaluate the effectiveness of a performance improvement program

Demonstrate quality performance of a physical activity in an applied setting

Examine a current physical activity event, trend, or issue and its impact on New Zealand society

## **POSSIBLE CAREER PATHWAYS:**

Sport and Recreational Management, Sport Coaching, Event Management, Personal Training, Outdoor Instructor, Sports Manager, Teacher and Referee.

Contact for further information: **Mr Timothy Muir**

# 12PHO - PHOTOGRAPHY - LEVEL 2

## **COURSE DESCRIPTION:**

This course is designed to give students an insight into a fine arts practice or appreciation career direction. This involves visual literacy and communication skills, iterative idea generation, composition development and enhancing photographic media creation capabilities.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS (POSSIBLE 20) WILL COVER**

- Investigation and application of compositional conventions
- Creation of an investigative theme
- Creation of ideas based on established practice
- Practical skill development
- Practical image and creation
- Thematic creation and development

## **LEARNING AREAS:**

Visual Arts & Photography

## **COSTS:**

\$140.00

Contact for further information: **Miss Rachael Fowler**

# 13PHO - PHOTOGRAPHY - LEVEL 3 - UE APPROVED

## **COURSE DESCRIPTION:**

This course is designed to give students an insight into a fine arts practice or appreciation career direction. This involves visual literacy and communication skills, iterative idea generation, composition development and enhancing photographic media creation capabilities.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS (POSSIBLE 20) WILL COVER**

- Investigation and application of compositional conventions
- Creation of an investigative theme
- Creation of ideas based on established practice
- Practical skill development
- Practical image and creation
- Thematic creation and development

## **LEARNING AREAS:**

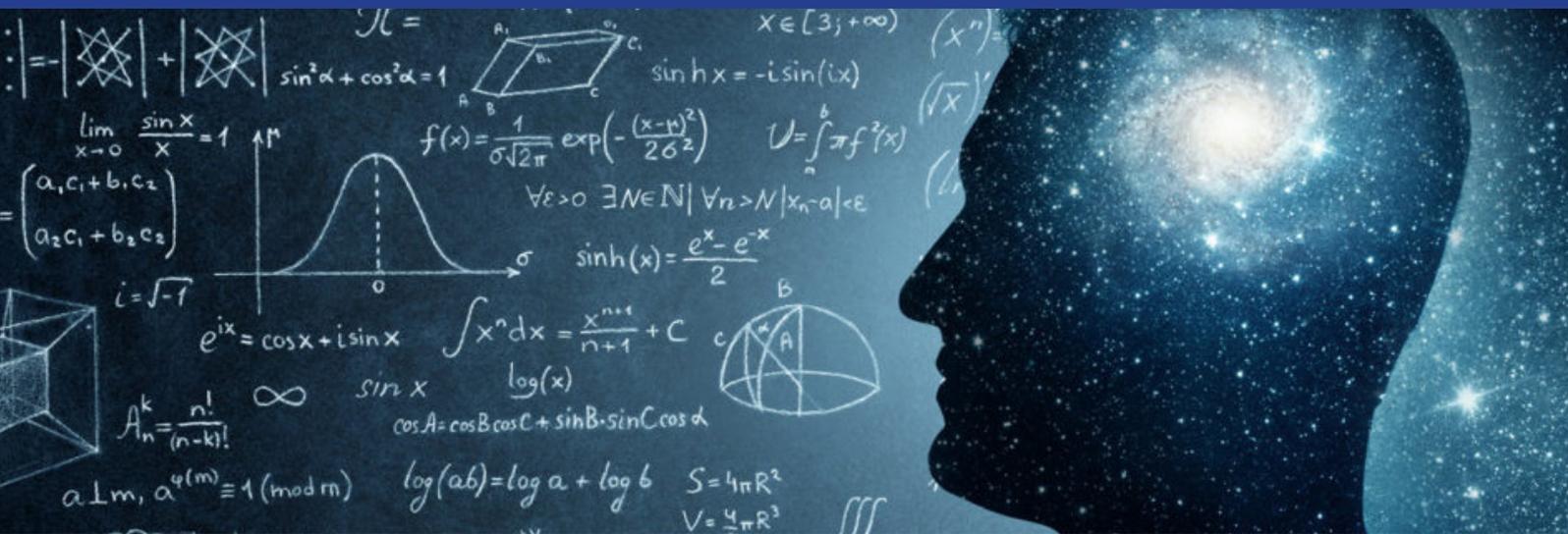
Visual Arts & Photography

## **COSTS:**

\$140.00

Contact for further information: **Miss Rachael Fowler**

# 12PHY - PHYSICS - LEVEL 2



## COURSE DESCRIPTION:

Physics is a basic science which explains the relationship between matter and energy, and pursues theoretical, practical and commercial applications. It lies at the very heart of our modern technological society. It includes a trip to the university to practice their radioactivity labs.

## HOW LONG IS THE COURSE

Full year course.

## COSTS

- Workbook approx. \$30 optional but recommended
- University field trip term 2 - \$10 (Nuclear Physics Unit)

## INTERNALS (10 CREDITS)

- Carry out a practical physics investigation that leads to a non-linear mathematical relationship (4 credits)
- Demonstrate understanding of atomic and nuclear physics (3 credits)
- Demonstrate understanding of physics relevant to a selected context (optional 3 credits)

## EXTERNALS (12 CREDITS)

- Electricity and magnetism
- Demonstrate understanding of mechanics

## PRE-REQUISITES:

- Strongly advise students take Level 2 Calculus or statistics
- Level 1 Science
- 10 credits including Achieved grades in either of the following standards
- 1.1 - Practical investigation
- Science 1.1 - Mechanics

## LEARNING AREAS:

Physics, Science, Technology

**ENQUIRIES TO:** Mr Andrew Jones

## **COURSE DESCRIPTION:**

Level 3 Physics builds on the concepts introduced at Level 2 and prepares students for tertiary study in this or related disciplines. There is a considerable amount of experimental work undertaken and 13 credits can be earned internally. Students will select those appropriate to their career aspirations and ability.

## **HOW LONG IS THE COURSE**

Full year course.

## **COSTS**

- Workbook approx. \$30 optional but recommended

## **INTERNALS (10 CREDITS)**

- Carry out a practical investigation to test a physics theory relating two variables in a non-linear relationship (4 credits)
- Demonstrate understanding of Modern Physics (3 credits)
- Demonstrate understanding of physics relevant to a selected context (optional 3 credits)

## **EXTERNALS (12 CREDITS)**

- 91524 Demonstrate understanding of mechanical systems (6 credits)
- 91526 Demonstrate understanding of electrical systems (6 credits)

## **PRE-REQUISITES:**

- Level 2 Physics
- 10 credits including Achieved grades in either of the following standards:
  - Physics 2.4 - Mechanics
  - Physics 2.6 - Electricity and electromagnetism
- Level 2 calculus is strongly recommended

## **LEARNING AREAS:**

Physics, Science, Technology

**ENQUIRIES TO:** Mr Andrew Jones

# 12PRI - PRINTMAKING - LEVEL 2

## **COURSE DESCRIPTION:**

This course is designed to give students an insight into a fine arts practice or art appreciation career direction. This involves visual literacy and communication skills, iterative idea generation, composition development and enhancing traditional media creation capabilities.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS (POSSIBLE 20 CREDITS)**

- Investigation and application of compositional conventions
- Creation of an investigative theme
- Creation of ideas based on established practice
- Practical skill development
- Practical image and creation
- Thematic creation and development

## **COSTS:**

\$140.00

## **LEARNING AREAS:**

Visual Arts & Printmaking

Contact for further information: **Mr Daniel Seelen**

# 13PRI - PRINTMAKING - LEVEL 3 - UE APPROVED

## **COURSE DESCRIPTION:**

This course is designed to give students an insight into a fine arts practice or art appreciation career direction. This involves visual literacy and communication skills, iterative idea generation, composition development and enhancing traditional media creation capabilities.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS (POSSIBLE 22 CREDITS)**

- Investigation and application of compositional conventions
- Creation of an investigative theme
- Creation of ideas based on established practice
- Practical skill development
- Practical image and creation
- Thematic creation and development

## **COSTS:**

\$140.00

## **LEARNING AREAS:**

Visual Arts & Printmaking

Contact for further information: **Mr Daniel Seelen**

## 12REL - RELIGIOUS STUDIES - LEVEL 2

### **COURSE DESCRIPTION:**

Level 2 RE is to enable students to study different religious traditions death rituals, develop a deeper understanding of the processes of grief and loss, explore and examine Christian Morality and to study the early Christian story.

### **HOW LONG IS THE COURSE?**

Full year course.

### **ACHIEVEMENT STANDARDS**

To analyse the Gospel of Luke

To examine the ethical principles of a religious tradition

To examine the major Religions of the World

Changes of Religious expression

Contact for further information: **Mr Tony Mullally**

## 13REL - RELIGIOUS STUDIES - LEVEL 3 - UE APPROVED

### **COURSE DESCRIPTION:**

Religious Studies at Level 3 recognises that for many students this is their final year at secondary school. Christian adulthood requires critical judgement, the ability to see issues, judge actions and decisions.

Over the past century human beings have learned to deal with major problems that have occurred as a result of societal changes and rapid advancements in technology, others occur simply because long term impact of these advances have not been considered sufficiently in terms of ethical, moral or what is socially sustainable for our planet and its occupants. More than ever, the development in human intelligence and technological advancement needs to be developed within a moral, ethical (religious) and emotional framework.

### **HOW LONG IS THE COURSE?**

Full year course.

### **ACHIEVEMENT STANDARDS**

- Analyse the meaning in a sacred text within a religious traditions
- Analyse the response of a religious traditions to a contemporary ethical issue
- Analyse the key beliefs of a religious tradition in a secular world view in relation to ultimate questions
- Analyse religious traditions in Aotearoa New Zealand

Contact for further information: **Mr Tony Mullally**

# 12/13SMO - SAMOAN - LEVEL 2/3 - UE APPROVED

## **COURSE DESCRIPTION:**

This course is made up of five areas: including spoken Samoan, cultural participation, listening to and understanding spoken Samoan as well as reading and writing in Samoan. This course aims to assist those students whose mother tongue is a Pacific Islands language. They will have the opportunity to develop and use their own language as an integral part of their schooling. This course enables students to gain an understanding of the Samoan language, culture and heritage. This subject is of value to many employers as it allows students to market themselves as a person able to train and converse with a growing Pacific workforce. It is also essential for the students' own personal understanding of their heritage, language and cultural values.

## **HOW LONG IS THE COURSE?**

Full year course.

## **ACHIEVEMENT STANDARDS (19 CREDITS FOR FULL YEAR) WILL COVER**

- Listen and Respond
- Speak and Present
- Interact
- View and Respond
- Write

## **LEARNING AREAS:**

Samoan

Contact for further information: **Miss Angela Smith or Mr Leuma Gali**

# 12/13SPT - SPORT PERFORMANCE

## **COURSE DESCRIPTION:**

This course is designed for students who have previously demonstrated a highly committed aptitude to their chosen sport and wish to develop their ability to train and compete at a high level in this sport. - Setting goals to improve personal fitness (Flexibility, Strength conditioning and Aerobic fitness) and apply correct training techniques specifically for their sport. The course will develop students' knowledge of planning and implementing training programmes, correct exercise prescription and correct use of gym equipment. Students will have to apply theory aspects to their personal training programme. All the sport improvement training sessions will have a purpose and specific training objectives. From how to demonstrate a Squat or Power Clean to how to select appropriate training loads on a treadmill or rowing machine. Formal and highly disciplined training will be demanded at all times.

This course will help you improve your levels of fitness and give you a better understanding of the types of training that will benefit you in your chosen sport.

This course will assist you in your pursuit of a career as a professional sportsman, personal trainer, sports coach, gym instructor or sports/coaching development officer

## **COSTS**

\$80 – (Covers gym membership fee and off-site trips)

Contact for further information: **Mr Johnny Leo'o**



### **COURSE DESCRIPTION:**

This course enables students to demonstrate a wider range of technological processes and abilities in a practical scenario. The year 11 course was around basic workshop processes, and the year 12 course aims to take it to the next level in terms of use of tools, machinery and equipment. Most of the work completed will be done using modern machines and processes which are inline with industry practices.

The two focus areas for next year will be :

**Cabinetry and joinery** catering for students wishing to join the building and trade industry

**Welding and fabrication** for those wanting to join the general engineering sector

### **HOW LONG IS THE COURSE?**

Full year course.

### **PRE-REQUISITES:**

Admission to the course will be at the discretion of the subject teacher. To succeed in the subject area, student should have passed either the portfolio or the Implement standard the previous year.

### **ACHIEVEMENT STANDARDS:**

Brief development, Conceptual Design, Cabinet construction, Power Tools & Hand Tools

**ENQUIRIES TO:** Mr Shane Reddy

# COURSE LINKS TO VOCATIONAL PATHWAYS



**Primary Industries  
(Food & Fibre)**

Ahumahi  
Matua



**Service  
Industries**

Ahumahi  
Ratonga



**Social & Community  
Services**

Ratonga Pāpori,  
Ratonga Hapori



**Construction &  
Infrastructure**

Te Mahi Hanga me te  
Pūtoi Hanganga



**Manufacturing &  
Technology**

Te Whakanao me te  
Hangarau



**Creative  
Industries**

Ahumahi  
Auaha

<b>BIO</b>					
<b>BUS</b>					
<b>CHE</b>					
<b>CHI</b>					
<b>COM</b>					
<b>DFS</b>					
<b>DRA</b>					
<b>DSN</b>					
<b>DVC</b>					
<b>EMP</b>					
<b>ENG</b>					
<b>GEO</b>					
<b>GRA</b>					
<b>HEA</b>					
<b>MAC</b>					
<b>MAS</b>					
<b>MAG</b>					
<b>MUS</b>					
<b>ODL</b>					



**Primary Industries  
(Food & Fibre)**

Ahumahi  
Matua



**Service  
Industries**

Ahumahi  
Ratonga



**Social & Community  
Services**

Ratonga Pāpori,  
Ratonga Hapori



**Construction &  
Infrastructure**

Te Mahi Hanga me te  
Pūtoi Hanganga



**Manufacturing &  
Technology**

Te Whakanao me te  
Hangarau



**Creative  
Industries**

Ahumahi  
Auaha

PAI						
PGD						
PHE						
PHY						
PRI						
REL						
REO						
SMO						
SPT						
TEC						

**Subject Names**

ART Visual Art  
 BIO Biology  
 BUS Business  
 CHE Chemistry  
 CHI Chinese  
 COM Communications  
 DFS Digital Film and Sound  
 Recording  
 DRA Drama Studies  
 DSN Design – Digital Art  
 DVC Design and Visual  
 Communications  
 ECO Economics

EMP Employment  
 Studies  
 ENG English  
 ESL ESOL  
 GEO Geography and  
 Sustainability  
 HEA Healthy Communities  
 MAC Maths with Calculus  
 MAS Maths with  
 Statistics  
 MAG General Mathematics  
 MUS Making Music  
 ODL Outdoor Leadership

PAI Painting  
 PGD Personal Growth  
 and Development (Y12  
 Compulsory)  
 PHE Physical Education  
 PHY Physics  
 PRI Printmaking  
 REL Religious Studies  
 (Compulsory)  
 REO Kaupapa Māori  
 SMO Samoan Language  
 SPT Sport Performance  
 TEC Technology

