

Christchurch Rudolf Steiner School

# *Senior Studies Guide*

Classes 11 and 12  
(Years 12 and 13)

for **2019**



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# Introduction

The purpose of this handbook is to help and guide you as you plan your final years at school. It contains information that you and your parents need to plan effectively so that you may make the most of the educational programmes offered.

One important outcome of your education at school is your preparedness and capacity to take up opportunities and make sound, informed choices in the world beyond school. These opportunities and the choices you make will determine the direction you take in your life, employment and career path for the next few years.

It is undoubtedly true that suitable qualifications are essential requirements for effective post school achievement and opportunity. Modern qualifications are of many different kinds and all form part of a national qualifications framework. Some are very academic and require language/literacy skills to be well developed, some are of a much more practical/hands on kind and require practical skills to be well developed, and other qualifications require a mix of capabilities.

A great deal of time and effort has been expended in discussion with the community and the other Rudolf Steiner schools in New Zealand to arrive at what we feel to be the best solution to our wish to offer a good range of courses leading to nationally recognised qualifications while maintaining the essential attributes of a Steiner school. The result is expressed in the commitment of the school to offer dual certification.

The certificates are:

- the Christchurch Steiner Certificate (CSC) at levels 1, 2 and 3
- the National Certificate of Educational Achievement (NCEA), at levels 1\*, 2 and 3

The CSC is assessed on the students' whole body of work during the year, and gives confidence that the student has fully participated in the broad and holistic education that is at the heart of a Rudolf Steiner School. The NCEA is assessed on the students' work in their chosen specialist subjects (though including English at Level 2). More detail of these certificates is given in the relevant sections.

We expect that you will leave school with the best possible qualifications that accurately reflect your abilities and aptitudes and most nearly meet your needs. You will be selecting from the range of courses that the school offers and designing a learning programme specifically for yourself. To do this well the choices you make need to be informed ones, this handbook is your guide.

***\*The NCEA Certificate at Level 1 is available to students who do not gain sufficient credits for Level 2 by the end of Class 12 (Year 13).***

# Assessment and Qualifications

## Christchurch Steiner Certificate (CSC)

The Christchurch Steiner Certificate (CSC) is a qualification that recognises the broad scope of education and the special character of the Steiner School. It is flexible, inclusive, and provides for different learning pathways for students. The Certificate is awarded on successful completion of the years work in classes 10, 11 and 12 which are designated as levels 1, 2 and 3 respectively. It includes a comprehensive record of all work undertaken by the student throughout each of the last three years of school.

To gain the certificate the student must successfully complete the following aspects

- complete to an Achievement level or above in all main lessons
- gain Achieved, Merit or Excellence in all subject classes (all subjects in class 10, and 3,4,5 or 6 specialist subjects in Class 11 and 12). A MAP grade (Minimum Acceptable Performance is available for students on the Special Education register.)
- satisfactorily engage in the NZ curriculum key competencies - managing self, relating to others, thinking, participating and contributing, using language symbols and texts
- satisfactorily participate in the annual school camp, peer support programme, leadership programme, the annual school play in Class 11 and 12, and other extra school events
- present a major year project on a subject of their choice (Class 12)

In this way the certificate encompasses the work done by the student towards NCEA (as below), as well as that more particularly relating to the school's Special Character, as a Rudolf Steiner School. This validates the pupils' participation in the rounded holistic education that Rudolf Steiner/Waldorf schools aim to provide.

The Steiner certificate will be issued with an endorsement of Merit or Excellence if the requirements for such are met (see relevant appendix). It will also be accompanied by a transcript listing the grade issued for each activity (main lesson, subject course, camp etc).

The special character elements of the CSC are quality assured through the school's internal procedures (e.g. the school's charter, annual goals, school schemes, peer appraisal). Assessment for the NCEA component is moderated by the New Zealand Qualifications Authority (NZQA).

## National Certificate of Educational Achievement [NCEA]

The following is a guideline to help you work towards receiving a National Certificate in Educational Achievement [NCEA]. When you are planning your courses for next year you will need to take in to account the amount of credits offered in each subject so you can gain your certificate for that Level. University Entrance (UE) requirements will also need to be taken in to consideration as these are different to NCEA Level 3 (see following section)

Class Ten - NCEA Level 1
<p>Class 10 students will be undertaking the Christchurch Steiner Certificate, rather than NCEA Level 1. However they will also be assessed for around 30 NCEA credits covering Literacy and Numeracy:</p> <ul style="list-style-type: none"> <li>➤ Minimum 10 credits in reading, writing (English or other approved areas)</li> <li>➤ Minimum 10 credits in numeracy (Mathematics or other approved areas)</li> </ul>
Class Eleven - NCEA Level 2
<p>Most Class 11 students will study for NCEA level 2 which require at least <b>80</b> credits:</p> <ul style="list-style-type: none"> <li>➤ <b>60</b> of which must be from courses at Level 2 or higher.</li> <li>➤ <b>20</b> credits may come from Level 1 (or above).</li> </ul> <p>Level 1 Literacy and Numeracy requirements must be met to gain NCEA Level 2. Level 1 Certificate will be available to students in Class Eleven who do not meet the requirements of Level 2.</p>
Class Twelve - NCEA Level 3
<p>Most Class 12 students will study for NCEA level 3 which also requires <b>80</b> credits:</p> <ul style="list-style-type: none"> <li>➤ <b>60</b> credits from Level 3 (or higher)</li> <li>➤ <b>20</b> credits from Level 2 or above.</li> </ul> <p>Level 1 Literacy and Numeracy requirements must be met to gain NCEA Level 3. Level 1 or 2 Certificate will be available to students in Class Twelve who do not meet the requirements of Level 2 or 3 respectively</p>
Course Endorsement
<p>Course Endorsement enables students with strong performances in individual courses to gain Excellence or Merit endorsements in those courses. Students will receive an Excellence endorsement for a course if they gain 14 credits at Excellence level in that course, while students gaining 14 credits at Merit (or Merit and Excellence) will gain a Merit endorsement. To ensure students are capable of performing in both modes of assessment, most courses require at least three of the 14 credits achieved at Merit or Excellence must be from internally assessed standards, and three from externally assessed standards. Course outlines make clear whether the course offers the possibility of endorsement. Endorsement is recorded, along with all credits achieved, on the students Record of Achievement issued by NZQA</p>
Certificate Endorsement
<p>NCEA at each level may be issued with Endorsement as Merit or Excellence.</p> <ul style="list-style-type: none"> <li>➤ Excellence: At least 50 excellence credits at the relevant certificate level or above.</li> <li>➤ Merit: At least 50 excellence or merit credits at the relevant certificate level or above.</li> </ul> <p>Credits can be accumulated over more than one year for the purposes of certificate endorsement (not for subject endorsement). In any one year a learner will be awarded an endorsed certificate only at the highest level of endorsement recognised that year. If a certificate has been issued without endorsement or with endorsement with merit, and subsequently the criteria for merit or excellence respectively are met, then NZQA will reissue the certificate with the appropriate endorsement on application and payment of a \$15 fee. The application form is available from the NZQA website, or through the school.</p>

## University Entrance

The minimum requirements for University Entrance are as follows:

- NCEA level 3
- Numeracy (10 credits at level 1 in appropriate Achievement Standards (which may or may not be specifically Mathematics standards, or in 3 specified Unit standards)
- Literacy (5 credits in writing and 5 in reading, both at Level 2 in appropriate Achievement Standards, which may or may not be specifically English standards.)
- A minimum of 14 credits at level three in each of three approved subjects. (The course outlines in this booklet make clear if the course is able to count as one of the approved subjects for UE.)

University Entrance provides for automatic entry into the University of your choice but the University also publishes details of entry criteria for **particular courses**. These criteria usually incorporate points for gaining standards at the Merit or Excellence level. This information can be acquired from the Careers Adviser or Academic Dean or via University/Polytechnic web sites. Be aware that these requirements are changing as entry becomes more competitive.

Also be aware that the provision to attend University without UE on reaching the age of 21 is currently being questioned and may not be available at all universities in the future. The 'automatic' entry to University on the basis of UE is also being set aside by some universities who are setting higher entry criteria. The main point is just to do your best!

### **Level 2 and 3 Achievement Standards that Contribute to University Entrance Literacy Requirements**

(5 Reading and 5 Writing 2018)

<b>ID</b>	<b>Subject reference</b>	<b>Title</b>	<b>Credits</b>	<b>Int/Ext</b>	<b>Reading</b>	<b>Writing</b>
91482	Art History 3.1	Demonstrate understanding of style in art works	4	EX	Y	Y
91483	Art History 3.2	Examine how meanings are communicated through art works	4	EX	Y	Y
91484	Art History 3.3	Examine the relationship(s) between art and context	4	EX	Y	Y
91485	Art History 3.4	Examine the impact of media and processes on art works	4	IN	Y	N
91486	Art History 3.5	Construct an argument based on interpretation of research in art history	4	IN	Y	N
91487	Art History 3.6	Examine the different values placed on art works	4	IN	Y	N
91488	Art History 3.7	Examine the relationship(s) between a theory and art works	4	IN	Y	N
91489	Art History 3.8	Analyse texts about art	4	IN	Y	N
91180	Art History	Examine the effects of formal	4	EX	N	Y

	2.1	elements of art works				
91181	Art History 2.2	Examine the meanings conveyed by art works	4	EX	N	Y
91182	Art History 2.3	Examine the influence of context(s) on art works	4	EX	N	Y
91184	Art History 2.5	Communicate understanding of an art history topic	4	IN	Y	N
91602	Biology 3.2	Integrate biological knowledge to develop an informed response to a socio-scientific issue	3	IN	Y	Y
91603	Biology 3.3	Demonstrate understanding of the responses of plants and animals to their external environment	5	EX	Y	Y
91604	Biology 3.4	Demonstrate understanding of how an animal maintains a stable internal environment	3	IN	Y	N
91605	Biology 3.5	Demonstrate understanding of evolutionary processes leading to speciation	4	EX	Y	Y
91606	Biology 3.6	Demonstrate understanding of trends in human evolution	4	EX	Y	Y
91607	Biology 3.7	Demonstrate understanding of human manipulations of genetic transfer and its biological implications	3	IN	Y	N
91387	Chemistry 3.1	Carry out an investigation in chemistry involving quantitative analysis	4	IN	N	Y
91389	Chemistry 3.3	Demonstrate understanding of chemical processes in the world around us	3	IN	Y	Y
91394	Classical Studies 3.1	Analyse ideas and values of the classical world	4	EX	Y	Y
91395	Classical Studies 3.2	Analyse the significance of a work(s) of art in the classical world	4	EX	Y	Y
91396	Classical Studies 3.3	Analyse the impact of a significant historical figure on the classical world	6	EX	Y	Y
91397	Classical Studies 3.4	Demonstrate understanding of significant ideology(ies) in the classical world	6	IN	Y	N
91398	Classical Studies 3.5	Demonstrate understanding of the lasting influences of the classical world on other cultures across time	6	IN	Y	N
91200	Classical Studies 2.1	Examine ideas and values of the classical world.	4	EX	Y	Y
91201	Classical Studies 2.2	Examine the significance of features of work(s) of art in the classical world.	4	EX	Y	Y
91202	Classical Studies 2.3	Demonstrate understanding of a significant event in the classical	4	IN	Y	N

		world.				
91203	Classical Studies 2.4	Examine socio-political life in the classical world.	6	EX	Y	Y
91204	Classical Studies 2.5	Demonstrate understanding of the relationship between aspects of the classical world and aspects of other cultures.	6	IN	Y	N
91594	Dance 3.7	Analyse a dance performance	4	EX	N	Y
91595	Dance 3.8	Demonstrate understanding of the development of dance in Aotearoa/New Zealand	4	EX	Y	Y
91512	Drama 3.1	Interpret scripted text to integrate drama techniques in performance	4	IN	Y	N
91514	Drama 3.3	Interpret a prescribed text to demonstrate knowledge of a theatre form or period	4	EX	Y	Y
91515	Drama 3.4	Select and use complex performance skills associated with a drama form or period	4	IN	Y	N
91516	Drama 3.5	Demonstrate understanding of the work of a drama or theatre theorist or practitioner	4	IN	Y	N
91517	Drama 3.6	Perform a substantial acting role in a significant production	5	IN	Y	N
91518	Drama 3.7	Demonstrate understanding of live drama performance	4	EX	N	Y
91519	Drama 3.8	Script a drama suitable for live performance	5	IN	N	Y
91520	Drama 3.9	Direct a drama performance	5	IN	Y	N
91213	Drama 2.1	Apply drama techniques in a scripted context.	4	IN	Y	N
91215	Drama 2.3	Discuss a drama or theatre form or period with reference to a text.	4	EX	Y	Y
91216	Drama 2.4	Perform features of a complex drama or theatre form or period.	4	IN	Y	N
91217	Drama 2.5	Examine the work of a playwright.	4	IN	Y	N
91218	Drama 2.6	Perform a substantial acting role in a scripted production.	5	IN	Y	N
91219	Drama 2.7	Discuss drama elements, techniques, conventions and technologies within live performance.	4	EX	N	Y
91220	Drama 2.8	Script a scene suitable for drama performance	4	IN	N	Y
91221	Drama 2.9	Direct a scene for drama performance	4	IN	Y	N
91410	Earth and Space Science 3.1	Carry out an independent practical Earth and Space Science investigation	4	IN	Y	Y
91411	Earth and	Investigate a socio-scientific	4	IN	Y	Y

	Space Science 3.2	issue in an Earth and Space Science context				
91413	Earth and Space Science 3.4	Demonstrate understanding of processes in the ocean system	4	EX	Y	Y
91414	Earth and Space Science 3.5	Demonstrate understanding of processes in the atmosphere system	4	EX	Y	Y
91415	Earth and Space Science 3.6	Investigate an aspect of astronomy	4	IN	Y	N
91472	English 3.1	Respond critically to specified aspect(s) of studied written text(s), supported by evidence	4	EX	Y	Y
91473	English 3.2	Respond critically to specified aspect(s) of studied visual or oral text(s), supported by evidence	4	EX	N	Y
91474	English 3.3	Respond critically to significant aspects of unfamiliar written texts through close reading, supported by evidence	4	EX	Y	Y
91475	English 3.4	Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas	6	IN	N	Y
91479	English 3.8	Develop an informed understanding of literature and/or language using critical texts	4	IN	Y	N
91098	English 2.1	Analyse specified aspect(s) of studied written text(s), supported by evidence	4	EX	Y	Y
91099	English 2.2	Analyse specified aspect(s) of studied visual or oral text(s), supported by evidence	4	EX	N	Y
91100	English 2.3	Analyse significant aspects of unfamiliar written text(s) through close reading, supported by evidence	4	EX	Y	Y
91101	English 2.4	Produce a selection of crafted and controlled writing	6	IN	N	Y
91105	English 2.8	Use information literacy skills to form developed conclusion(s)	4	IN	Y	N
91106	English 2.9	Form developed personal responses to independently read texts, supported by evidence	4	IN	Y	N
22750	English for Academic Purposes	Write a crafted text using researched material in English for an academic purpose	5	IN	N	Y
22751	English for Academic Purposes	Read and process information in English for academic purposes	5	IN	Y	N
91617	Generic Technology	Undertake a critique of a technological outcome's design	4	IN	N	Y

	3.10					
91612	Generic Technology 3.5	Demonstrate understanding of how technological modelling supports technological development and implementation	4	EX	N	Y
91613	Generic Technology 3.6	Demonstrate understanding of material development	4	EX	N	Y
91614	Generic Technology 3.7	Demonstrate understanding of operational parameters in complex and highly complex technological systems	4	EX	N	Y
91615	Generic Technology 3.8	Demonstrate understanding of consequences, responsibilities and challenges involved in technology	4	IN	Y	N
91616	Generic Technology 3.9	Demonstrate understanding of how the fitness for purpose of technological outcomes may be broadly interpreted	4	IN	Y	N
91619	Generic Technology 3.14	Demonstrate understanding of the application of a technical area to a specific field	4	IN	Y	N
91466	Home Economics 3.1	Investigate a nutritional issue affecting the well-being of New Zealand society	5	IN	Y	N
91468	Home Economics 3.3	Analyse a food related ethical dilemma for New Zealand society	5	IN	Y	N
91469	Home Economics 3.4	Investigate the influence of multinational food corporations on eating patterns in New Zealand	5	IN	Y	N
91470	Home Economics 3.5	Evaluate conflicting nutritional information relevant to well-being in New Zealand society	4	EX	Y	Y
91471	Home Economics 3.6	Analyse the influences of food advertising on well-being	4	EX	N	Y
91300	Home Economics 2.2	Analyse the relationship between well-being, food choices and determinants of health.	4	EX	N	Y
91304	Home Economics 2.6	Evaluate health promoting strategies designed to address a nutritional need.	4	EX	N	Y
91584	Mathematics and Statistics 3.12	Evaluate statistically based reports	4	EX	N	Y
91266	Mathematics and Statistics 2.11	Evaluate a statistically based report	2	IN	Y	N

91490	Media Studies 3.1	Demonstrate understanding of an aspect of a media industry	4	EX	Y	Y
91493	Media Studies 3.4	Demonstrate understanding of a relationship between a media genre and society	3	EX	Y	Y
91497	Media Studies 3.8	Write a media text to meet the requirements of a brief	3	IN	N	Y
91248	Media Studies 2.1	Demonstrate understanding of the relationship between a media product and its audience	3	EX	Y	Y
91251	Media Studies 2.4	Demonstrate understanding of an aspect of a media genre	4	EX	Y	Y
91255	Media Studies 2.8	Write developed media text for a specific target audience	3	IN	N	Y
91425	Music Studies 3.10	Research a music topic	6	IN	Y	N
91502	Physical Education 3.5	Examine a current physical activity event, trend, or issue and its impact on New Zealand society.	4	IN	Y	N
91505	Physical Education 3.8	Examine contemporary leadership principles applied in physical activity contexts	4	IN	Y	N
91527	Physics 3.7	Use physics knowledge to develop an informed response to a socio-scientific issue	3	IN	Y	N

## **Scholarship**

The school is also able to support students who wish to enter for the national Scholarship examinations.

Scholarship is fully externally assessed. Scholarship is a monetary award to recognise top students. It does not attract credits nor contribute towards a qualification but the fact that a student has gained a Scholarship appears on the Record of Achievement.

The Scholarship exams enable students to be assessed against challenging standards, and are demanding even for the most able students in each subject. Scholarship students are expected to demonstrate high-level critical thinking, abstraction and generalization, and to integrate, synthesise and apply knowledge, skills, understanding and ideas to complex situations.

There is no additional cost for New Zealand students entering for up to three subjects. There is a range of monetary awards for students who do well in Scholarship, payable while they are enrolled in a tertiary institute. Please discuss Scholarship requirements with your subject teachers.

### **Scholarship Subjects:**

Accounting

English

Agricultural and Horticultural Science	French
Art History	Geography
Biology	German
Calculus	History
Chemistry	Japanese
Chinese	Latin
Classical Studies	Media Studies
Dance	Music
Design and Visual Communication	Physical Education
Drama	Physics
Earth and Space Science	Samoan
Economics	Spanish
English	Statistics
French	Te Reo Maori
Geography	Te Reo Rangatira
German	Technology (generic) *
History	Visual Arts - Design
Japanese	Visual Arts - Painting
Design and Visual Communication	Visual Arts - Printmaking
Drama	Visual Arts - Photography
Earth and Space Science	Visual Arts - Sculpture
Economics	

\* Technology (generic) covers Biotechnology, Electronics and Control, Materials Technology, Production and Process, Food, Structures and Mechanisms, and Information and Communications Technology (ICT). Candidates will be able to submit a portfolio in one of those areas.

## Star Courses and the Gateway Programme

### STAR Courses

These courses give students an opportunity to discover and examine study pathways and participate in work-based learning experiences beyond school. Students are able to see the range of courses available on the noticeboard outside the upper school office or simply talk to the STAR coordinator (Angelika Frank-Alexander) about courses they wish to explore. Courses might include Barista, Adventure Based Learning (ABL) (for class 11), a variety of trades, Childcare, Barista, Bar and Table Service, Defensive Driving (prerequisite is a minimum of Learners License and 50 hours driving experience), Audio Engineering, First Aid, Communication and First Line Management, Journalism, Photoshop or other media program courses and many more.

- Courses are available throughout the year to classes 10, 11 and 12
- Students are encouraged to participate in those courses in an after school or holiday programme situation.
- Senior students are entitled to one STAR course of choice throughout the year.
- Senior students on Job Search receive assistance in their preparation for leaving school, including attending STAR courses and Work Experience placements, sometimes leading up to Youth Training options.

*A footnote about STAR courses:*

Schools receive a budget to fund STAR courses and can cost the school up to \$150.00 per student per day. Once a commitment has been made to attend a STAR course it must be kept. Any absence from the course is to be covered by a note from a caregiver. If the absence is 3 days or more, a doctor's certificate is required. In the event of an unexplained

non attendance, it is the responsibility of the student and family to reimburse the fees in full to the school. An abuse of this privilege (including not returning home work, related to a STAR course, in a timely fashion) means that the student forfeits the right to attend future STAR courses. For more information about STAR courses please contact the STAR Coordinator, Angelika Frank-Alexander or better still make an appointment to see her: [angelikaf@ch.steiner.school.nz](mailto:angelikaf@ch.steiner.school.nz)

## **The Gateway Programme**

In 2019 the Christchurch Rudolf Steiner School is offering 6 students the opportunity to participate in the 'Gateway Programme' which enables students to look at a structured workplace learning opportunity in an industry of their choice. The learning is hands-on and practical and assessment is done in the workplace for industry-specific unit and achievement standards which contribute to NCEA. It typically involves students going on placement in their chosen profession for one day per week. Preference is given to students who have a proven track record of being able to keep up with the work. This includes Main Lesson work, where the student has to undertake to complete the requirements in a timely fashion.

In the past 9 years we had students exploring the building and construction, plumbing and drain laying, conservation, early childhood, fitness, retail certificate, outdoor education leader, Swimm teacher, Security guard and hospitality industries with great success. Typically the students spend one day per week on work placement in the chosen industry. Before the start of placement the students may be enrolled in a 2 day health & safety in employment course. Students may also elect to participate in other courses offered around their placement throughout the year.

The Criteria for participation are as follows:

- That the Gateway placement is necessary for the student to proceed on their chosen career path, or their ability to do so would be significantly reduced if the placement is not made
- That the student "have a strong interest in a particular industry or career direction"
- That the student "be work ready "
- That the student "be reliable with a good attendance record"
- That the student undertakes to keep up with their school work, including the Main Lesson work.
- That the student is "motivated to learn in the workplace"
- That the student is able to "manage individualised learning and assessment"
- That the choice is not at the expense of appropriate and achievable alternative choices that keep more options for the future open to the student.
- That the course will not put at risk the student's ability to achieve well in NCEA and to gain University Entrance where these are realistic possibilities.

The decision about who will be chosen to participate in the Gateway program will be made in Term 4, 2018 for the 2019 programme. If spaces are still available and discussion with the Gateway coordinator and the Academic Dean placements can still be decided upon throughout the year 2019. For more information about work place options, Industry Training Organisation and availability please contact the Gateway coordinator, Angelika Frank-Alexander or better still make an appointment to see her: [angelikaf@ch.steiner.school.nz](mailto:angelikaf@ch.steiner.school.nz)

## **Courses**

### **Main Lessons**

#### **Class Eleven**

These lessons run for 3 weeks each and are the core of the Steiner curriculum and will be assessed for the New Zealand Rudolf Steiner School Certificate.

<b>LEARNING AREA</b>	<b>DESCRIPTION</b>
Chemistry	<u>Chemistry. Qualitative analysis.</u> Course follows the use and techniques of analysis, and is heavily weighted towards practical laboratory practice and experience, and the uses these phenomena are put to.
History	<u>The History of the Middle Ages</u> We study important historical events of the Middle Ages, learn about new technologies and their impact on people and societies, and try to understand the spirit of the Middle Ages. Topics include: the Magna Carta; Church life and issues of power; the feudal order, Heresy; Anti-Semitism <sup>2</sup> ; witchcraft; town and trade, the Viking expansion; Outside Europe (Mongols, Samurai, Islamic trade); The Black Death; Crusades; Women in the MA; William of Normandy and the Battle of Hastings; emergence of Nation states; literature, architecture, music, universities; etc...
Biology	<u>Cell biology.</u> This course provides an introduction to cell theory, a study of plant and animal cells, and development of practical microscope skills.
Geography/ History	<u>Urbanization</u> Core skills This main lesson looks at the successive waves of civilization which influenced the development of urban societies right up to the challenges facing all cities of the 21 <sup>st</sup> C.
Humanities	<u>Parzival</u> The Parzival story is an essential element of our Steiner curriculum. It tells about a young man who wants to become a knight, about the search for the Holy Grail. It's an odyssey of an adventurous character who is out to find himself, his purpose in the world and his personal response to the world. It is about inner growth... <i>and many other things.</i>
Music	<u>History of Western music</u> The evolution of consciousness from ancient times to modern as reflected by the history of western music.
English/ Careers	<u>Biographical Encounters</u> A range of individual life journeys will be presented to provide inspiration for carving your own biography.
Mathematics	<u>Projective geometry</u> Form as integral with space. Duality in 2 and 3 dimensions. Platonic solids. Pascal/Brianchon configurations. Space from the inside and the outside!
Physics	<u>Particle and Atomic Physics</u> We study the intermolecular (particle) forces in nature, and experiment to see their magnitude and occurrence; the development and structure of the atom and the presence and behaviour of radioactive materials and radioactivity, nuclear fission and fusion, and research the Chernobyl nuclear disaster.
Art	<u>Modern Art</u> A study of the extraordinary development of 20 <sup>th</sup> Century art is a necessity, for not only making sense of the strange and often esoteric products of contemporary art, but also current advertising, performance and film. This course offers a basic understanding of the underlying forces behind 'Modernism', and the diverse and exhilarating reactions of the various art movements. They will be studied through hands Group activities and a Gallery visit, which are the heart of this mainly experiential course.

## Class Twelve

These lessons run for 3 weeks each and are the core of the Steiner curriculum and will be assessed for the New Zealand Rudolf Steiner School Certificate.

<b>LEARNING AREA</b>	<b>DESCRIPTION</b>
History	<u>Twentieth century history</u> Students have a decisive input into the content of this Main Lesson as they choose topics for research, presentation and discussion in class.

Careers	<u>School and Beyond</u> You will receive advice from an expert in the field regarding the skills necessary to achieve the best of your abilities. You will also generate a CV, create a cover letter, fill out an application form and hone your interviewing skills.
History	<u>History of Philosophy</u> History of Philosophy Famous characters from the colourful history of philosophy and their ideas are on the menu of this main lesson. But also questions about reality, the origin of the world, meaning of life, human beings, existence, freedom, ethics, will be discussed. What can we know? Who are we? What can we hope for? How should we act?
Physics	<u>Colour and light</u> We study the theory behaviour and properties of light; the dual particle wave theory of light; conduct experiments to observe the phenomena associated with light; build, use and study devices and instruments using light; colour and light addition.
Mathematics	<u>Projective geometry</u> - Form arising out of Space and Time - path curves - Iterated transformations as a basis for form in Nature.
Art	<u>Architecture</u> World architecture as an expression of the evolution of the human spirit through material and technological development. Students will also design and construct their own ideal house.
Biology	<u>Evolution.</u> This course will focus on general zoology, distinction between primates and human beings, theories of evolution with a particular focus on theories of human origins.
Astronomy	<u>Man and the Universe</u> We study historical perspectives and the latest ground breaking developments and every thing (almost) in between, Earth, and the cosmos; we travel to the Mt John observatory, staying (in the youth hostel) in Tekapo, (c.\$140); we construct a model of the solar system; conduct astronomical experiments.
English	<u>New Zealand Writers and Directors</u> A timely reflection of New Zealand writers and their contributions to our literary landscape and an opportunity to self - reflect and offer a final literary contribution to our school.
Chemistry	<u>The Chemistry of life</u> We study the discovery of the DNA molecular structure (project); conduct chromatography experiments; and through experiments study the nature and compounds of the carbon atom, the chemistry of life. We will visit the HPGLC & mass spectrometer, at the U of C.
Biography	<u>Anthroposophy in practice.</u> This ML is sometimes simply called the Last Main Lesson. In it we reflect on our own biography and we learn about practical applications of Anthroposophy. We invite guest speakers and make visits and excursions to achieve these goals.

## Option Courses

<b>Level TWO - Class 11</b>			
Subject	Teacher	Subject	Teacher
Art History	<i>Sam</i>	Music	<i>Hugo</i>
Biology	<i>Katrina</i>	Photography/Media	<i>Neville</i>
Chemistry	<i>Katrina</i>	Physical education	<i>Alan Te Moananui</i>
Classical studies	<i>Sam</i>	Physics	<i>Pascal</i>
Drama	<i>Emma</i>	Practical Art	<i>Rebecca</i>
English (Compulsory)	<i>Graham/Rosalie</i>	Food and Nutrition	<i>Kathie</i>
History	<i>Sam</i>	Technology (Textiles)	<i>Rebecca</i>
Mathematics	<i>Gritt/Pascal</i>	Technology (Workshop)	<i>Alan C.</i>
Mathematics Applied	<i>Gritt/Pascal</i>		
<b>Level THREE - Class 12</b>			
Subject	Teacher	Subject	Teacher
Art History	<i>Sam</i>	Physical Education	<i>Alan Te Moananui</i>
Biology	<i>Maxine</i>	Physics	<i>Pascal</i>
Chemistry	<i>Katrina</i>	Visual Art	<i>Rebecca</i>
Classical Studies	<i>Sam</i>	Earth and Space Science	<i>Maxine</i>
Drama	<i>Emma</i>	Food and Nutrition	<i>Kathie</i>
English	<i>Graham</i>	Technology (Textiles)	<i>Rebecca</i>
Mathematics - Calculus	<i>John/Gritt</i>	Technology (Workshop)	<i>Alan C.</i>
Music	<i>Hugo</i>		
Photography/Media	<i>Neville</i>		

### Notes:

- Some of the Level 2 and 3 courses may be combined
- The teacher's listed are those for 2018, or earlier where the subject did not 'run' in 2018. The teacher for 2019 may be different to 2018.
- In addition to the above courses students may be considered for Correspondence School subjects where appropriate.
- If a sufficient number of students express definite interest in a course not listed it may be possible to add it to the list.

## Staffing and Course Viability

Selecting a course from the subjects offered in the Year 12 -13 Course Book is not a guarantee that you will achieve your complete first choice. Staffing is allocated to schools according to Government determined teacher-student ratios. If the number of students electing to study a given subject falls below a certain threshold there may not be sufficient staffing resource.

***In some cases classes will not run because of insufficient numbers. Every endeavour will be made to accommodate student requests but where classes are below the viable size one of these options is available:***

- combine levels e.g. Years 12 and 13
- apply for Correspondence School programmes
- use fourth (fifth for Class 12) option
- student to select an alternative subject

## Careers and Transitions

The Careers Department has a wealth of careers information and tertiary information available to help students make accurate choices and the careers adviser will always find answers to any individual questions. We aim to:

- provide opportunities for students to develop competencies to manage their career path. This includes instruction in navigating the careers website <https://www.careers.govt.nz/> .
- help students make informed decisions in terms of subject choices, further education or work. They will be kept up to date with enrolment dates and scholarship opportunities. As well, representatives from the business community, tertiary institutions and private training providers visit throughout the year. Students will also visit the annual Careers Expo in Term 2.

### Choosing Courses

In order that you may plan for your future effectively it is a good idea to have some idea about the further education or employment direction you wish to take. Once you have made this decision you will be able to plan your last two years at school so that the choices you make about your studies complement and support your intentions.

What you chose to study at school is related, in terms of qualifications or skill development, to every further education option or employment available to you. In short, you must think about what you need to study to best support your post school ambitions.

Here are a few ideas that will help you maximise career pathways

- Most level 3 courses have prerequisites that require a satisfactory achievement from the corresponding level 2 course
- When choosing Class 11 courses, think ahead about Class 12 courses as well so that your choice of class 11 subjects leads to an effective class 12 selection with a view to future career choice and keeping in mind the requirements for University Entrance.
- If you will be in Class 12, check carefully whether you will have the required number of approved subjects for University entrance AND your future desired qualifications and career.
- There are very few Science careers that require Physics without Chemistry and Mathematics, or Biology without Chemistry
- Scientific, commerce and technical occupations require Mathematics to at least Level 2.
- English and other subjects such as classical studies at Level 3 are of benefit for University study as assessment is often through essays and written assignment work

You can further check that your subjects and career choice match up by going to the website <https://www.careers.govt.nz/> or see the Careers Adviser or Academic Dean.

The section below shows the relationship between professions, careers and jobs together with the school and further education subjects and levels that are the best ones to study. Some career choices will enable you to continue with your studies at a tertiary institution and the diagrams indicate the study areas and subjects required for each career. Some jobs can begin straight after leaving school and will offer further training and education as you work.

Whatever your post school intentions you will need to give this information careful consideration and use it as a starting point for further planning. As part of your learning programme at school you are required to take part in a compulsory careers and life skills course preparing for post school options and life directions.

- Make sure you pay attention to the pre-requisites in each subject offered and plan ahead
- Be sure to take into account University Entrance requirements.

## Subject Choice Guide for Tertiary Study and Employment

The following material may assist in course selection; however the subjects and qualification levels which best suit particular types of training and/or careers do change from time to time. Once you have read the information contained in this section, it is vital to check with tertiary institution course booklets/websites plus appropriate organisations for updated details (including any achievement/unit standard requirements).

By also using the website (<https://www.careers.govt.nz/>), you will be able to check that your subjects and career choice match up.

Training/Career	Relevant Subjects
<b>Accountancy Degree</b>	A broad range of subjects are recommended. Accounting and Economics, Mathematics with Calculus and/or Statistics and Modelling and English or other Humanities subject are recommended. Computer skills are valuable.
<b>Agriculture and Agricultural Science Degrees</b> (Lincoln University)	Level 3 Chemistry is recommended, with a background in subjects such as Biology, Mathematics with Statistics and Modelling, Economics, Horticulture and Geography useful.
<b>Applied Computing Degree</b> (Lincoln University)	A quality general education at Level 3 in subjects such as Economics, Accounting, Science, Mathematics, Computing and English.
<b>Applied Science Degree</b> (University of Otago)	There are 11 subject areas available. Most require Mathematics with Calculus. Process Technology and Molecular Biotechnology require Chemistry (very useful background for Environmental Management). Recommendations include Physics, Mathematics with Statistics, Biology, Computing and Geography depending on the subject area chosen.
<b>Apprenticeships, Trades</b>	Many trades require completion of pre-trade courses at Polytechnics, with a minimum of Level 1 in English and Mathematics required for some of these courses. English, Mathematics and sometimes Science are usually recommended, as well as subjects related to the trade (e.g. Applied Technology for the Engineering, metal and wood based trades / Electronics for Automotive Engineering).
<b>Architecture</b>	<b>For Auckland University</b> Specific subject requirements include 16 credits in Level 3 English (or another approved Humanities subject – check with University) plus 16 credits at Level 3 in either Mathematics with Statistics, Mathematics with Calculus, Physics, Chemistry, Biology, Economics or Accounting. A portfolio of architectural drawings prescribed by the Architectural School is also required. Level 3 Art is advantageous and it is recommended that you study a broad-based programme including subjects such as Mathematics, Graphics, Computing and Humanities.
	<b>For Victoria University</b> Physics and Mathematics with Calculus are strongly recommended (as if you do not have the required level of achievement in both of these subjects at Level 3, you will need to include a course in either Mathematics or Physics in your first year). English, Technology and a subject in creative areas such as Art, Design or Graphics are useful.
<b>Architectural Technology - National Diploma</b> (Christchurch Polytechnic Institute Of Technology)	At least 12 credits at Level 2 in each of three subjects is required, and if these do not include English then 12 credits in Level 1 English are required. Check with the Polytechnic regarding any Level 2 Maths requirements. Applied Technology and Graphics are useful.
<b>Arts Degree</b>	It is recommended that where possible you should take the subjects at school that you intend to study at University.
<b>Aviation</b>	<b>Massey University</b> Level 3 Mathematics with Calculus, Physics and English are strongly recommended. A high standard of written and spoken English is essential. Entry is by selection.
	<b>International Aviation Academy (Christchurch Airport)</b> Mathematics, Physics and English to at least Level 2 are recommended. IELTS 6 is needed for International students.
<b>Biology</b>	Careers in Biology, Health, Adventure tourism and Science related fields, Medicine, Pharmacy, Medical Technology, Nursing, Vet Science, DOC ranger, Agriculture and Horticulture, Forestry, Environmental sciences, general education.
<b>Business and Management</b>	English, Mathematics, Accounting, Economics are recommended. Computing useful.

<b>Child Care/Nannyng</b>	Level 2 in subjects such as English and Human Development are useful.
<b>Clerical</b>	Level 2 English, Mathematics and Information Management recommended. Computing and Accounting useful.
<b>Commerce Degree</b>	It is recommended that, where possible, you take the subjects at school that you intend to study at University. Mathematics with Calculus and or Maths with statistics and Modelling and Humanities subjects such as English are recommended. Computer skills are valuable. Limited entry based on Level 3 achievement applies at certain universities in some courses.
<b>Computing Degree</b>	Mathematics with Calculus is required for Computer Science at Canterbury University. Computing skills are useful.
<b>Conservation</b>	English and Science (especially Biology) are required. Geography and Maths are recommended and Maori is useful.
<b>Consumer and Applied Sciences (University of Otago)</b>	Biology, Chemistry and Mathematics with Statistics and Modelling (depending on degree structure) are recommended. English or other Humanities subject useful.
<b>Cooking/Chef</b>	At least 12 credits in Level 1 English are expected at Christchurch Polytechnic Institute of Technology. A background in Food and Nutrition would be useful.
<b>Defence Forces</b>	<b>Officer Training</b> A good standard of Level 3 achievement in a range of subjects is usually required. Some options specify good Level 2 results in English, Mathematics and either Physics, Chemistry or Computing. (It is essential to check with the force concerned).
	<b>Trades</b> Level 1 or better in English and Mathematics. Science is needed in some trades, sometimes to Level 2 standard in Physics or Chemistry. Applied Technology, Graphics, Electronics and Computing useful for some options. (Check with the force concerned).
<b>Dentistry Degree (University of Otago)</b>	See <b>Health Sciences</b>
<b>Design (E.g. Graphic/Interior/Fashion/Industrial)</b>	At least Level 2 in subjects such as Practical Art, Art History, Graphics, English (or other Humanities subject, e.g. Classical Studies) and Mathematics are required. Level 3 credits equivalent to University Entrance and a portfolio are needed for degree option. Computer skills are useful. Check with each Tertiary trainer for their specific entry requirements as they are different in each institution.
<b>Economics Degree</b>	A broad range of subjects recommended including Economics. Mathematics with Calculus and Statistics and Modelling is recommended for majoring in Economics.
<b>Engineering Technology (Electrotechnology Degree) (Christchurch Polytechnic Institute Of Technology)</b>	14 credits at Level 3 in each of three subjects required preferably including Maths with Calculus and Physics, with a minimum of 12 credits in each of Level 2 Mathematics and Physics or Electronics. Also, 12 credits in Level 1 English are required.
<b>Engineering (e.g. Mechanical, Mechatronics, Chemical and Process, Forestry, Civil, Electrical and Computer, Natural Resources).</b>	<b>University of Canterbury – Degree</b> Level 3 Mathematics with calculus, Physics and Chemistry are essential. A Humanities subject (such as English) and Maths with statistics and Modeling are useful. Mathematics with Statistics. Biology is helpful for some options.
	<b>University of Auckland – Degree</b> Specific subject requirements are a minimum of 18 credits in each of Level 3 Mathematics with Calculus and Physics.
	<b>Christchurch Polytechnic Institute of Technology- Diploma in Mechanical Engineering</b> At least 12 credits at Level 2 in Mathematics or Physics required. Mathematics with Calculus and a Graphics background useful, as well as basic computer skills in word processing and spreadsheets. Check with the Polytechnic for entry to the Diploma in Engineering (Civil).
<b>Environmental Management Degree (Lincoln University)</b>	A quality general education at Year 13 level in subjects such as Biology, Economics, Geography, and Mathematics with Statistics, Modelling and English is recommended.
<b>Fine Arts Degree (University of Canterbury)</b>	Requires two NCEA Level 3 Practical Art subjects with a high standard achieved (equivalent of high Merit, Excellence or Scholarship) in Achievement Standard Visual Arts 3.3, as well as photographic records of the work produced. Also need at least 14 credits in each of two other Level 3 subjects (not Practical Art). English (or another Humanities subject) and Art history are useful.
<b>Food Science (University of Otago)</b>	Mathematics with Statistics, Chemistry and Biology are recommended. Physics and English (or other Humanities subject) may also be useful.
<b>Food Technology/Biotechnology (Massey University)</b>	Mathematics with Calculus, Physics and Chemistry are required. A background in Mathematics with Statistics and Modelling and Biology is also useful.
<b>Forestry Science Degree</b>	Chemistry, Biology, Mathematics with Statistics and modelling, Economics and English (or a Humanities subject such as Geography, History or Classics) recommended.
<b>Hairdressing</b>	Level 1 Art, English, Science and Mathematics are useful.
<b>Health Sciences First Year (University of Otago)</b>	Chemistry is essential. Biology, Physics and Mathematics with Statistics or Calculus are strongly recommended. A Maths with Calculus background widens Science related study options but Statistics is taught within HEAL 101, the Foundations of Epidemiology. English (or another Humanities subject – e.g. History) is useful.
<b>Horticultural/Farm Management Diploma (Lincoln University)</b>	A quality general education at Level 2. A background in subjects such as English, Mathematics, Biology, Horticulture and Chemistry useful.
<b>Hotel and Catering Industry</b>	At least Level 2 English, Mathematics, Accounting, Economics, Food and Nutrition, and Hospitality are useful (depending on chosen occupation).

<b>Journalism</b>	A background in English, Information Management and Photography is useful).
	<b>Christchurch Polytechnic Institute of Technology – Degree</b> For the Bachelor of Broadcasting Communications, students need to have achieved University Entrance. Applications require demonstrated skill potential plus broadcast, journalism or performance experience.
	<b>University of Canterbury – Post-Graduate Diploma</b> This course follows completion of a degree of any sort. Applicants need to demonstrate a commitment to Journalism as a career and an understanding of the workplace (e.g. practical experience).
<b>Land Surveying Degree</b> (University of Otago)	Mathematics with Calculus, Mathematics with Statistics, Physics and English recommended. Geography, Computing and Design Studies useful. The Intermediate (first year) course may only be undertaken at Otago University.
<b>Landscape Architecture Degree</b>	A quality general education is required at level 3 in subjects such as Art (especially Design), Graphics and Biology and Horticulture.
<b>Law</b>	Quality general education to Level 3 is required. Subjects that develop a very good command of speaking, reading and writing English, as well as analytical skills recommended. Consider Year 13 subject choice in preparation for the double degree option (e.g. BA/LLB, BCom/LLB and BSc/LLB).
<b>Maori Planning and Development</b> (Lincoln University)	A quality general education at Level 3 is required in subjects such as English, History, Maori, Economics, Mathematics, Geography and Tourism.
<b>Management Science Degree</b>	Mathematics with Calculus and Statistics are recommended. Accounting, Economics, Computing and a Humanities subject such as English are helpful.
<b>Medical Laboratory Science</b> (University of Otago)	<b>See Health Sciences</b>
<b>Medicine</b>	<b>University of Otago</b> <b>See Health Sciences</b>
	<b>University of Auckland</b> Selection for entry to Medical School will take place after an Intermediate year of study in either a Bachelor of Science (Biomedical Science) or a Bachelor of Health Sciences. It is essential to check with the careers advisor or the Faculty of Medical and Health Sciences about their specific Level 3 subject requirements for entry to these courses, so that options are not limited.
<b>Motor Industry</b>	At least Level 1 Mathematics and English are required. Applied Technology, Science, Electronics and Graphics are useful.
<b>Music</b>	<b>University of Canterbury – Degree</b> At least Level 2 Music, although Level 3 Music is preferred. Performance levels: Diploma level for instrumentalists, Grade 8 level for singers.
	<b>Christchurch Polytechnic Institute of Technology Diploma in Jazz</b> Applicants must have musical ability as demonstrated at an audition. A background in basic musical theory is required (Grade 3 ABRSM being preferred). It is essential to check with the Polytechnic regarding the English language credits required.
	<b>Massey University’s Wellington Conservatorium of Music – Degree</b> At least Grade 5 theory (ABRSM) and at least Grade 8 performance level for Classical major is required.
<b>Nursing Degree</b> (CPIT)	Level 3 requirements as follows: 14 credits in an English language-rich subject (e.g. English History, Art History, Classics, Geography, and Economics), 14 credits in Biology or Physical Education or Chemistry, and an additional 14 credits across any subject areas/domains. Also, at least 14 credits in Level 1 Mathematics are needed.
<b>Occupational Therapy Degree</b> (Otago Polytechnic)	60 credits at Level 2 across four subjects or 42 credits at Level 3 is required. A broad range of subjects acceptable.
<b>Optometry</b> (University of Auckland)	No direct entry from Year 13. Students begin their study by taking university courses in Biology, Chemistry, Physics and Health Sciences.
<b>Pharmacy</b>	<b>University of Otago</b> <b>See Health sciences</b>
	<b>University of Auckland</b> Specific subject requirements are at least 18 credits in each of Biology and Chemistry. Candidates will be interviewed.
<b>Photography</b> (CPIT)	At least 12 Level 2 credits in either English (or another English-rich subject) are required. A background in Art is useful and a portfolio of photographs is required.
<b>Physical Education</b> (University of Otago)	Physical Education is highly recommended. Biology and Mathematics with Statistics and Modelling are recommended. Year 13 applications must be enrolled in a minimum of four Level 3 NCEA approved subjects. Admission is initially from Year 12 academic results and during that year applicants should aim for at least 80 credits at Level 2, with a minimum of 16 credits in each of their top four subjects. The total volume and number of credits achieved at merit and excellence level will be taken into account. Applicants who do not gain admission from their level 2 results may gain admission from results obtained in their level 3 NCEA approved subjects, or at the completion of a first year university course.
<b>Physiotherapy</b>	<b>University of Otago</b> <b>See Health Sciences</b> In addition to University entrance requirements, at least 14 credits at Level 3 are needed in a science or Maths subject from the NCEA approved list, plus a minimum of 14 credits in Level 2 English.

<b>Police</b>	Entrance test is based on reading, writing, numeracy, keyboard, and fitness skills. Subjects that develop these skills are recommended.
<b>Quantity Surveying (CPIT)</b>	At least 12 credits at Level 2 in each of three subjects including Mathematics. A minimum of 12 credits in Level 1 English also required.
<b>Radiography</b>	<b>Bachelor of Medical Imaging - Christchurch Polytechnic Institute of Technology</b> Level 3 requirements are as follows: 14 credits in an English language-rich subject (e.g. English, History, Geography, Classics, Art History, and Economics), 14 credits in a science subject (preferably Physics) or Mathematics, and an additional 14 credits across any subject areas domains (preference being given to Physics, Biology, Chemistry and Mathematics). Any applicant without credits in Level 3 Physics needs to contact CPIT for confirmation of how to fulfil this criterion.
<b>Radiotherapy</b>	<b>Bachelor of Health Sciences – Medical Radiation therapy – University of Otago</b> Applicants must have gained at least a University Entrance qualification. The subjects given preference for entry are English or Classics, Mathematics with Statistics and Modelling or Mathematics with Calculus, and Biology or Physics. An interview is also required.
<b>Recreation Management Degree (Lincoln University)</b>	A quality general education at Level 3 in subjects such as Physical or Outdoor Education, Sports leadership and performance, History, Geography, Biology, Mathematics, English and Economics is required.
<b>Science Degree</b>	A wide range of subjects can make up a Science degree (e.g. Geology, Chemistry, Physics, and Astronomy). For whichever discipline you intend to follow in your tertiary study, check University/Polytechnic course requirements to select the most appropriate science subjects to study at Level 3. Mathematics with Calculus or Statistics and modelling may be pre-requisites in the second and third year level of degree subjects.
<b>Secretarial Work</b>	Level 2 English and Information Communication Technology are preferred. Computer Studies and Accounting may be useful for some positions.
<b>Social Science Degree (Lincoln University)</b>	A quality general education at Level 3 in subjects such as English, History, Geography, Economics and Mathematics is recommended.
<b>Social Work Degree</b>	A broad education is required and an interest in people essential. Social Sciences and English useful. Mathematics with Statistics and Modelling would be helpful for advanced study.
<b>Speech and Language Therapy</b>	A background in science subjects is strongly recommended to at least Level 2. Biology is particularly useful. The course includes work experience, including visits to meet people with different speech and language abilities. Useful subjects also include Level 3 Maori or English.
<b>Teaching (Christchurch College of Education)</b>	<b>Early Childhood and Primary</b> University Entrance requirements must be met, indicating an ability to study at degree level for Bachelor of Teaching and Learning. <b>Secondary</b> The Graduate Diploma in Teaching and Learning is necessary after completing a degree or equivalent qualification. This degree must include study to 200 Level in at least two teachable subjects taught in New Zealand Schools, with preference being given to those with degree specialization to 300 levels. The Christchurch College of Education is planning to merge with the University of Canterbury. At the time of printing the implications of this planned merger on entry requirements for degree courses is unknown. Students will need to contact the University for details of entry to the teaching degree courses and regarding eligibility for Provisional Entrance.
<b>Tourism/Travel</b>	English, Mathematics, Tourism, Geography, Information Management, computing and Languages are useful.
<b>Veterinary Science (Massey University)</b>	Level 3 Chemistry, Physics, Biology, Mathematics with Calculus and/ or Mathematics with Statistics and Modelling are required. Effective written and spoken communication skills are necessary, so English or other Humanities subject (e.g. History) is also recommended.

**Remember that the school Careers Advisor (Mareile Stoppel) has access to a wide range of further careers guidance material.**

# **Level 2 courses:**

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>APPLIED MATHS AND STATISTICS</b>	
Description	This is a fun and practical course designed for those students who want level 2 mathematics credits but do not have particularly strong algebra skills. It is an easier alternative to the other L2 mathematics course.	
Time allocation	3.5 hours	
Course costs	Course workbook and revision booklet (approx \$30.)	
Special equipment required	Scientific Calculator an advantage.	
Tutor	Pascal Bouffandeau	
Career relevance	Science, Technology, Medicine, Engineering, Physical Education, Architecture Dentistry, Acoustics, Economics, Accountancy, Aeronautics, Computer Science, Astronomy, Astrophysics.	
Best in combination with	Any other subject, especially sciences.	
Pre- requisites	Numeracy Level 1 (14 credits Level 1 an advantage)	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
Math's&Stats 2.4	Trigonometry	2 Internal
Math&Stat 2.3	Apply sequences and series in solving problems	2 Internal
Math&Stat 2.12	Apply probability methods in solving problems	<b>4 External</b>
Math&Stat 2.13	Investigate a situation using a simulation	2 Internal
Math&Stat 2.5	Network	2 Internal
Math's & Stats 2.9	Use statistical methods to make an inference	4 Internal
A Statistics unit will also be taught in this course.		16 credits
<b>Total</b>		
Work requirements	Practical and mathematical exercises.	
Homework required	1-2 hours per week.	
Method of assessment	Internally and Externally assessed achievement standards.	
Endorsable	yes for merit and excellence	
Leads on to	Level 2 Maths is a prerequisite for many tertiary courses. It is particularly useful if you will be studying Physics, Chemistry, Biology, Science, Design or Technology.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>BIOLOGY</b>	
Time allocation	3.5 hours	
Course costs	\$60 for Ecology camp. \$25 Biology workbook.	
Special equipment required	None	
Tutor	Katrina Burns	
Career relevance	Careers in Biology, Health, Adventure tourism and Science related fields, Medicine, Pharmacy, Agriculture and Horticulture, Forestry, Environmental sciences, general education.	
Best in combination with	Mathematics, Chemistry, Physics but not essential	
Pre- requisites	Literacy and Numeracy L1, Year 11 Science, and an interest in Biology. HOD approval.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
2.1	Carry out a practical investigation in a biology context.	4 Internal
2.2	Analyse the biological validity of information presented to the public.	3 Internal
2.3	Demonstrate understanding of adaptation of plants and animals to their way of life.	3 Internal
2.6	Investigate a pattern in an ecological community.	4 Internal
2.8	Investigate biological material at the microscopic level.	3 Internal
2.5	Demonstrate understanding of genetic variation and change.	4 <b>External</b>
<b>Total</b>		<b>18-21</b>
Work requirements	Scientific investigations in lab and field, reading and research	
Homework required	3 hours per week.	
Method of assessment	Internally and Externally assessed achievement standards.	
Endorsable	Yes, for Merit and Excellence.	
Leads on to	Level 3 Science and Biology. UE Approved.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>CHEMISTRY</b>	
Course description	The course will be a comprehensive introduction into most areas of chemistry, providing a wide range of learning experiences (e.g. experiments, cooperative and inquiry based learning, individual research etc.) to the students. General mathematical concepts are applied towards the quantification of chemical phenomena.	
Time allocation	3.5 hours	
Course costs	\$20 course book costs.	
Special equipment	None, Lab coat advisable.	
Tutor	Katrina Burns	
Career relevance	Medicine, Pharmacy, Agriculture and Horticulture, Forestry, Environmental, Health and Food sciences Chemical engineering, etc.	
Best in combination with	Biology and/or Mathematics and/or Physics.	
Pre- requisites	L1 Maths*, Year 11 Science <b>or</b> HoD approval.! [*or currently enrolled]	
<b>NCEA Qualifications available in this course: University entrance, to Merit or E.</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 91161 Chem 2.1 AS 91162 Chem 2.2 AS 91164 Chem 2.4 AS 91165 Chem 2.5 AS 91167 Chem 2.7	1 Quantitative analysis 2 Qualitative chemistry. 3 The Bonding and structure in chemistry. 4 Organic Chemistry 5. Oxidation-Reduction in chemistry.	4 Internal 3 Internal 5 <b>External</b> 4 <b>External</b> 3 Internal
Total		20
Work requirements	Reading, writing and practical experiment.	
Homework required	Approx 2-3 hours per week.	
Method of assessment	Internal and externally assessed achievement standards. Practical and Theoretical tests.	
Leads on to	[Pre-requisite for] Level 3 chemistry.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>CLASSICAL STUDIES</b>	
Description	Classical Studies is the study of the civilisations of Classical Greece and Rome. In classical Greece and Rome are to be found the origins of much of our art, science, literature, law, philosophy, politics and religion. The Greeks and Romans produced works which are recognised to be of the very highest quality. Classical Studies is a "multi-disciplinary" subject, including eg. Social and political history, literature and art, which are normally separated in the curriculum. Topics include: Sophocles', Theban Plays; Athenian Art and Architecture, Classical Mythology, etc.	
Time allocation	3.5 hours	
Course costs	None	
Special equipment required	None	
Tutor	Sam Wakelin	
Career relevance	Good general background for any career.	
Best in combination with	English	
Pre- requisites	Good standard of written English.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91200	Examine ideas and values of the classical world.	4 <b>External</b>
AS91201	Examine the significance of features of work(s) of art in the classical world.	4 <b>External</b>
AS91202	Demonstrate understanding of a significant event in the classical world.	4 Internal
AS91203	Examine socio-political life in the classical world.	6 <b>External</b>
AS91204	Demonstrate understanding of the relationship between aspects of the classical world and aspects of other cultures.	6 Internal
Total		24
Work requirements	Reading and written work, some practical Art possible.	
Homework required	2-3 hours per week.	
Method of assessment	Internally and externally assessed achievement standards.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>DRAMA</b>	
Description	<p>Level 2 Drama is a great way to build on performance skills already formed in earlier years. This course gets students to think critically about character development and texts but also allows some creative freedom.</p> <p>During the year students will have the opportunity to create and devise their own theatre pieces. They will also be expected to take on performance roles in the upper school play, working as a team allowing them to take ownership of the play and develop leadership skills.</p> <p>In term three we study a theatre form, where students look at the development of theatre throughout the ages, and try this particular style .This is a practical course with assessment being performance based, but supported by written material. There is a Drama exam but this is optional to the students.</p>	
Time allocation	3.5 hours	
Course costs	Students will attend one live theatre show per term, tickets usually \$15. 00	
Special equipment required	1 x Clear file Lined refill	
Tutor	Emma Cusdin	
Career relevance	Professional Music, Performance Arts, Teaching, Film and Media.	
Best in combination	n/a	
Pre- requisites	Level 1 literacy. Proven commitment from previous school productions and class plays.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91214	<b>Drama</b> Devise a performance to realise an intention.	5 Internal
As91218	<b>US PLAY</b> Research, prepare and perform a performance in a major production	5 Internal
AS91216	<b>Drama</b> Perform features of a theatre form or period	4 Internal
As 91216	<b>Drama</b> Use drama techniques in a scripted context.	4 Internal
AS91219	<b>External Exam Optional.</b>	4 <b>External</b>
<b>Total</b>		<b>18-22</b>
Work requirements	Ability to work individually and in a team environment.	
Homework required	Variable throughout the year depending on project requirements. During US play students are required to be available for weekend rehearsals.	
Method of assessment	Internal . <b>Exam optional</b>	
Leads on to	NASDA, University Study of Fine Arts and Media, NZ Film School, Toi Whakaari (Dance and Drama), Hagley Theatre Company, UNITECH Acting for Screen, NZ Broadcasting School.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>ENGLISH - This course is compulsory for all students</b>	
Description	Class 11 English is a full year course that prepares students for NCEA Level Two. Students will study for two of the three external standards throughout the year and will sit two in the final examination. Two internal standards are offered. A total of 17 credits is available.	
Time allocation	3.5 hours	
Course costs	Allow \$20 for texts and visits.	
Equipment	1 x A4 Ring-binder with two sets of dividers and refill. Pens, highlighters and ruler.	
Tutor	Graham Crawford and Rosalie Rogers	
Career relevance	Useful for all careers	
Best in combination with	Any subject	
Pre-requisites	Students need to have gained 10 credits at Level 1 NCEA	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 91098	2.1 Analyse studied written texts	4 <b>External</b>
AS 91099	2.2 Analyse studied visual texts	4 <b>External</b>
AS 91100	2.3 Analyse unfamiliar written texts	4 <b>External</b>
AS 91101	2.4 Produce a selection of crafted & controlled writing	6 Internal
AS 91102	2.5 Construct a crafted and controlled visual and verbal text	4 Internal
AS 91103	2.6 Create a crafted and controlled visual and verbal text	3 Internal
AS 91104	2.7 Analyse significant connections across texts supported by evidence	4 Internal
Total		Up to 18
Work requirements	The literacy requirements for University Entrance are 10 credits at Level Two, with 5 credits in reading and 5 credits in writing.	
Homework	One hour for each lesson	
Method of assessment	Internal and external	
Leads on to	Level 3 English.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>HISTORY</b>	
Description	The course focuses on four themes or forces shaping the modern world: 1: Industrial and Social Change 2: Nationalism, International Relations and the Search for Security 3: Government and Political Change 4: Imperialism, Indigenous Peoples and the Emergence of New Nations	
Time allocation	3.5 hours	
Course costs	None	
Tutor	Sam Wakelin	
Career relevance	Good general background for any career.	
Best in combination with	English or foreign Languages.	
Pre- requisites	Good standard of written English.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91229	2.1: Carry out a planned inquiry of an historical event, or place, of significance to New Zealanders	4 Internal
AS91230	2.2: Examine an historical event, or place, of significance to New Zealanders	5 Internal
AS91231	2.3: Examine sources of an historical event of significance to New Zealanders	4 <b>External</b>
AS91232	2.4: <i>Interpret different perspectives</i> of people in an historical event of significance to New Zealanders, Internal	5 Internal
AS91233	2.5 Examine causes and consequences of a significant historical event	5 <b>External</b>
Total		Up to 23
Work requirements	Reading and written work.	
Homework required	2-3 hours per week.	
Method of assessment	Three Internally and two externally assessed achievement standards.	
Leads on to	Arts and humanity studies at Level 3.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>HISTORY OF ART</b>	
<b>Description:</b> Art History will cover a range of topics from contemporary and earlier New Zealand art, Maori art and New Zealand and International architecture as well as personal research on any art related topic (including film, video, international or historical areas of art, design or architecture) providing interesting material for a wide study that can be assessed as unit standards or achievement standards.		
Time allocation	3.5 hours	
Course costs		
Tutor	Sam Wakelin	
Career relevance	Architecture, graphic design, curatorial work, museum studies, historical research, journalism and general art fields.	
Best in combination with	English, practical art and design, classical studies, physics / maths (towards architecture)	
Pre- requisites	Good comprehension and writing skills, interest in art and architecture.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 2.1 (91180)	Examine the effects of formal elements of art works	4 <b>External</b>
AS 2.2 (91181)	Examine the meanings conveyed by art works	4 <b>External</b>
AS 2.4 (91183)	Examine how media are used to create effects in art works	4 Internal
AS 2.5 (91184)	Communicate understanding of an art history topic	4 Internal
AS 2.6 (91185)	Communicate a considered personal response to art works	4 Internal
Total		Up to 20
Work requirements	Preparation of work for assessment, as well as topic notebooks.	
Homework required	3 hours per week and ongoing research for the personal research topic.	
Method of assessment	Internally and External assessment.	
Leads on to	Level 3 History of Art	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>HOME ECONOMICS – Food and Nutrition</b>	
Time allocation	3.5 hours	
Course costs	\$150	
Special equipment required	Paper , pens and coloured pencils, when needed	
Tutor	Kathie La Rooij	
Career relevance	Hospitality, Tourism, catering	
Best in combination with	Any	
Pre- requisites	An interest in nutrition and food. A willingness to undertake some theory and written research work.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 90302	Evaluate sustainable food related practices	5 Internal
AS 91299	Analyse issues related to the provision of food for people with specific food needs.	5 Internal
AS 91301	Evaluate health promoting strategies designed to address a nutritional need.	5 Internal
Total		15- 20
Work requirements	Class room practical cooking sessions and research reports	
Homework required	Up to 30 minutes when needed.	
Method of assessment	Internal assessment.	
Leads on to	Level 3.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>MATHEMATICS</b>	
Time allocation	3.5 hours	
Course costs	Suitable course workbook/revision text (approx \$20 -35.)	
Special equipment required	Usual Mathematics equipment. Scientific Calculator essential, but approved graphics calculator a significant advantage	
Tutor	Gritt Enevold / John Suggate	
Career relevance	Science, Technology, Medicine, Engineering, Physical Education, Architecture Dentistry, Acoustics, Economics, Accountancy, Aeronautics, Computer Science, Astronomy, Astrophysics.	
Best in combination with	Any other subject, especially sciences.	
Pre- requisites	Satisfactory achievement Level 1 Mathematics (especially algebra, graphs, trigonometry, some of which should be at merit level).	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
Math&Stat 2.2 Math&Stat 2.4 Math&Stat 2.6 Math&Stat 2.7	Apply graphical methods in solving problems Apply trigonometric relationships in solving problems Apply algebraic methods in solving problems Apply calculus methods in solving problems	4 Internal 3 Internal 4 <b>External</b> 5 <b>External</b>
Total		16
Work requirements	Practical work, theory and problem solving exercises.	
Homework required	2-3 hours per week.	
Method of assessment	Internal and Externally assessed achievement standards.	
Endorsable	Yes, for Merit and Excellence.	
Leads on to	Pre-requisite for L3 Calculus. Pre-requisite, co-requisite or simply helpful for Physics, Chemistry, Biology, Science, Technology.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>MUSIC</b>	
Time allocation	3.5 hours per week	
Course costs	Private instrumental coach fee Accompanist Costs for booklets Field trips to concerts and festivals Digital audio workstation software costs (if enrolling in music technology or performing arts technology standards). Suitable software is Logic, Ableton Live, Protools or Studio One.	
Special equipment required	A functional instrument (if performing) A laptop with OSX or Windows 8.1-10 with sufficient hard disk space and Office365 apps installed. This laptop should have a suitable digital audio workstation installed (see above) if enrolled in music technology or performing arts technology unit standards.	
Tutor	Hugo Zanker	
Career relevance	Professional musician, performing artist, education, broadcasting, film post production, sound engineering	
Best in combination with	English, photography, drama, physics	
Pre-requisites	Students should have previous musical experience, a growth mindset and passion for music in the 21 <sup>st</sup> century. There may be an entry interview for this course.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91271 AS91270	<b>Making Music</b> Compose two substantial pieces of music Perform two substantial pieces of music as a featured soloist Demonstrate ensemble skills by performing a substantial piece of music as a member of a group	6 Internal 6 Internal
AS91272 AS91274 AS91275	Perform a substantial piece of music as a featured soloist on a second instrument Demonstrate aural understanding through written representation	4 Internal 3 Internal 4 External
AS91276 AS91277 AS91278	<b>Music Studies</b> Demonstrate knowledge of conventions in a range of music scores Demonstrate understanding of two substantial contrasting music works Investigate an aspect of New Zealand music	4 <b>External</b> 6 <b>External</b> 4 <b>Internal</b>
US27657	<b>Music and Performing Arts Technology</b> Demonstrate knowledge of the development and usage of music technology equipment and techniques	4 Internal
US27658	Demonstrate and apply knowledge of electronic music production and music notation applications	4 Internal
Standards from the above options will be chosen for a total of		18-22
Work requirements	Attendance to all classes, solo tuition, extra-curricular involvement in the school music programme (including the Play) Rehearsing, Workshopping and Performing. Aural Tests. Working with PA and DAW(Music Tech)	
University Entrance	All Achievement Standards	
Homework	Approx 2-3 hours per week.	
Method of assessment	Internal and External Assessment	
Leads on to	Level 3 Music, Tertiary Performing Arts Colleges, Study of Arts and Humanities, Sound Engineering Courses.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>PHOTOGRAPHY/MEDIA</b>	
Description	A course not for the faint hearted but for those who like to be challenged visually and/or aurally. Students chose to work in the discipline of Photography or Moving Image. In <b>Photography</b> , the work of photographers and the elements and principles of photographic design are studied. Students complete a photographic folio on a theme. In <b>Moving Image</b> stop motion, video production and design are studied. Students complete a digital folio based around a video production of their choice.	
Time allocation	3.5 hours per week	
Course costs	Photography Approximately \$50 for HQ photo paper and proofing. Moving Image no cost	
Equipment	Clearfile A good digital SLR camera (with video if considering Moving Image) 4 – 16 Gb USB memory stick	
Tutor	Neville Campbell	
Career relevance	Fine arts and design, graphic design, architecture, film and television, theatre, photo journalism, fashion photography, motion graphics animator, advertising, medicine, scientific photography, sports and celebrity photographer, illustration	
Best combination	English, Visual art, history of Art and Design and all of the Sciences	
Pre- requisites	An interest in Photography/Video, good organizational skills, comfortable with technology.	
<b>NZQA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91312 Internal	Use drawing methods to apply knowledge of conventions appropriate to photography	4 Photography
AS91317 Internal	Develop ideas in a related series of drawings appropriate to established photography practice	4 Photography
AS91322 <b>External</b>	Produce a systematic body of work that shows understanding of art making conventions and ideas within photography	12 Photography
AS91325 Internal	Produce a resolved work that demonstrates control of skills appropriate to cultural conventions within design practice	4 Moving Image
AS91315 Internal	Develop ideas in a related series of drawings appropriate to established design practice	4 Moving Image
AS91320 <b>External</b>	Produce a systematic body of work and show understanding of art making conventions and ideas within design moving image	12 Moving Image
	Total	20 Photography 20 Moving Image
Homework required	Throughout the year.	
Assessment	Internal and External Assessment	
Endorsement	Excellence and Merit Endorsement.	
Leads on to	L3 Photography/Media, Tertiary Art, Design, Photography, Film and Television courses	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>PHYSICAL EDUCATION</b>	
Description	The course focuses on the practical application of theoretical Physical Education concepts. Students will learn how they body moves and functions by applying anatomy and biomechanical principles to various sporting contexts. Students create training programmes and plan for a race such as city to surf or an adventure race. Students also look at social responsibility, groups and leadership in Physical contexts and use Upper school snow camp to see these processes in action. We do a variety of practical activities and fun and exciting sports and P.E. tries to be as practical as possible. Climbing is an example of one of the physical activities that is used for assessment and learning.	
Time allocation	3.5 hours	
Course costs	Up to \$150 for climbing, event entry costs other course physical activities and a Physical Education workbook	
Special equipment required	Suitable exercise clothing.	
Tutor	Al Te Moananui (Annabelle Simpson)	
Career relevance	Adventure Tourism, Outdoor Education, Sport and Recreation, Physical Education, Sport Coaching and Fitness Industry.	
Best in combination with	Biology	
Pre- requisites	Minimum Achieved grade in Class 10 (Year 11) modules	
<b>NZQA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91329 (2.3)	Demonstrate understanding of the application of biophysical principles to training for physical activity	4 Internal
AS91328 (2.2)	Demonstrate understanding of how and why biophysical principles relate to the learning of physical skills	5 Internal
AS91336 (2.10)	Analyse group processes in physical activity	3 Internal
AS91334 (2.8)	Consistently demonstrate social responsibility through applying a social responsibility model in physical activity	3 Internal
AS91330 (2.4)	Perform a physical activity in an applied setting	4 Internal
Total		19 credits
Work requirements	Approximately 40% physical activity, including gym training, camp, physical skill learning and skill performance; 60% classroom and laboratory work.	
Homework required	Various assignments, average 2-3 hours per week.	
Method of assessment	All <b>Internally assessed</b> Achievement Standards.	
Endorsable	Yes, for Merit and Excellence	
Leads on to	Physical education Level 3.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>PHYSICS</b>	
Description	We study motion, forces, energy and momentum; waves and light; static and DC electricity, electromagnetism (electric motors and generators); atoms and radioactivity; and we determine relationships between variables and reduce uncertainties in data. This is an exciting course that will help you make sense of the physical phenomena around you.	
Time allocation	3.5 hours	
Course costs	Course Manual approx \$24 Optional NCEA Study Pack approx \$20	
Special equipment required	Scientific calculator. Graphics calculator an advantage.	
Tutor	Pascal Bouffandeau	
Career relevance	Architecture, Astronomy, Surveying, Engineering, Electronics, Design, Medicine, Computer and Automotive engineering, Aviation, Shipping. ...etc...	
Best in combination with	Maths, Chemistry, Biology, Technology, etc .	
Pre- requisites	Mathematical competence, especially in algebra.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
Phys 2.1	Carry out a practical investigation that leads to a non-linear relationship	4 internal
Phys 2.3	Demonstrate an understanding of waves	4 <b>external</b>
Phys 2.4	Demonstrate an understanding of mechanics	6 <b>external</b>
Phys 2.5	Demonstrate an understanding of atomic and nuclear physics (part included in M.L.)	3 internal
Phys 2.6	Demonstrate an understanding of electricity and electromagnetism	6 <b>external</b>
Total		23 credits
Work requirements	Practical laboratory work, theory and problem solving exercises.	
Homework required	2-3 hours per week.	
Method of assessment	Internally and Externally assessed achievement standards.	
Endorsable	Yes, for Merit and Excellence	
Leads on to	Pre-requisite for Level 3 Physics.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>PRACTICAL ART</b>	
Description	Students are given a broad course that encompasses painting, printmaking, design and sculpture. We focus on each for a term and students skills and ideas are extended in each. They are exposed to the mystery of color in term one, their own image in term two, the Bauhaus design school in term 3 and sculpture in term 4.	
Time allocation	3.5 hours	
Course costs	Approx \$20 per term for Art materials.	
Special equipment required	Pencils (HB, 2B, 6B). A3 Art folder. Paintbrushes– Sizes 2, 3 and 4 preferably.	
Tutor	Rebecca Henderson	
Career relevance	Arts and design, Graphic design, Architecture, Film and television, Theatre, Fine arts. Advertising.	
Pre- requisites	An interest in Art.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
2.1 Painting	Demonstrate an understanding of methods and ideas from established practice appropriate to Painting	4 Internal
2.2 Painting	<i>Title: The theory of color in Art from Impressionism to Expressionism.</i> Use drawing methods to apply knowledge of conventions appropriate to Painting	4 Internal
2.2 Printmaking / Sculpture	<i>Title: The theory of color in Art from Impressionism to Expressionism.</i> Use drawing methods to apply knowledge of conventions appropriate to Printmaking / Sculpture	4 Internal
2.2 Design	<i>Title: The Figure</i> Use drawing methods to apply knowledge of conventions appropriate to Design	4 Internal
2.5 Painting/ Printmaking / Design	<i>Title: The Bauhaus design school.</i> Produce a resolved work that demonstrates control of skills appropriate to cultural conventions	4 Internal
<b>Total</b>		<b>20</b>
Work requirements	Classroom study and regular homework	
Homework required	Approx 2 hours per week. It is usually catch up work.	
Method of assessment	Internally assessed standards.	
Leads on to	Level 3 Design, Painting, Sculpture or Printmaking	
Endorsement	This is not an endorsed subject as there is no external assessment.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>TECHNOLOGY GENERIC : Hard Materials Technology</b>	
Description	This course involves 3 assessments that follow a specified design process referred to as technological practice. This includes choosing a context and a project within this for the brief, writing up the detail of the conceptual design, then making the prototype and describing the methodology taken to achieve this. The course offers skills in design and construction which relies on creativity, decision making and perseverance	
Time allocation	3.5 hours	
Course costs	Students supply their own materials or purchase materials from the school	
Special equipment required	A3 clearfile for Portfolio and depending on the project, equipment may be required beyond what is available in the workshop.	
Tutor	Alan Cummins	
Career relevance	general design, engineering, architecture, building, furniture trades, machinist, art and craft areas, theatre.	
Best in combination with	Art and design, maths, science, music	
Pre- requisites	Good engagement in middle school technology, an interest in design and construction of projects, good organisational and practical skills.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 2.1 AS 91354 AS 2.3 AS 91356 AS 2.4 AS 91357	Undertake a brief development to address an issue Develop a conceptual design for an outcome Undertake effective development to make and trial a prototype	4 Internal 6 Internal 6 Internal
<b>Total</b>		<b>16</b>
Work requirements	A continuous focus on the development and writing up of the project with out-of -class work equivalent to in-class being essential for successful completion of this course	
Homework required	2-3 hours per week. Research work, locating materials, concept development, project writing and construction.	
Endorsable	No	
Method of assessment	Internally assessed achievement standards with due dates for the three assignments during the year. There is a considerable amount of documentation involved in this standard.	
Leads on to	Level 3 Generic Technology, tertiary training, trades, life and practical skills.	

<b>COURSE DETAILS</b>	<b>LEVEL 2</b>	
Course title	<b>TECHNOLOGY - Textiles</b>	
Description	This course involves 3 assignments which include designing and constructing a tailored item, making a costume for the school play and an item of your choosing. It is a practical, hands on course.	
Time allocation	3.5 hours	
Course costs	Students all need to purchase their own fabric for each assignment.	
Special equipment required	Individual A3 workbook and storage folder	
Tutor	Rebecca Henderson	
Career relevance	Fashion design, Costume design, Textiles industry and manufacturing	
Best in combination with	Practical art, Technology, Science.	
Pre- requisites	Basic sewing skills. Class 10 textiles.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
	Unit Standards will be used to assess the work.	
	Total	16 to 18
Work requirements	Individual practical projects and workbooks.	
Homework required	1 hour per week. Access to a sewing machine at home is not a requirement.	
Method of assessment	Each standard is internally assessed upon completion.	
Leads on to	Level 3 Textiles.	
Endorsement	This is not an Endorsed subject and is not on the UE endorsed domain.	

# **Level 3 courses:**

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>PRACTICAL ART: PAINTING, PRINTMAKING OR DESIGN</b>	
Description	With guidance, students select an Art discipline that they plan to explore and undertake a research assignment then a 3 panel folio.	
Time allocation	3.5 hours	
Course costs	Approx \$30-100 for materials including photocopying.	
Special equipment required	<u>For Painting:</u> Pencils (HB, 2B, 6B). A3 Art folder. A3 Visual diary. Access to the Public library. <u>For Printmaking:</u> Pencils (HB, 2B, 6B). A3 Art folder. A3 Visual diary. Access to the Public library. <u>For Design:</u> Extensive knowledge of Photoshop and/or Illustrator. Pencils (HB, 2B, 6B). A3 Art folder. A3 Visual diary. Access to the Public library.	
Tutor	Rebecca Henderson	
Career relevance	Careers in arts and design, architecture, film and television, theatre.	
Best in combination with	Any	
Pre- requisites	Achievement in NCEA Level 2 Practical Art is a must.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
<i>Painting:</i> AS 3.1 (91441) AS 3.4 (91456)	Analyse methods and ideas from established Painting practice. Produce a systematic body of work that integrates conventions and regenerates ideas within Painting practice.	4 Internal 14 <b>External</b>
Printmaking: AS 3.1 (91440) AS 3.4 (91458)	Analyse methods and ideas from established Printmaking practice. Produce a systematic body of work that integrates conventions and regenerates ideas within Printmaking practice.	4 Internal 14 <b>External</b>
Design: AS 3.1 (91440) AS 3.4 (91455)	Analyse methods and ideas from established Design practice. Produce a systematic body of work that integrates conventions and regenerates ideas within Design practice.	4 Internal 14 <b>External</b>
Total		18 for 1 Discipline
Work requirements	Classroom study and regular homework	
Homework required	Approx 3 hours per week.	
Method of assessment	Internally and Externally assessed standards.	
University Entrance	Each discipline counts as a full 14 credit subject.	
Endorsable	Yes counts for Merit and Excellence	
Leads on to	Tertiary studies in the arts.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>HISTORY OF ART</b>	
<b>Description</b>	Art History will cover the topics 14 <sup>th</sup> Century Italian Painting, 15 <sup>th</sup> Century Italian Painting and Italian High Renaissance, providing interesting material for a wide study that can be assessed as achievement standards. Style, Iconography, Context of Art making, media and processes, theories that influence art are some of the topics we explore	
Time allocation	3.5 hours	
Course costs	Contribution to photocopying	
Tutor	Sam Wakelin	
Career relevance	Architecture, graphic design, curatorial work, museum studies, historical research, journalism and general art fields.	
Best in combination with	English, practical art and design, classical studies, physics / maths (towards architecture)	
Pre- requisites	Good comprehension and writing skills, interest in art and architecture.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
ARH 3.1 (AS91482)	Demonstrate understanding of style in art works	4 <b>External</b>
ARH 3.2 (AS91483)	Examine how meanings are communicated through art works	4 <b>External</b>
ARH 3.4 (AS91485)	Examine the relationship(s) between art and context	4 Internal
ARH 3.5 (AS91486)	Examine the impact of media and processes on art works	4 Internal
ARH 3.7 (AS91488)	Construct an argument based on interpretation of research in art history Examine the relationship(s) between a theory and art works	4 Internal
<b>Total</b>		<b>20</b>
Work requirements	Preparation of work for assessment, as well as topic notebooks.	
Homework required	3 hours per week and ongoing research for the personal research topic.	
Method of assessment	Internally and External assessment.	
Leads on to	Study of History of Art, museum studies, graphic design, journalism, etc.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>BIOLOGY</b>	
Time allocation	3.5 hours	
Course costs	\$60 for Ecology camp. \$25 Biology workbook.	
Special equipment required	None	
Tutor	Maxine Ude Shankar	
Career relevance	Careers in Biology, Medicine, Pharmacy, Agriculture and Horticulture, Forestry, Environmental science, Health and Science related field. (general education).	
Best in combination with	Maths, Chemistry, Physics [but not essential].	
Pre- requisites	14 Credits in Biology L2 or in consultation with HOD.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 91601	Carry out a practical investigation in a biological context, with guidance.	4 Internal
AS 91602	Integrate biological knowledge to develop an informed response to a socio-scientific issue.	3 Internal
AS 91604	Demonstrate understanding of how an animal maintains a stable internal environment.	3 Internal
AS 91606	Demonstrate understanding of trends in human evolution.	4 <b>External</b>
AS 91605	Demonstrate understanding of evolutionary processes leading to speciation.	4 <b>External</b>
OPTIONAL AS 91603	Demonstrate understanding of the responses of plants and animals to their external environment.	5 <b>External</b>
<b>Total</b>		<b>18-23</b>
Work requirements	Scientific investigations in lab and field, reading and research	
Homework required	3 hours per week.	
Method of assessment	Internally and Externally assessed achievement standards.	
Endorsable	Yes. Merit and Excellence	
University Entrance	Counts as full 14 credit subject.	
Leads on to	Tertiary education.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>CHEMISTRY</b>	
Time allocation	3.5 hours	
Course costs	\$20 course costs. (Write on practical manual)	
Special equipment required	None, Lab coat very advisable	
Tutor	Katrina Burns	
Career relevance	Medicine, Nursing, Pharmacy, Viticulture and Horticulture, Environmental, Health and Food sciences, Chemical engineering, Material sciences...	
Best in combination with	Maths and/or Biology and/or Physics.	
Pre- requisites	Chemistry L2, Maths L2, (or currently enrolled), <b>or</b> HoD approval.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 90694 Chem 3.1 AS 90698 Chem 3.5 AS 90780 Chem 3.4 AS 90696 Chem 3.3 AS 90695 Chem 3.2	1 Quantitative Investigation in chemistry (int). 3 Organic chemistry (ext) 4 Particles and thermo-chemical principals (ext) 5 Oxidation- reduction (ext) 6 Red-ox titration (int).	4 Internal 5 <b>External</b> 5 <b>External</b> 3 Internal 3 Internal
Total		20
Work requirements	Practical experiments, reading, writing, information gathering. 2~3 hrs of study a week.	
Method of assessment	Internally and Externally assessed achievement standards. - and other tests, and practice exams.	
Endorsable	Yes. Merit and Excellence	
University Entrance	Counts as full 14 credit subject.	
Leads on to	Tertiary education, Industrial chemistry, Environmental chemist, Health sciences, Biotechnology industry, Medicine, Vet Science, Engineering.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>CLASSICAL STUDIES</b>	
Description	Classical Studies is the study of the civilisations of classical Greece and Rome. In classical Greece and Rome are to be found the origins of much of our art, science, literature, law, philosophy, politics and religion. Greeks and Romans produced works which are recognised to be of the very highest quality. Classics is a "multi-disciplinary" subject, including Social and political history, literature and art, which are normally separated in the curriculum. Topics include: Socrates, Aristophanes' comedies, Roman Art and Architecture...	
Time allocation	3.5 hours	
Course costs	None	
Tutor	Sam Wakelin	
Career relevance	Good general background for any career.	
Best	in combination with English	
Pre- requisites	Good standard of written English. At least 15 credits from Level 2 Classics	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
CLS 3.1.	Analyse ideas and values of the classical world.	4 <b>External</b>
CLS 3.2.	Analyse the significance of a work(s) of art in the classical world.	4 <b>External</b>
CLS 3.3.	Analyse the impact of a significant historical figure on the classical world.	6 <b>External</b>
CLS 3.4	Demonstrate understanding of significant ideology(ies) in the classical world.	
CLS 3.5	Demonstrate understanding of the lasting influences of the classical world on other cultures across time	6 Internal
<b>Total</b>		<b>26</b>
Work requirements	Reading and written work, some practical art possible.	
Homework required	2-3 hours per week.	
Method of assessment	Internally and externally assessed achievement standards.	
Endorsement/ University Entrance	Endorsement for Merit/Excellence available. Counts as full 14 credit subject for UE.	
Leads on to	All Tertiary courses in the Humanities field	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>DRAMA</b>	
Description	Level 3 Drama is a great way to build on performance skills already formed in level two Drama. There is a certain amount of choice in this year, the students can pick from a number of assessment options. They can try different areas of the arts from directing to script writing or build on the devising process and theatre form experience. Level 3 Drama students will also be expected to be involved in the upper school play. This is a practical course with assessment being performance based, but supported by written material. There is a Drama exam but this is optional to the students.	
Time allocation	3.5 hours	
Course costs	During the year we will attend one show per term, tickets are usually \$15. 00	
Special equipment required	1x Visual Diary (Bockingford) 1x Clear file. 1x Lined refill	
Tutor	Emma Cusdin	
Career relevance	Professional Music, Performance Arts, Teaching, Film and Media.	
Best in combination with	n/a	
Pre- requisites	Level 1 literacy. Proven commitment from previous school productions and class plays.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91512 As91517 As91573 As 91518	Use Drama techniques in a scripted performance Upper school play Develop and perform drama to create a concept Exam- Optional	4 Internal 5 Internal 5 Internal 4 <b>External</b>
Total		14 or 18 credits
Work requirements	Rehearsing, researching, devising and performing individually and as a group.	
Homework required	Approx 2 hours per week. Commitment to weekend rehearsals during the upper school play is also required.	
Method of assessment	Internal <b>Exam optional</b>	
University Entrance		
Leads on to	NASDA, Broadcasting School, University Study of Fine Arts and Media, NZ Film School, Toi Whakaari (NZ Drama School), Hagle Theatre Company, UNITECH- Acting for Screen, NZ Broadcasting School.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>EARTH AND SPACE SCIENCE</b>	
Time allocation	3.5 hours	
Course costs	\$30 Science workbook.	
Special equipment required	None	
Tutor	Maxine Ude Shankar	
Career relevance	Careers in Geology, Marine Biology, Oceanography, Astronomy, Adventure tourism, Forestry, Environmental sciences, Applied Science, Laboratory Science technician.	
Best in combination with	Biology, Mathematics, Chemistry, Physics but not essential	
Pre- requisites	Genuine interest in subject. L2 Literacy and Numeracy requirements completed. Approval HOD	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 91410	Carry out an independent practical Earth and Space Science investigation.	4 Internal
AS 91411	Investigate a socio-scientific issue in an Earth and Space Science context.	4 Internal
AS 91412	Investigate the evidence relating to dating geological event(s).	4 Internal
AS91415	Investigate an aspect of astronomy.	4 Internal
AS 91413	Demonstrate understanding of processes in the ocean.	4 <b>External</b>
<b>Total</b>		<b>20</b>
Work requirements	Scientific investigations in lab and field, reading and research.	
Homework	1-3 hours per week.	
Method of assessment	Internally and Externally assessed achievement standards.	
Endorsable	Yes. Merit and Excellence	
University Entrance	Approved subject for University Entrance	
Leads on to	Full UE Course leading to Laboratory work or Tertiary Education - Oceanography, Marine Biology, Astronomy, Geology or Environmental Studies.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>ENGLISH</b> – This course is optional for students	
Description	Class 12 English is a full year course that prepares students for NCEA Level Three. English at this level requires a high level of analytical and written language skills to succeed. Students must enjoy literature and language, and be committed to reading regularly and completing the <b>homework</b> tasks. They must be willing engage with the ideas and express their views in writing as well as in oral seminars.	
Time allocation	3.5 hours	
Course costs	Allow \$20 for texts	
Equipment required	1 x A4 Ring-binder with 2 sets of dividers and refill. Pens and highlighters.	
Tutor	Graham Crawford	
Career relevance	Vital for many careers such as law, teaching, architecture, and useful for many others	
Best in combination with	Any subject	
Pre- requisites	UE literacy, including externals.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 91472	3.1 Respond critically to studied written text(s)	4 <b>External</b>
AS 91473	3.2 Respond critically to studied visual text(s)	4 <b>External</b>
AS 91474	3.3 Respond critically to unfamiliar written text(s)	4 <b>External</b>
AS 91475	3.4 Produce a selection of writing	6 Internal
AS 91480	3.9 Respond critically to significant aspects of visual texts.	3 Internal
AS 91475	3.5 Create and deliver an oral text	3 Internal
AS 91479	3.8 Develop an informed understanding of literature	4 Internal
<b>Total</b>		<b>21</b>
Homework required	One hour for each lesson	
Method of assessment	Internally and externally assessed achievement standards	
University Entrance	14 credits in 3 approved subjects at Level 3 or above	
Leads on to	Tertiary study	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>HISTORY</b>	
Description	History examines the past to understand the present. It is a research based discipline. History is about understanding trends and forces at work, as well as causes and consequences of events. There are two possibilities of topics on level 3, either History of Tudor-Stuart England 1558 -1714, or New Zealand history	
Time allocation	3.5 hours	
Course costs	None	
Tutor	Sam Wakelin	
Career relevance	Good general background for any career.	
Best in combination with	English or foreign Languages.	
Pre- requisites	Good standard of written English.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91434	Research an historical event or place of significance to New Zealanders	5 Internal
AS91435	Analyse a historical event, or place of significance to New Zealanders.	5 Internal
AS91436	Analyse evidence relating to an historical event of significance to New Zealanders	4 <b>External</b>
AS91437	Analyse different perspectives of a contested event of significance to New Zealanders	5 Internal
AS91438	Analyse the causes and consequences of a significant historical event	6 <b>External</b>
<b>Total</b>		<b>Up to 25</b>
Work requirements	Reading and written work.	
Homework required	2-3 hours per week.	
Method of assessment	Three Internally and three externally assessed achievement standards.	
Leads on to	All tertiary courses in the Humanities fields	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>HOME ECONOMICS – Food and Nutrition – may not offered in 2019</b>	
Time allocation	3.5 hours	
Course costs	\$150.00	
Special equipment required	Paper, pens coloured pencils when needed.	
Tutor	Kathie La Rooij	
Career relevance	Hospitality, Tourism, catering	
Best in combination with	Any	
Pre- requisites	Cooking and a willingness to do required written work.	
NCEA Qualifications available in this course:		
Subject and standard number	Standard Title	Assessment and credits available
AS91643	Implement complex procedures to process a specified product.	6 Internal
AS91466	Investigate a nutritional issue affecting the well-being of New Zealand society	5 Internal
AS91467	Impliments an action plan to address a nutritional issue affecting the well being of New Zealand society.	5 Internal
AS 91469	Investigate the influence of multinational food corporations on eating patterns in New Zealand society.	5 Internal
<b>Total</b>		<b>20 credits possible</b>
Work requirements	Class room practical cooking sessions and regular theory with assignments. Research report writing.	
Homework required	Up to 30 minutes per night when required.	
Method of assessment	Internal assessment.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>MATHEMATICS      CALCULUS</b>	
Time allocation	3.5 hours	
Course costs	Purchase of a suitable revision workbook/guide (approx \$30)	
Special equipment required	Approved graphical calculator a considerable advantage – available for purchase through the school. Approx \$80	
Tutor	John Suggate / Gritt Enevold	
Career relevance	Science, Physics Chemistry, Technology, Medicine, Engineering, Physical Education, Architecture Dentistry, Acoustics, Economics, Accountancy, Aeronautics, Computer Science, Astronomy, Astrophysics.	
Best in combination with	Physics, Chemistry, Science.	
Pre- requisites	Achieved in at least three of Algebra, Graphs, Calculus, Co-ordinate Geometry at L2. A minimum of Merit in at least one of these subjects.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS3.1 AS3.3 AS3.5 AS3.6 AS3.7 93202	Apply the geometry of conic sections in solving problems Apply trigonometric methods in solving problems Apply the algebra of complex numbers in solving problems Apply differentiation methods in solving problems Apply integration methods in solving problems Scholarship	3 Internal 4 Internal 5 <b>External</b> 6 <b>External</b> 6 <b>External</b> <b>Scholarship</b>
Total		24
Work requirements	Classroom exercises.	
Homework required	2-3 hours per week.	
Method of assessment	Achievement standards. Conics (3.1) and Trigonometry (3.3) internal. Others external.	
Endorsement/University Entrance	Endorsement for Merit/Excellence available. Counts as full 14 credit subject for UE.	
Leads on to	Tertiary study in Maths, Physics, Biology, Chemistry, Engineering, Architecture, Aeronautics (rocket science!), Medicine, Meteorology, Astronomy, Computer Science etc.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>MUSIC</b>	
Time allocation	3.5 hours per week	
Course costs	Private instrumental coach fee Accompanist Costs for booklets Field trips to concerts and festivals Digital audio workstation software costs (if enrolling in music technology or performing arts technology standards). Suitable software is Logic, Ableton Live, Protools or Studio One.	
Special equipment required	A functional instrument (if performing) A laptop with OSX or Windows 8.1-10 with sufficient hard disk space and Office365 apps installed. This laptop should have a suitable digital audio workstation installed (see above) if enrolled in music technology or performing arts technology unit standards.	
Tutor	Hugo Zanker	
Career pathways	Professional musician, performing artist, education, broadcasting, film post production, sound engineering	
Best in combination with	English, photography, drama, physics	
Pre-requisites	Students should have previous musical experience, a growth mindset and passion for music in the 21 <sup>st</sup> century. There may be an entry interview for this course.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
US23730 US28007	<b>Music and Performing Arts Technology</b> Operate music sequencing, editing, and music notation applications Select and apply a range of processes to enhance sound in a performance context	8 Internal 6 Internal
AS91416 AS91417 AS91418 AS91419 AS91420	<b>Making Music</b> Perform two programmes of music as a featured soloist Perform a programme of music as a featured soloist on a second instrument Demonstrate ensemble skills by performing two substantial pieces of music as a member of a group. Communicate musical intention by composing three original pieces of music Integrate aural skills into written representation	8 Internal 4 Internal 4 Internal 8 Internal 4 <b>External</b>
AS91849	Compose three original songs that express imaginative thinking	8 Internal
AS91421 AS91425	<b>Music Studies</b> Demonstrate understanding of harmonic and tonal conventions in a range of musical scores Research a music topic	4 <b>External</b> 6 Internal, UE reading
Standards from the above options will be chosen for a total of		18-22
Work requirements	Attendance to all classes, solo tuition, extra-curricular involvement in the school music programme (including the Play) Rehearsing, Workshopping and Performing. Aural Tests. Working with PA and DAW(Music Tech)	
Homework required	Approx 3 hours per week.	
Method of assessment	Internal ongoing assessment for all except AS91420 and AS91421 which are external examination	
University Entrance	Yes	
Leads on to	University entrance, tertiary Performing Arts Colleges, Jazz school, Study of Arts and Humanities, Sound Engineering Courses.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>PHYSICAL EDUCATION</b>	
Description	The course continues form level 2 Physical Education. Anatomy and boimechanical principles are applied in the sporting context. Students will analyse a skill and develop the idea of lifelong well-being. Students also look contemporary leadership in Physical contexts and use Upper school camp to see these processes in action. We do a variety of practical activities and fun and exciting sports and P.E. tries to be as practical as possible. Participating in a ropes course is an example of one of the physical activities that is used for assessment and learning.	
Time allocation	3.5 hours	
Course costs	Up to \$150 for ropes course, event entry costs other course physical activities and a Physical Education workbook	
Special equipment required	Suitable exercise clothing.	
Tutor	Alan Te Moananui	
Career relevance	Adventure Tourism, Outdoor Education, Sport and Recreation, Physical Education, Sport Coaching and Fitness Industry.	
Best in combination with	Biology	
Pre- requisites	14 credits in level 2 Physical Education or in consultation with the HOD.	
<b>NZQA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91500 (3.3)	Evaluate the effectiveness of a performance improvement programme	4 Internal
AS91499 (3.2)	Anaylse a physical skill performed by self or others	3 Internal
AS91498 (3.1)	Evaluate physical activity experiences to devise strategies for lifelong well-being	4 Internal
AS91505 (3.8)	Examine contemporary leadership principles applied in physical activity contexts	4 Internal
AS91501 (3.4)	Demonstrate quality performance of a physical activity in an applied setting	4 Internal
Total		19
Work requirements	Approximately 40% physical activity, including gym training, camp, physical skill learning and skill performance; 60% classroom and laboratory work.	
Homework required	Various assignments, average 2-3 hours per week.	
Method of assessment	All <b>Internally assessed</b> Achievement Standards.	
Endorsable	Yes, for Merit and Excellence	
Leads on to	University entrance – 14 credits	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>PHYSICS</b>	
Description	We study motion, forces, energy and momentum; waves and light; electrical systems; atomic theory; and we determine relationships between variables and process uncertainties in data. This is an exciting course that will allow you to go deeper in your understanding of the physical world.	
Time allocation	3.5 hours	
Course costs	Course Manual approx \$24 Optional NCEA Study Pack approx \$20	
Special equipment required	Scientific calculator. Graphics calculator an advantage.	
Tutor	Pascal Bouffandeau	
Career relevance	Architecture, Astronomy, Aviation, Draftsmanship, Engineering, Electronics, Design, Medicine, Computer and automotive engineering, Shipping, Surveying,. ...etc...	
Best in combination with	Maths, Chemistry, Biology and Technology	
Pre- requisites	L2 Physics, L2 Maths, (or currently enrolled), or HoD approval.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
3.1 3.3 3.4 3.5 3.6	Physics in context with Mathematical relationship Wave phenomena Mechanics Modern Physics Electrical systems Scholarship	4 internal 4 <b>external</b> 6 <b>external</b> 3 internal 6 <b>external</b> <b>Scholarship</b>
Total		23
Work requirements	Practical laboratory work, theory and problem solving exercises.	
Homework required	2-3 hours per week.	
Method of assessment	Internally and externally assessed achievement standards.	
Endorsement/University Entrance	Endorsement for Merit/Excellence available. Counts as full 14 credit subject for UE.	
Leads on to	Tertiary study in Physics, Engineering, Architecture, Aeronautics (rocket science!), Meteorology, Astronomy, etc	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>PHOTOGRAPHY/MEDIA</b>	
Description	Students chose to work in the discipline of Photography or Moving Image. In Photography, the work of photographers and the elements and principles of photographic design are studied. Students <b>complete</b> a photographic folio on a theme of their choice. In <b>Moving Image</b> stop motion, video production and design are studied. Students complete a digital folio based around a video production of their choice.	
Time allocation	3.5 hours	
Course costs	Photography Approximately \$50 for HQ photo paper and proofing. Moving Image no cost	
Equipment	Clearfile A good digital SLR camera (with video if considering Moving Image) 4 – 16 Gb USB memory stick	
Tutor	Neville Campbell	
Career relevance	Fine arts and design, graphic design, architecture, film and television, theatre, photo journalism, fashion photography, motion graphics animator, advertising, medicine, scientific photography, sports and celebrity photographer, illustration	
Best combination	English, Visual art, history of Art and Design and all of the Sciences	
Pre- requisites	Level 2 Photography/Media Studies an advantage. Students without Level 2 Photography who have an interest in Photography/Video and who are comfortable with technology should see tutor regarding course entry.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS 91460 Internal	Produce a resolved work that demonstrates purposeful control of skill appropriate to a visual arts context	4 Photography
AS 91457 <b>External</b>	Produce a systematic body of work that integrates conventions and regenerates ideas within photography practice	14 Photography
AS 91460 Internal	Produce a resolved work that demonstrate purposeful control of skills appropriate to a visual arts cultural context	4 Moving Image
AS 91455 <b>External</b>	Produce a systematic body of work that integrates conventions and regenerates ideas within design practice	14 Moving Image
Total		<b>18 Photography 18 Moving Image</b>
Homework	Throughout the year.	
Assessment	Internal and External Assessment	
UE	Counts as a full 14 credit subject.	
Endorsement	Excellence and Merit Endorsement.	
Leads on to	Tertiary Art, Design, Photography, Film and Television courses	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>PRESENTATIONS* Compulsory</b>	
Description	Students will choose a topic, in consultation with the tutor, based on personal interest. They will plan, research and develop a presentation for the end of the year.	
Time allocation	1 hours classroom time per week	
Course costs	Variable depending on the nature of the topic chosen	
Special equipment required	None	
Tutor	Neville Campbell	
Career relevance	Developing self motivation in research and planning. Confidence in speaking in public. Skills which are relevant to all potential career choices.	
Best in combination with	Any subject.	
Pre- requisites	Self motivation, research, note taking and planning skills.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
Level 3 US 3491 Level 3 US 2990 Level 3 US 1307	Writing Reading Interpersonal Communications	4 Internal 4 Internal 3 Internal
<b>Total</b>		<b>11</b>
Work requirements	During class time the tutor will provide planning support, motivation and discussion. Students are encouraged to choose a specialist mentor. Individual study outside of allocated class time is essential.	
Homework required	Individual research, planning and preparation of practice presentations to the class.	
Method of assessment	Attendance, Teacher observation and discussion with student. Practice and final presentation, submission of planning and research notes.	
Endorsable	Endorsement not available	
University Entrance	Not an approved subject for University Entrance	
Leads on to	University, any activity which involves finding out about something and explaining it to others	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>TECHNOLOGY - Textiles</b>	
Description	This course involves 3 assignments which include designing and constructing a complex garment, taking a lead in designing and making costumes for the school play and an item of your choosing. It is a practical, hands on course and all work is to be neatly stored and documented.	
Time allocation	3.5 hours	
Course costs	Students all need to purchase their own fabric for each assignment.	
Special equipment required	Individual A 3 workbook and storage folder.	
Tutor	Rebecca Henderson	
Career relevance	Fashion design, Costume design, Textiles industry and manufacturing.	
Best in combination with	Practical art, Technology, Science.	
Pre- requisites	Ability to demonstrate adequate sewing skills. Students must be able to follow a basic sewing process.	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
Unit Standards will be used to assess the work		6
Total		16 - 18
Work requirements	Individual practical projects and workbooks.	
Homework required	1 hour per week. Access to a sewing machine is not a requirement.	
Method of assessment	Unit standards. Each standard is assessed upon completion.	
Leads on to	Fashion design courses at CPIT, Massey, Auckland Unitec and Dunedin polytech. Qualifications range from Certificate to Bachelor and further opportunities to train within the industry.	
Endorsed subject	This is not an Endorsed subject and is not on the UE endorsed domain.	

<b>COURSE DETAILS</b>	<b>LEVEL 3</b>	
Course title	<b>TECHNOLOGY - GENERIC Hard Materials Technology</b>	
Description	This course involves 3 assessments that follow a specified design process referred to as technological practice. This includes choosing a context and a project within this for the brief, writing up the detail of the conceptual design, then making the prototype and describing the methodology taken to achieve this. The course offers skills in design and construction which relies on creativity, decision making and perseverance	
Time allocation	3.5 hours	
Course costs	Students supply own materials or purchase materials from the school.	
Special equipment required	A3 Clearfile for Portfolio work and depending on project, equipment may be required beyond what is available in the workshop.	
Tutor	Alan Cummins	
Career relevance	Engineering, building, furniture trades, machinist, design and technology, art and craft areas. Architecture. Theatre. <i>This course does not meet UE requirements.</i>	
Best in combination with	Art, Maths, Science.	
Pre- requisites	14 Level 2 Credits Technology but not essential , an interest in design and construction of projects, good organisational and practical skills	
<b>NCEA Qualifications available in this course:</b>		
Subject and standard number	Standard Title	Assessment and credits available
AS91608	Undertake a brief development to address an issue within a determined context	4 Internal
AS 91610	Develop a conceptual design considering fitness for purpose in the broadest sense	6 Internal
AS91611	Develop a prototype considering fitness for purpose in the broadest sense.	6 Internal
Total		16
Work requirements	A continuous focus on the development of the project, out-of-class work equivalent to in-class work are essential for successful completion of this course.	
Homework required	Research work, locating materials, concept development.	
Method of assessment	Combination of Unit and Achievement standards assessed throughout the year.	
University Entrance	Not sufficient Achievement Standard credits to be used towards UE.	
Leads on to	Tertiary training, Trades, Life skills	

# *Appendices*

# Appendix 1

## Christchurch Steiner Certificate

This certificate (CSC) will be issued on satisfactory completion of each year of education at the Christchurch Rudolf Steiner School in Class 10, 11 and 12 (Year 11, 12, 13). The certificate will be issued as a Level 1 in Class 10, Level 2 in Class 11, Level 3 Class 12.

- Requirements: satisfactory completion of:
  - all Main Lessons
  - all subject lesson requirements
  - Year/Term Projects
  - Work Experience Week
  - Drama Week
  - Camp Week
  - Red Cross Certificate week (in class 10)
  - Any other activities that arise as part of the years work
- Each activity involves a number of elements on which it will be assessed. For example most main lessons involve three main elements:
  - Classroom participation/activity
  - Creation of a workbook/folder
  - A summative assessment activity (usually a test)Each of these three elements will have minimum criteria, which **must** be met. Usually the achievements in each element will be combined into an overall grade which must meet a set standard for the Main Lesson to be 'passed'.
- Opportunities will be provided to 'catch up' on activities not passed, where practicable.
- Each activity may be passed with one of three grades:
  - A – achieved
  - M – achieved with merit
  - E – achieved with excellence
- Where the overall assessment of an activity is below the level of achieved it **may** still meet the requirements for 'minimal acceptable performance', (MAP) if it is considered to be the students best effort.
- The certificate will be issued in three grades:
  - Excellence           At least 70% excellences across all subjects, no MAPs or Ns
  - Merit                   At least 70% merits or excellences across all subjects, no Ns
  - Achieved               At least 70% achieved or better across all subjects, no Ns
- To progress to the following years work each student must meet the MAPs in all activities. MAPs may be described by an Individual Education Plan (IEP) where appropriate.
- Extended absence for illness, injury or other acceptable reason will not automatically disqualify from attainment of the certificate, or progression to the following years work.

Eligibility for the certificate at Level 3 is dependent on achieving at least NCEA Level 2 or equivalent.

## Appendix 2

### Option Lines example

Example of a possible set of option lines for 2017 for you to see how it works. Once we have your actual choices we will refine or even rebuild the lines from scratch, if necessary, to make the best possible fit.

However courses will only be run if there are sufficient student numbers, so in reality we are likely to end up offering fewer subjects than are listed here.

Option A	Option B	Option C	Option D	Option E
ENG2 (RRo) ENG2 (GC) [Compulsory]	BIO2 (KB) CLT2/3 (RH)	MAT2 (GE) MAP2 (JS)	CLS2 (TBA) PHY2 (PB)	PHO2 (NCa) CHE2 (KB)
CHE3 (KB)	PED2/3 (TBA)	ARP2 (RH)	FNT2 (KR)	AHI2 (TBA)
AVI3 (RH)	PHY3 (PB)	TEC2/3 (AC)	MUS2/3 (HZ)	DRA2/3 (EC)
AHI3 (TBA)	APH3 (NCa)	CLS3 (TBA)	ENG3 (NCa)	MAC3 (JS)
		BIO3 (MU)		ESS3 (TBA)

## Appendix 3

### *Option Choice Forms:*

## CLASS 11: 2019

Fill in this form to tell us which of the optional courses to be offered in 2019 you wish to enrol for.

Students are expected to complete all ML's (equivalent to two subjects), English and three optional subjects. In certain cases, it may be possible to vary this expectation e.g. a fourth option if approved by the Academic Dean and HOD.

### **FOURTH CHOICE**

- Please **ALL include a fourth choice**. This choice may be helpful when we look at all possible option scenarios.
- Remember that you we may not be able to structure option lines to ensure no clashes, which means you may not get all your chosen options. In this case we will use the fourth option where possible.

**\*\*Please tick the box if you intend to include this 4<sup>th</sup> choice as part of your programme i.e. you wish to take on a course over and above the required number of courses.** Note this is not usual practice and only certain students will be accepted into such a programme.

<b>NAME:</b>		
Compulsory Main Lesson subject	Main lesson eg HUMANITIES	
Compulsory Main Lesson subject	Main lesson eg GENERAL SCIENCE	
Compulsory Subject	ENGLISH	
My <b>FIRST</b> preferred option	Course:	
	Level (Where applicable):	
My <b>SECOND</b> preferred option	Course:	
	Level (Where applicable):	
My <b>THIRD</b> preferred option	Course:	
	Level (Where applicable):	
My <b>FOURTH</b> preferred option	* Read Above Course:	
	Level (Where applicable):	

□ (\*\* Read above) Tick ✓ box: if you intend to do an extra subject over and above a usual class 11 programme.

## CLASS 12: 2019

Fill in this form to tell us which of the optional courses to be offered in 2019 you wish to enrol for.

Students are expected to complete all ML's (equivalent to two subjects), and four optional subjects. In certain cases, it may be possible to vary this expectation e.g. a fifth option if approved by the Academic Dean and HOD.

### **FIFTH CHOICE**

- Please **ALL include a FIFTH choice**. This choice may be helpful when we look at all possible option scenarios.
- Remember that you we may not be able to structure option lines to ensure no clashes, which means you may not get all your chosen options. In this case we will use the fifth option where possible.

**\*\*Please tick the box if you intend to include your 5<sup>TH</sup> choice as part of your programme i.e. you wish to take on a course over and above the required number of courses.** Note this is not usual practice and only certain students will be accepted into such a programme.

<b>NAME:</b>		
Compulsory Main Lesson subject	Main lesson eg HUMANITIES	
Compulsory Main Lesson subject	Main lesson eg GENERAL SCIENCE	
My <b>FIRST</b> preferred option	Course:	
	Level (Where applicable):	
My <b>SECOND</b> preferred option	Course:	
	Level (Where applicable):	
My <b>THIRD</b> preferred option	Course:	
	Level (Where applicable):	
My <b>FOURTH</b> preferred option	Course:	
	Level (Where applicable):	
My <b>FIFTH</b> preferred option	* Read Above Course	
	Level (Where applicable):	

□ (\*\* Read above) Tick ✓ box: if you intend to do an extra subject over and above a usual class 12 programme.