

## YEAR 12 COURSE OF STUDY

All students must select five subjects that are studied five periods a week. Students also have two study periods per week. NCEA Level 2 courses consist of: some internal and a majority of external Achievement Standards (code 201), a combination of Achievement Standards and Unit Standards (code 202) or Unit Standards (code 203). All Year 12 students must take a course in English. (In exceptional circumstances the Te Reo Māori course can be used to satisfy the University Entrance Literacy requirement.) Mathematics, while not compulsory, is recommended. English and Mathematics have three streamed courses. Placement in the stream courses is dependant on meeting entry requirements that are based on NCEA Level 1 results. Students should read the entry requirements of their proposed subjects carefully.

### The full list of Year 12 Subjects is:

Accounting	ACC201	Geography: The Environment & People	GEO201
Art: Graphic Design & Photography	ARD201	Graphics	GRA201
Art: Practical Art	ARP201	History	HIS201
Biology	BIO201	Horticultural Science	HSC202
Chemistry	CHE201	Hospitality	HOS203
Chinese	CHI201	Japanese	JPE201
Classical Studies	CLS201	Journalism	JOU202
Computer Applications Technology	CAT203	Māori – Te Reo Māori	MAO201
Computer Graphics and Design	CGD203	Materials Technology (Metal Based)	MTM203
Computer & Information Technology – Multimedia	CPM202	Materials Technology (Wood Based)	MTW203
Computer & Information Technology – Programming & Hardware	CPH202	Mathematics Achievement Standards	MAT201
Drama	DRA201	Mathematics Intermediate	MAT202
Economics	ECO201	Mathematics Unit Standards	MAT203
Electronics & Software Design	ESD303	Music	MUS201
Employment Skills	ESK203	Outdoor Recreation	ODR203
English Achievement Standards	ENG201	Physical Education	PED201
English Intermediate	ENG202	Physical Education & Recreation	PED203
English Literacy	ENG203	Physics	PHY201
English for Speakers of Other Languages (Upper Intermediate Level)	ESL202	Science Achievement Standards	SCI201
Food & Nutrition	FDN202	Science Unit Standards	SCI203
French	FRE201	Social Studies	SOS201
		Textile Technology	TTY202
		Tourism	TOU203

### How Does a Student Gain the NCEA Level 2 Qualification?

To qualify for an NCEA Level 2 qualification a student must have a total of 80 credits. 60 of these must be at Level 2 or higher. The other 20 credits can be at any level and can include Level 1 credits gained in previous years (even if they were used to gain a Level 1 Certificate). There are no Numeracy or Literacy requirements for NCEA Level 2. A student can obtain NCEA Level 2 with Merit or Excellence endorsements. A Merit endorsement requires 50 Level 2 (or above) credits at Merit or Excellence. An Excellence endorsement requires 50 Level 2 (or above) credits at Excellence.

General information about assessment procedures will be available at the start of the year in the Assessment Booklet. Specific details of assessments in each subject will be given to students by subject teachers. Both Achievement Standards and Unit Standards offer credits and regardless of whether they are Achievement Standard credits or Unit Standard credits, they all count towards a student's NCEA Level 2 qualification.

### Other Programmes for Year 12 Students:

**Leadership Training:** At the end of the year, all students have the opportunity to take part in a Leadership Training Programme designed to help them in their role as Peer Support leaders the next year.

### Helpful Hints on Course Choices at Year 12

- Give careful thought to your choices the year before. Classes can fill up and there are limits to class size.
- Where you experience a clash with the subject lines, have alternative options in your mind.
- Assess your performance realistically – this means look *carefully* at *entry requirements*. After your exam results are available, you need to check that you have met entry requirements.
- Be prepared when you come to course counselling. You will have to make decisions.
- Plan ahead: Look at the Year 13 courses and check you can meet the entry requirements for the Year 13 courses you would like to study, with the Year 12 courses you choose.

## ACCOUNTING – ACC201

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$30.00 (Workbook).

**Entry Requirements:** Students who have gained two of the accounting standards offered in Level 1 Economics/Accounting gain automatic entry. Students with no background can be admitted at the HOD's discretion.

**Course Outline:**

- AS90220 Conceptual basis of accounting for a sole proprietor.
- AS90223 Accounting processes for accounting subsystems.
- AS90224 Financial statements and related accounting entries for sole proprietors.
- AS90225 Analyse and interpret information and make recommendations for a sole proprietor.

**Where Does It Lead?** Year 13 Accounting/ Scholarship and tertiary study.

**For Further Information See:**  
Miss K McGuinness.

## ART: GRAPHIC DESIGN & PHOTOGRAPHY – ARD201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Course fee \$25.00 or \$35.00 for two art subjects, plus up to \$200.00 materials. Suitable S.L.R. camera strongly recommended but not essential. School camera hire \$50.00.

Note: Photography is a very expensive course. Students and caregivers need to be aware of this.

**Entry Requirements:** Minimum of 21 credits in NCEA Level 1 Art (or HOD's recommendation).

**Course Outline:** Half the year is dedicated to the study of Photography whilst the other half is dedicated to the study of Design

Photography topics include traditional black and white photography, darkroom procedure and digital processes. Design study includes basic design principles and introduction to computer graphics and other design techniques.

**Where Does It Lead?** This course will provide a sound basis for further study at Year 13, and/or beyond, at any of the Schools of Art and Architecture, Animation, Craft/Design, Film, Television and Photography courses.

**For Further Information See:**  
Mr S Eng, Mr H Knutson.

## ART: PRACTICAL ART - ARP201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Course fee \$25.00 or \$35.00 for two art subjects, plus up to \$180 for personal materials.

**Entry Requirements:** Minimum of 21 credits in NCEA Level 1 Art (or HOD's recommendation).

**Course Outline:** This course is intended for those students who wish to pursue a broad art interest in terms of formal art study. Areas of study include painting, print-making, and sculpture, and related drawing techniques.

Half of the year is dedicated to the study of Painting whilst the other half of the course is dedicated to either Printmaking or Sculpture.

**Where Does It Lead?** To a further understanding of existing methods and ideas, which underlie the making of art.

This course will provide a sound basis for further study at Year 13, and/or beyond, at any of the Schools of Art and Architecture, Animation, Craft/Design, Film, Television and Photography courses.

**For Further Information See:**  
Mr S Eng.

## BIOLOGY – BIO201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Field trip transport \$20.00. Course manual \$20.00 and revision books approximately \$40.00.

**Entry Requirements:** In general, students from SCI101 or 102 can qualify. Automatic entry to this course requires at least a merit in AS90188 (biology) and achievement in AS90189 (chemistry) and AS90186 (practical). OR achievement in US18971 (genetics) and US6289 (micro organisms) as well as an external science paper. Students not meeting one of these criteria need to seek approval from the HOD.

**Course Outline:**

- Carry out a practical biological investigation with supervision (AS90457).
- Describe genetic variation and change (AS90459).
- Investigate an interrelationship or pattern in an ecological population or community (AS90460).
- Investigate diversity in animals (AS90462).
- Describe cell structure and function (AS90464).
- Two Unit Standards totalling 6 credits will also be offered.

There are two internal unit standard assessments and one internal achievement standard during the year, with four external assessments at the end of the year.

**Where Does It Lead?** Year 13/Scholarship Biology, Polytechnic Nursing, New Zealand Certificate of Science courses, Occupational Therapy, University Biology courses, Veterinary Science, Optometry, Medical Degree, Horticulture/agriculture fields, etc.

**For Further Information See:**

Miss R Saxton.

## CHEMISTRY – CHE201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Laboratory manual \$20.00, course book \$20.00 and revision book \$17.00.

**Entry Requirements:** In general students from SCI101 can qualify. Automatic entry to this course requires at least a merit in AS90189 (chemistry) and achievement in AS90191 (physics), AS90186 (practical) and Algebra. Students not meeting one of these criteria need to seek approval from the HOD.

**Course Outline:** Some of the Chemistry from Level 1 is developed further, and new topics are introduced. There is a core section of seven main topics:

- Atomic structure and bonding (AS90308).
- Quantitative Chemistry (calculations etc) (AS90763 Internal).
- Oxidation – reduction (AS90311).
- Organic substances (carbon compounds) (AS90309).
- Physical Chemistry (reactions) (AS90310).
- Ions in solutions (AS90305 Internal).
- Titrations (AS90306 Internal).

There are a large number of experiments incorporated into all these areas.

There are three internal achievement standards during the year, with four external assessments at the end of the year.

**Where Does It Lead?** Year 13/Scholarship Chemistry and on to Polytechnic or University. It is a prerequisite for a large number of jobs

(eg. Veterinary, Physical Education, Medicine, and is widely recognised as an advantage in others such as Nursing, Engineering, Technicians and Agricultural diplomas and Radiography).

**For Further Information See:**

Mr P van Leeuwen.

## CHINESE (Modern Standard) CHI201

**Qualification:** NCEA Level 2.

**Approximate Cost:** None.

**Entry Requirements:** At least three Achievement Standards (one must be external) in NCEA Level 1 Chinese or by negotiation with TIC Chinese.

**Course Outline:** Year 12 revises and extends work studied in Year 11 and builds on this base. Students will be encouraged to strive for personal independence to achieve a recognition level of 470 Chinese characters and write 270 of these.

Students will be able to understand some selected media items eg weather forecasts and advertisements, respond to predictions, report events, express opinions on the topics studied.

Cultural aspects will be integrated with language study. Practice will be in groups and pairs. Audio tapes, videos, computers and visual aids will be an integral part of study.

**Where Does It Lead:** Year 13/Scholarship Chinese and thereafter in intensive courses (full time) at polytechnic, studied at university or used in employment in the fields of business, tourism and education, banking, telecommunication and computing.

**For Further Information See:**

Mrs T Yee.

## CLASSICAL STUDIES – CLS201

**Qualification:** NCEA Level 2.

**Approximate Cost:** ESA Study Guide \$40.00, photocopying charge \$10.00. Other costs may include field trips, exhibitions, or hearing guest speakers.

**Entry Requirements:** Entry into 202 or 201 English.

**Course Outline:** A multi-disciplinary subject that covers art, history, literature and philosophy of the ancient Greek and Roman. Topics covered include: Greek Mythology, Athenian Architecture and Sculpture, Greek Tragedy and Roman Social Life. These ancient civilisations provide the foundations for concepts that can still be found today and are relevant to New Zealand life. In studying Classics we

are studying the origins of culture which in turn helps us to understand the present.

Classical Studies provides the opportunity to gain 23 credits; 2 internal assessments totalling 9 credits and 2 external assessments worth 5 credits each. There is also an opportunity to sit a Unit Standard worth 4 credits

The course of 24 credits (9 internal, 15 external). Assessment consists of assignments and an external examination. Students will complete practice assessments throughout the year for Achievement Standards 2.1, 2.2 and 2.3.

**Where Does It Lead?** Year 13 Classical Studies and then Tertiary studies. Classical Studies is beneficial for a wide range of careers such as foreign affairs, trade and industry, university administration, archaeology, law, architecture, drama, museums and art galleries, journalism and teaching.

**For Further Information See:**  
Ms K Wilson.

## COMPUTER APPLICATIONS TECHNOLOGY – CAT203

**Qualification:** NCEA Level 2.

**Course Length:** One year.

**Approximate Cost:** Students are required to print out their work for assessment. This is achieved through a charge system using a Top-Up Card. Students can purchase print top-up cards from the office or library and must have their print account in credit at all times. These cards are available in \$1, \$2 and \$5 amounts.

**Entry Requirements:** Open entry.

**Course Outline:** This course focuses on developing a range of computing skills in a range of common software applications. Students will create and enhance documents, manipulate spreadsheets, develop design skills to produce printed and web media.

The course will help students to build confidence in text entry, techniques in computer graphic drawing and an understanding of web layout and functionality. It is targeted at students who want to have a firm foundation in Applications for business, administration or general computing use.

Students completing this course will have an understanding of document layout for printed media, using spreadsheets for financial matters and setting up a basic website on a given topic, introduction to databases.

**Where Does It Lead?** Year 13 Computer Applications Technology.

**For Further Information See:**  
Mrs B Clark.

## COMPUTER GRAPHICS AND DESIGN – CGD 203

**Qualification:** NCEA Level 2.

**Approximate Cost:** Materials fee \$5.00. A memory stick is recommended for data storage and transfer.

**Entry Requirements:** 12 credits or better in NCEA Level 1 Graphics or any Level 1 Materials Technology or by negotiation with the HOD. Class size maximum 20.

**Course Outline:** This course provides students with the opportunity to use industry-based software in a variety of design and software learning experiences that are challenging and creative. A design brief approach is used to give students real activities they can use the software for, building knowledge and producing final solutions. Graphics software will be appropriate to the design tasks that include:

- Product design and Engineering using Solid modeling using *Solidworks*.
- Architecture using *ArchiCAD*.
- Media using *Freehand and Photoshop*.

Students are required to keep a visual diary of design sketches and developmental prints, documentation of progress and evaluate their work in note form. Students should produce high quality work that is accurately detailed.

**Where Does It Lead?** Graphics in Years 12, 13 and Scholarship, Polytechnic courses in; design, graphics, architectural draughting, CAD design, Product design, Media graphics, mechanical drawing, quantity surveying, Technology courses. University studies in; Design, Graphics, Architecture, Engineering, Technology.

**For Further Information See:**  
Mr E Wright.

## COMPUTER & INFORMATION TECHNOLOGY – MULTIMEDIA CPM202

**Qualification:** NCEA Level 2.

**Course Length:** One year.

**Approximate Cost:** Students are required to print out their work for assessment. This is achieved through a charge system using a Top-Up Card. Students can purchase print top-up cards from the

office or library and must have their print account in credit at all times. These cards are available in \$1, \$2 and \$5 amounts.

**Entry Requirements:** Have completed ICT101 or by negotiation with the HOD.

**Course Outline:** The Year 12 CIT – Multimedia course builds and expands upon the skills and knowledge that students have developed in multimedia disciplines in Years 9, 10 and 11. The course develops core multimedia knowledge, skills and experience.

Multimedia is about presenting information in an interactive way using the power of the computer and topics covered may aid students who are interested in subjects like Media Studies and design courses.

Students completing this course will have an understanding of the design process, the relationship between digital technologies and design software, and how to link to careers in multimedia, graphic design, animation, printed and digital media.

**Where Does It Lead:** Year 13 Computer & Information Technology.

**For Further Information See:**  
Mrs B Clark.

## COMPUTER & INFORMATION TECHNOLOGY – PROGRAMMING & HARDWARE CPH202

**Qualification:** NCEA Level 2.

**Course Length:** One year.

**Approximate Cost:** Students are required to print out their work for assessment. This is achieved through a charge system using a Top-Up Card. Students can purchase print top-up cards from the office or library and must have their print account in credit at all times. These cards are available in \$1, \$2 and \$5 amounts.

**Entry Requirements:** Have completed 10CPG or ICT101 or by negotiation with the HOD. Students need to be good logical and abstract thinkers. Students should have achieved Achievement Standards 90147 or 90799 (algebra) from MAT101.

**Course Outline:** The Year 12 CPH – Programming and Hardware course builds and expands upon the skills and knowledge that students have previously developed in programming disciplines in Year 10 and 11. The course is suitable for students who are interested in software programming and game design careers. The hardware part of the course looks at the technical aspects of computers.

Students completing this course will have an understanding of a range of computer technologies (hardware, software, networking) and how to link to careers in Computer Science and Information Technology Systems.

**Where Does It Lead?** Year 13 Computing & Information Technology.

**For Further Information See:**  
Mrs B Clark.

## DRAMA – DRA201

**Qualification:** NCEA Level 2

**Approximate cost:** \$70 includes two evening performances at the Court Theatre, a course workbook, a field trip and workshops.

**Entry Requirements:** Minimum of 14 credits in Level 1 Drama.

**Course Outline:** This course is based around Level 7 of the National Curriculum. The course is of particular use to Year 12 students who are interested in Drama and who want to get academic recognition for the performances presented throughout the year.

A Portfolio of the year's work is kept and assessed. The assessment of practical skills and attitudes to practical situations will form a major part of the total assessment.

The achievement standards covered are:

AS90300 – Apply drama techniques in a group within a scripted context.

AS90301 - Use elements and conventions to structure, record and perform devised drama (4 credits internal).

AS90302 - Apply knowledge of drama/theatre of a form or period through performing a role in a presentation (5 credits – internal) – Elizabeth Theatre.

AS90303 - Perform an acting, technical or production role in a significant production (5 credits – internal).

AS90304 - Apply knowledge of, respond to and make judgements about drama processes and performance (5 credits – external).

**Where Does It Lead?** The Year 12 drama curriculum will provide exciting opportunities for students to develop higher level academic, technological, practical and life skills. The basic skills and attitudes learned in Drama can be used through and beyond a school career.

Students attaining 14 or more credits in this course can continue with Year 13 Drama.

**For Further Information See:**  
Mrs S McLean.

## ECONOMICS – ECO201

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$35.00 (Workbook, NCEA revision guide and exercise books).

**Entry Requirements:** Students who have gained two of the standards offered in level 1 Economics/Accounting gain automatic entry. Students with no background can be admitted at the HOD's discretion.

**Course Outline:**

Economics

- AS90794 Price stability.
- AS90795 International trade.
- AS90796 Economic Growth.
- AS90797 Statistical data in relation to current economic issues.
- AS90798 Government policies in relation to economic issues.

The course looks at issues currently facing the New Zealand economy, and will enhance your ability to understand the importance of the economic information you receive daily through the media.

**Assessment:** End of topic tests, NCEA externals.

**Where Does It Lead?** Year 13/Scholarship Economics, tertiary study.

**For Further Information See:**  
Mr S Douce.

## ELECTRONICS & SOFTWARE DESIGN – ESD303

**Qualification:** NCEA Level 3, National Certificate in Electronics Technology (Level 3), University Entrance approved subject.

**Course will run subject to sufficient numbers of students enrolling.**

**Approximate Cost:** \$30.00

**Entry Requirements:** Students who have gained credits in NCEA Level 2 Physics AS90257 or have gained credits in three Electronics Standards offered at Level 2 have automatic entry. Others will be considered by negotiation with the Teacher in Charge.

**Course Outline:** This Year 13 course can be studied by Year 12 students. It provides an introduction to micro-processor and robotic technologies. The design of electronic products controlled by micro-processors

is one of the fastest growing technology areas and provides excellent job opportunities.

Students will discover how microprocessors work and learn how to program them, based on the PICAXE system. Extension into "C" programming is possible.

Students will design and build their own micro-processor controlled product and there is the opportunity to extend this into robotics control.

Students will work towards the National Certificate in Electronics Technology (Level 3) comprising:

- |                            |         |
|----------------------------|---------|
| • Microprocessors          | US19747 |
| • Diode BJT MOSFET         | US19743 |
| • Digital and Analogue     | US19744 |
| • Signals and Transmission | US19745 |
| • Reliability              | US19746 |
| • Product Development      | US9221  |

It is expected that students will take part in the Bright Sparks Mentoring Programme run by the ETITO and enter the Bright Sparks Competition.

**Where Does It Lead?** Polytechnic or university and excellent employment opportunities. Electronics is one of the fastest growing industries in New Zealand and Christchurch is the major centre.

Careers include Electronic Engineering, Electrical Contracting and Electronics technician apprenticeships. This qualification can provide preference for entry to some tertiary courses.

**For Further Information See:**  
Mr L Yang.

## EMPLOYMENT SKILLS - ESK203

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$10.00 Course booklets.

**Entry Requirements:** Open entry.

**Course Outline:** The course will concentrate on skills desired by employers and aims to prepare students for life beyond school. Work Exploration is a part of this course.

Competency based assessment.

**Where Does It Lead?** To an increase in confidence, to paid employment and it develops the skills necessary for life beyond school.

**For Further Information See:**  
Ms A Scully.

## ENGLISH ACHIEVEMENT STANDARDS – ENG201

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$18.00 Class materials and write-on course book.

**Entry Requirements:** In general students from ENG101 can qualify. Students will be directed into this course based on their results in Year 11. As a guideline students will require 16 credits in NCEA Level 1 English Achievement Standards, including the achievement of **two** of the following standards to Merit or Excellence level:

- AS90052 Produce creative writing.
- AS90054 Read, study and understand an extended written text.
- AS90055 Read, study and understand short written texts.
- AS90056 View/listen to, study and understand a visual or oral text.
- AS90057 Read and understand unfamiliar texts.

\* Students from the Year 11 six-subject class will have received separate entry requirements for this course.

**Course Outline:** Writing skills, both creative and formal varieties; literature studies (which may include novel, film, short stories, poetry or Shakespeare); close reading skills; speaking and presentation skills.

**Where Does It Lead?** Year 13/Scholarship English (ENG301) if entry requirements are met. Can be applied to most areas of employment.

**For Further Information See:**  
Ms L McNeill.

## ENGLISH INTERMEDIATE ENG202

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$5.00 for class materials.

**Entry Requirements:** In general students from ENG101 or 102 will be directed into this course based on their results in Year 11. As a guideline students will require at least 13 credits in NCEA Level 1 English Achievement Standards.

**Course Outline:** This course consists of a combination of Level 2 Achievement and Unit Standards. Emphasis is given to those reading and writing standards that count towards the literacy requirements for entry into tertiary study.

**Where Does It Lead?** Year 13 English (ENG301 or 302) if entry requirements are met.

**For Further Information See:**  
Ms L McNeill.

## ENGLISH LITERACY ENG203

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$5.00 Class materials.

**Entry Requirements:** In general students from ENG102 or 103 will be directed into this course based on their results in Year 11.

**Course Outline:** This course follows on from English 103 and is also for students who do not have the required credits to study the Level 2 English Intermediate (ENG202) programme. This course will comprise a selection of Level 2 Unit Standards. The course offers an opportunity to gain reading and writing literacy requirements for entry into tertiary study.

**Where Does It Lead?** Students can continue onto English 302 or 303 if entry requirements are met.

**For Further Information See:**  
Ms L McNeill.

## ENGLISH FOR SPEAKERS OF OTHER LANGUAGES – ESL202 (Upper Intermediate Level)

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$50.00 – Grammar textbook.

**Entry Requirements:** This course is designed for students with an Upper Intermediate level of English. Most will have completed Level 1 English Unit and Achievement Standards during the previous year.

**Course Outline:** This course aims to help students achieve the eight credits in Level 2 reading and writing needed for University Entrance. Students also complete Achievement Standards and Unit Standards in speaking to an audience, wide reading, response to film, and complete grammar and vocabulary studies.

Level 2 English Unit and Achievement Standards.

**Where Does It Lead?** To mainstream Year 13 English.

**For Further Information See:**  
Mrs P Lancaster.

## FOOD & NUTRITION – FDN202

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$160.00 – this fee covers the cost of all pantry supplies used.

**Entry Requirements:** At least 12 credits in NCEA Level 1 Food & Nutrition or by negotiation with the HOD.

**Course Outline:** This course is designed for students to achieve:

- Skills for analysing eating patterns and nutrient intake.
- The ability to recommend change to enhance health/performance.
- An appreciation of societal influences on eating patterns of individuals.
- An understanding of the concept of Hauora.
- Strategies to achieve health and well-being for self and others.
- Confidence and skill when working with food.
- Creative expression through food preparation.
- Safe and hygienic food handling practices.

**Where Does It Lead?** Year 13 Hospitality. Gives a good foundation for Polytechnic Hospitality and catering courses, to the Degree of Consumer & Applied Science and other careers in the Hospitality & Food Industry.

**For Further Information See:**  
Mrs A Walker.

## FRENCH – FRE201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Course fee \$3.00. NCEA Workbook \$18.00, Magazine subscription \$18.00.

**Entry Requirements:** At least three Achievement Standards (one must be external) in NCEA Level 1 French or by negotiation with the HOD.

**Course Outline:** Topics will be chosen according to student interest. The course aims to increase students' confidence in speaking French in everyday situations. Students have access to a variety of departmental resources – French Films, audio CDs computer programmes, French readers and French magazines.

Students will learn about other French speaking countries throughout the world, increasing appreciation of different cultures. They will focus on giving and responding to advice and opinions relating to topical discussions. They will be encouraged to read a wide variety of literary media. A French film study will also be part of the course. Work is based on Level 7 of the French Curriculum.

The four skills of reading, writing, listening and speaking will receive equal weighting in tests and examinations.

**Where Does It Lead?** Year 13 French, further study at Polytechnic or University; knowledge of a foreign language is essential for some overseas grants and scholarships; increased appreciation of foreign travel; employment in the tourism industry. French language students have an advantage in careers demanding accuracy eg. computer work, and in their ability to think clearly and write precisely.

**For Further Information See:**  
Mrs F Bamford.

## GEOGRAPHY – GEO201 The Environment & People (Geography for a Sustainable Future)

**Qualification:** NCEA Level 2.

**Approximate Cost:** Field trips \$130.00.

**Entry Requirements:** Achievement in Geography: Four Level 1 Geography standards, including 90205 **or** Achievement in other Social Science Subjects: History AS90211 or 90209; Social Studies 90271 **or** 90218 **or** acceptance into ENG202 or ENG201 **or** by negotiation with the HOD.

**Course Outline:** The course aims to develop student's awareness and ability to take action within the world they live. We anticipate a field trip to Mt Cook. This is highly recommended but not compulsory.

*Natural Processes in the Environment:* How have the natural landscapes of the South Island High Country and the Amazon Rainforest been modified by people? What impact does this have on the people who live there and in the wider world?

*How Human activity affects the environment in terms of a sustainable future:* Focusing on Waihora/Lake Ellesmere as a case study.

*Investigating Urban Environments:* How do cities grow and interact? What issues do big cities in the world have? How does this compare with our own cities in New Zealand?

**Where does it lead?** As a course which combines both the Earth and Social Sciences, this course leads on to further study in these areas at Year 13 (CLS301, GEO301, HIS301 and SOS301) and then on to further tertiary study.

The world is becoming more environmentally aware and with legislation such as the Resource Management Act (RMA), job opportunities and tertiary courses relating to Environmental

Management, Mitigation, Monitoring and Planning are both necessary and increasing.

Other subjects which may help students learning in this course are other Sciences like Biology.

**For Further Information See:**  
Mr C Perry.

## GRAPHICS – GRA201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Materials fee \$10.00.

**Entry Requirements:** At least 12 credits in NCEA Level 1 Graphics or HOD recommendation.

**Course Outline:** The course aims to present a challenging and creative environment for students interested in design, graphic communication and technical drawing.

The course structure and assessment builds on the skills learnt in Graphics at Level 1 but with increased skills in drawing systems, presentation technique, model making and use of computer graphics software. Design briefs are more open-ended, with students having more of an input into in-depth design problems, and build stronger understanding of design elements and principles. The areas of study include:

- Graphic communication and design, the skills of presenting and designing solutions.
- Architectural and environmental design, eg interior design, playground design, house design.
- Technological design eg the development of products.
- Media design eg posters, packaging and labelling.

**Where Does It Lead?** Year 13 Graphics and Scholarship; Polytechnic courses in; design, graphics, architectural draughting, CAD design, product design, media graphics, mechanical drawing, quantity surveying; University studies in; Design, Graphics, Architecture, Engineering, Technology.

**For Further Information See:**  
Mr E Wright.

## HISTORY – HIS201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Field trip overnight to Akaroa \$55.00.

**Entry requirements:** Entry into English 202 or 201.

**Course Outline:** Students will study three topics from:

- The Origins of World War I.
- Vietnam and the Conflict in Indo China.
- The American Revolution and the Making of the Republic.
- Revolution in Russia.

Students will also complete pupil-centred research, which may include:

1. The Changing Nature of Akaroa and Surrounds.
2. The Boston Tea Party.

The focus of Level 2 History is intended for students who have an interest in Conflict Management, Political Science and Sociology. The other subjects which provide learning which helps History students deepen their understanding of the processes and topics studied in History include Social Studies and Geography.

**Where Does It Lead?** Year 13/Scholarship History, University and College of Education. Students considering a career in any field which requires report writing, unbiased opinion, analytical and logical thought will find this subject beneficial. Careers include: - Law, Journalism, Teaching, Tourism, Public Relations, Libraries and Government Departments.

**For Further Information See:**  
Mr S Gilpin.

## HORTICULTURAL SCIENCE HSC202

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$20.00 (including student workbook).

**Entry Requirements:** A minimum of 14 credits in either NCEA Level 1 Horticultural Science, Science or at the discretion of the teacher in charge. (ATV credits not included.)

**Course Outline:** This course will be a combination of Achievement Standards and Unit Standards.

Topics covered will be:

- Plant propagation: 7084 (4 credits) 90453 (4 credits).
- Landscape design: 90456 (4 credits).
- Environmental resources: 90451 (4 credits)
- Plant husbandry: 7086 (2 credits).
- Plant productivity: 90454 (4 credits).
- Tractor safety: this is a practical and theoretical course which is carried out and assessed by the National Trade Academy. Students can obtain Unit Standards.

Students will be expected to participate in one week of work experience in an Agricultural or Horticultural field which interests them.

**Where Does It Lead?** Year 13 Horticultural Science; Lincoln or Massey University; Polytechnic courses and employment in agricultural and horticultural industries.

**For Further Information See:**

Miss K Legg.

## HOSPITALITY – HOS203

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$180.00 – this fee covers the cost of all pantry supplies used and \$95.00 for assessment workbooks.

**Entry Requirements:** Preference will be given to those who have at least 12 credits in a NCEA Level 1 Food related course or HOD recommendation. Course maximum 24.

**Course Outline:** This course introduces students to the needs and demands of working in the Hospitality Industry. It covers a range of topics that will provide the basis for chef skills and working in a commercial kitchen. Topics include:

- Food hygiene and safety.
- Food preparation and presentation.
- Cooking methods used in a commercial kitchen.
- Knife handling skills.
- Food and Beverage skills.

**Where Does It Lead?** Year 13 Hospitality. Gives a good foundation for Polytechnic Hospitality and catering courses, to the Degree of Consumer & Applied Science and other careers in the Hospitality & Food Industry.

**For Further Information See:**

Mrs A Walker.

## JAPANESE – JPE201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Vocabulary Booklet \$15.00, Kanji Booklet \$5.00.

**Entry Requirements:** At least three of the six Achievement Standards in NCEA Level 1 Japanese (one must be external) or by negotiation with HOD.

**Course Outline:** Level 7 of the National Japanese Curriculum will be covered through the study of four topics.

- Term One – Family Life.
- Term Two – Eating and drinking.
- Term Three – The Japanese school system.
- Term Four – Leisure activities.

**Where Does It Lead:** Year 13/Scholarship Japanese. Students who leave school could continue to study part-time or full-time at the Polytechnic or study part-time at University. Knowledge of Japanese can help lead to work in tourist-related employment or in employment in firms which deal with Japan.

**For Further Information See:**

Mrs R Austen.

## JOURNALISM – JOU202

**Qualification:** NCEA Level 2.

**Approximate Cost:** \$20.00 – Field trip, ID card and resources.

**Entry Requirements:** Achieved Level 1 NCEA English AS90052 **and** either AS90053 or US8812. Or by negotiation with TIC Journalism.

**Course Outline:** An understanding of a range of writing skills associated with Journalism, eg differences in the structure and content of news and feature articles; arranging and participating in the collection, design and lay-out of news stories and photographic material; arranging and conducting interviews; learning time management skills; production experience through contributing to school newspaper publication and local newspapers.

A knowledge of the world of Journalism, and the roles of people working in this field; technical knowledge. On completion of the course, an overall objective is that students should be technically competent, self-assured and independent journalists with an increased level of social and cultural awareness.

**Where Does It Lead?** Polytechnic courses with degree status and one year post-graduate University courses.

**For Further Information See:**

Miss K Morris.

## MĀORI – MAO201

Te Reo Māori

**Qualification:** NCEA Level 2.

**Approximate Cost:** Field trips or a Marae visit \$40.00 (subject to availability).

**Entry Requirements:** 12 credits in NCEA Level 1 Māori.

**Course Outline:** Tēnā koutou e ngā rau rangatira o ngā hau e whā. During this course students will continue to build on their confidence and abilities as a student of the Māori language. The course will

focus on developing the student's skills in listening, speaking, reading and writing in te reo Māori. Topics covered will include:

- Tōku Kura
- Tōku Tūrangawaewae
- Te Hauora me te Tinana
- Te Noho i te Tāone
- Te Reo o ngā Tipuna
- Ngā Manu Kōrero

**Where Does It Lead:** Year 13 Māori language course. Career opportunities for students who have studied Māori can include – education, government departments, television & radio broadcasting, tourism, as well as, any job that may require bilingual skills or bicultural understanding.

**For Further Information See:**  
Mr M Jennings.

## MATERIALS TECHNOLOGY (METAL BASED) – MTM203

**Qualification:** NCEA Level 2.

**Approximate Cost:** Materials fees \$15 0.00. Any extra materials used will be charged accordingly.

**Entry Requirements:** Students need at least 12 credits in NCEA Level 1 Materials Technology or by negotiation with the HOD. Class maximum: 24.

**Course Outline:** The course will give a wide and varied experience in prefabrication, fitting and turning, welding and brazing.

The use of other materials such as fibre-glassing, acrylic sheet, wood or enamels feature in the course.

Students will learn the design process and the ability to express ideas in the correct terms. They will develop skills in research and gain experience in problem solving. Good safe working attitudes will be developed along with the success of applying craftsmanship to their work.

A MIG welding block course will be available for a limited number of students.

**Where Does It Lead?** Year 13 Materials Technology (Combined), Polytechnic courses in Metal related trades and related employment opportunities in the Engineering Industry eg Fitter, Turner, Welder, Engineer, Blacksmith, Sheet metal, Fabricator, Plastic engineering, etc

**For Further Information See:**  
Mr E Wright.

## MATERIALS TECHNOLOGY (WOOD BASED) – MTW203

**Qualification:** Level 2 Wood trades ITO Unit Standards towards.

**Approximate Cost:** Materials fee \$150.00. Any extra materials will be charged accordingly.

**Entry Requirements:** At least 12 NCEA Level 1 credits in Materials Technology (Metal or Wood) or by negotiation with the HOD. Class maximum is 24 students.

**Course Outline:** This is a skills and theory based course to introduce students to a variety of options in the different wood trade industries. Students will be expected to focus on high quality hand skills in the achievement of set projects working and interpreting designs from drawing. Students will study the theory behind the tools, materials and processes.

**Where Does It Lead?** Polytechnic courses in Building related trades and related employment opportunities in building eg Joinery, Furniture making, Carpentry, Cabinet Maker, Boatbuilding etc.

**For Further Information See:**  
Mr E Wright.

## MATHEMATICS ACHIEVEMENT STANDARDS- MAT201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Graphics Calculator \$80.00.

**Entry Requirements:** In general students from MAT101 can qualify for MAT201. Although in exceptional circumstances students from MAT102 may qualify. Students must have a minimum of 16 credits from the MAT101 course. Places in this course will be limited and preference will be given to those with a Merit grade in the Algebra standard. Other students may be admitted at the HOD's discretion.

**Course Outline:** A major emphasis of the course is on the development and application of Algebra, Graph skills, and Statistics. Calculus is also introduced at this level.

**Where Does It Lead?** Year 13/Scholarship Mathematics with Calculus course and/or Level 3/ Scholarship Statistics and Modelling course if entry requirements are met.

Many career entry requirements specify or recommend Level 2 NCEA Mathematics – refer to individual job requirements for details.

**For Further Information See:**  
Mr M Howard.

## MATHEMATICS INTERMEDIATE MAT202

**Qualification:** NCEA Level 2.

**Approximate Cost:** None

**Entry Requirements:** In general students from MAT101 or 102 can qualify.

**Course Outline:** While covering similar content to mathematics achievement standards, some of the assessment in this course will be done through internal unit standards instead of external achievement standards. This is designed to reduce the pressure on students during the external examination at the end of the year. There will also be a greater emphasis on Statistics instead of studying Trigonometric Equations.

**Where does it lead?** Year 13/Scholarship Statistics and Modelling course if entry requirements are met. Many career entry requirements specify or recommend Level 2 NCEA Mathematics – refer to individual job requirements for details.

**For further information see:**  
Mr M Howard.

## MATHEMATICS UNIT STANDARDS – MAT203

**Qualification:** NCEA Level 2.

**Approximate Cost:** None.

**Entry Requirements:** In general students from MAT102 or 103 can qualify.

**Course Outline:** This course will contain Level 2 NCEA unit standards and achievement standards. It will provide the opportunity for students to gain the 14 Numeracy credits needed for University Entrance if they have not already done so, as well as providing students with an understanding of mathematical concepts needed in various job scenarios.

**Where Does It Lead?** Students who achieve most of the credits available in MAT203 may seek permission from the HOD Mathematics to do MAT202 the following year.

**For Further Information See:**  
Mr M Howard.

## MUSIC – MUS201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Visiting performing groups \$20.00.

**Entry Requirements:** HOD recommendation. All students intending to take this course will be interviewed by the HOD.

- Competent ability on an instrument.
- Ability to read music.
- Achievement in standards 90012, 90013, 90014, 90015, 90016 and 90017 in NCEA Level 1 Music.

**Course Outline:** The aim of the course is to involve students in the active creative process of making and listening to music, in ways that promote individual aesthetic growth and fulfilment. The course comprises *five* aspects:

1. Performance: both individual performance and group performance (AS902640, AS902650).
2. Compositions: this involves writing for a solo instrument, writing for three independent parts and word setting (AS902660).
3. Aural Skills: developing skills in melodic, rhythmic and harmonic recall/playback as well as sight reading notated music (US11818).
4. Musical Knowledge: research and analysis of a major work by a composer, or a series of smaller pieces (AS902700).

**Where Does It Lead?** Year 13 Music.

**For Further Information See:**  
Ms B McKay.

## OUTDOOR RECREATION ODR203

**Qualification:** NCEA Level 2.

**Approximate Cost:** Course fee \$500.00, paid in three instalments. The cost of suitable personal clothing must be met by the students.

**Entry Requirements:** Open. A genuine interest and prior experience in outdoor pursuits is an advantage. Due to the risks involved in the course a high standard of personal responsibility is required. Students will also require suitable outdoor clothing to ensure their safety when participating in activities. A gear list is provided prior to the course.

There is a limited number of places in this course. If too many students want to take the course there will be a selection process. Students will be informed of the process in Term 4.

**Course Outline:** The school is accredited to offer many NZQA Unit Standards in Outdoor Recreation up to Level 2. We offer units in kayaking, snow skills, mountain biking, orienteering, rock climbing and tramping. Students complete a first aid course.

Students will attend trips and overnight camps that result in absences from other subjects. Attending these trips and overnight camps are a required part of assessment to gain credits during this course. Students are expected to catch up on all missed work.

**Where Does It Lead?** The course can be valuable in occupations where self-confidence, commitment and good communication skills are needed and can lead into the adventure tourism industry and to tertiary courses in outdoor pursuits.

Students who successfully complete all units gain the SFRITO National Award in Outdoor Experience (Level 2), and also gain automatic entry into the Year 13 Outdoor Recreation programme.

**For Further Information See:**  
Mr D Rooney.

## PHYSICAL EDUCATION PED201

**Qualification:** NCEA Level 2 (21 credits).

**Approximate Cost:** Workbook \$22.00, field trip \$150.00 and course book \$5.00.

**Entry Requirements:** 16 credits in Physical Education Level 1 (PED101) or acceptance into ENG202, ENG201 or SCI201 or by HOD approval. Students may not enter Physical Education & Recreation (PED203).

**Course Outline:**

- 90432 Examine relationships between regular exercise and concepts of fitness and health.
- 90433 From observation, examine how principles of anatomy and biomechanics relate to physical activity.
- 90434 Describe principles and methods of training and apply these to participation in physical activity.
- 90435 Describe and apply principles of skill learning and sports psychology to physical activity.
- 90436 Perform a physical activity to meet the Physical Education Performance Standards for Level 2.
- 90437 Investigate the sociological significance of a sporting event, physical activity or festival.
- 90439 Demonstrate knowledge of safety issues and apply safety management procedures in a physical activity.

This course is designed for highly committed students who aspire to careers within the Physical Education and Recreation Industry.

**Where Does It Lead?** Level 3 Physical Education, or Level 3 Sports Coaching and Leadership.

**For Further Information See:**  
Mr P Nicholson, Ms A Grant.

## PHYSICAL EDUCATION & RECREATION – PED203

**Qualification:** NCEA Level 2.

**Approximate Cost:** Field trips up to \$80.00, workbook \$5.00.

**Entry Requirements:** Eight Level 1 Physical Education credits (PED101, PED102 or PED103) or by HOD approval. Students taking this course may not enter Physical Education Level 2 (PED201).

**Course Outline:** This course caters for those students interested in developing skills in the Sports and Recreation industry. It will introduce the many aspects of coaching and officiating as well as improving the students' personal skill levels, knowledge and fitness. The following Unit Standards may possibly be covered (20 credits):

- 13351 Participate in different adventure based learning activities.
- 12545 Apply knowledge of functional anatomy to physical activity.
- 12546 Apply knowledge of injury management in physical activity.
- 12531 Demonstrate knowledge and skills in a team sport.
- 12533 Demonstrate knowledge and skills in an individual sport.
- 12538 Demonstrate leadership in a physical activity.

This course is suited to students who have an interest in a career within the Physical Education and Recreation Industry.

**Where Does It Lead?** To increased confidence and knowledge to participate in sport or recreation as player and/or official. Students may qualify for entry into NCEA Level 2 courses (with HOD approval) and Year 13 Sports Coaching and Leadership.

**For Further Information See:**  
Mr S Scarcliff.

## PHYSICS – PHY201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Course manual \$25.00. Revision guides \$25.00. Fieldtrip \$10.00.

**Entry Requirements:** In general students from SCI101 and either MAT101 or 102 can qualify. Automatic entry to this course requires at least a merit in AS90191 (physics) and achievement in AS90189 (chemistry), AS90186 (practical) and achievement in the Maths algebra or number paper. Students not meeting one of these criteria need to seek approval from the HOD.

**Course Outline:**

- Take measurements of physical quantities and analyse data graphically to determine a relationship (AS90252).
- Demonstrate understanding of waves (AS90254).
- Demonstrate understanding of mechanics (AS90255).
- Demonstrate understanding of atoms and radioactivity (AS90256).
- Demonstrate understanding of electricity and electromagnetism (AS90257).
- Demonstrate understanding of physics in an integrated context (AS90258).

There is one internal Achievement Standard during the year, with four external assessments at the end of the year.

**Where Does It Lead?** Year 13/Scholarship Physics and University study. The content is a valuable "lead in" to many tertiary courses eg Nursing, Engineering, Physiotherapy, Radiography. It can reduce apprenticeship periods significantly and provides exemptions for many Polytechnic Trade and New Zealand Certificate courses.

**For Further Information See:**  
Miss G Barrett.

## SCIENCE ACHIEVEMENT STANDARDS – SCI201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Field trips \$30.00.

**Entry Requirements:** Automatic entry to this course requires at least achievement in AS90189 (chemistry), AS90191 (physics), AS 90186 (practical) and in one of the algebra and the number Mathematics papers.

OR 16 Unit Standard credits, achieved in an external science paper and achievement in one of the Mathematics algebra and number papers. Students not meeting one of these criteria need to seek approval from the HOD.

**Course Outline:**

- Carry out a practical scientific investigation with supervision (AS90312).
- Describe the nature and life cycle of stars (AS90764).
- Describe New Zealand's geological history (AS90767).
- Use Physics concepts and principles to describe behaviour of light (AS90768).
- Research information to present a scientific report (AS90771).
- Describe factors and processes involved in evolution of NZ plants and animals (AS90772).
- A Unit Standard of 3 credits will also be offered.

There are two internal Achievement Standards and one Unit Standard during the year, with four external assessments at the end of the year.

**Where Does It Lead?** Year 13 Science (SCI301) and Biology (at the discretion of the HOD), any occupation where a basic knowledge of Science is required and may assist with entry to courses at tertiary level.

**For Further Information See:**  
Mr R Kent, Mrs B Hooper.

## SCIENCE UNIT STANDARDS SCI203

**Qualification:** NCEA Level 2.

**Approximate Cost:** Field trips \$30.00.

**Entry Requirements:** In general students from SCI101, 102 or 103 can qualify. Automatic entry to this course requires at least achievement in two of the six Achievement Standards. OR 12 Unit Standard credits. Students not meeting one of these criteria need to seek approval from the HOD. **Students choosing this option will be unable to participate in other Year 12 Science courses.**

**Course Outline:**

- Carry out a practical scientific investigation with supervision (AS90312).
- Six Unit Standards totalling 18 credits will also be offered.

There is one internal Achievement Standard and six Unit Standards during the year. There are no external exams at the end of the year.

**Where Does It Lead?** Science 201 only.

**For Further Information See:**  
Mr R Kent.

## SOCIAL STUDIES –SOS201

**Qualification:** NCEA Level 2.

**Approximate Cost:** Field trips \$30.00.

**Entry Requirements:** Entry into 202 or 201 English.

**Course Outline:**

- *Justice on Pitcairn:* Pitcairn Island sex scandal. “How can people view sex crimes so differently?”
- *Death in Rwanda:* How colonisation lead to the genocide of 1994. What role did the International Community have in the lead up to, and during, the genocide?
- *Music in Society:* Music that creates an identity. Rock n Roll and Hip Hop, what on earth do these have in common?
- *Stand Up and Shout:* How and why groups protest to influence society and how effective are they?

Social Studies is intended for students with an interest in Psychology, Sociology, Anthropology and Political Science. Other subjects offered at Lincoln High School, which help to add to the understanding of Social Studies knowledge and processes include History and Geography. Direct investigation and contact with people and organisations is important in this subject. Field trips are an integral part of our learning. It is possible that one of these field trips per year level will involve overnight stays and travel out of the Canterbury region. Notice of these trips will be given at least one term in advance. Alternative arrangements will be made for those students who are unable to join in on a field trip such that they will not miss out on any associated assessment opportunities.

**Where does it Lead?** Year 13 Social Studies, History, Geography or Classics. Courses and careers in areas that deal with the needs of people and society such as careers in Health Sciences,

Education, Social Services, Armed Services and Government Agencies.

**For Further Information See:**  
Ms K Wilson.

## TEXTILE TECHNOLOGY TTY202

**Qualification:** NCEA Level 2.

This course will run subject to sufficient numbers of students enrolling.

**Approximate Cost:** Fee \$45.00. This fee covers the cost of some printing and stationery materials and sewing notions. Fabrics and patterns for garments need to be purchased separately.

**Entry Requirements:** At least 12 credits in NCEA Level 1 or by negotiation with the HOD.

**Course Outline:** This course provides opportunities to:

- Develop/design skills in fashion. Illustration and marketing trends.
- Develop confidence, skills and creativity with fabrics and other materials
- Learn more advanced construction techniques and design applications.
- Learn technology terms and processes which can be applied in the general design world.

**Where Does It Lead?** A confidence in sewing and designing, clothing and design courses at Polytechnic, University, Fashion Schools and Graphic design/marketing.

Also opportunities to enter local or national competitions in garment design or constructions to further build their port folios.

**For Further Information See:**  
Mrs A Walker.

## TOURISM – TOUT203

**Qualification:** NCEA Level 2 and can lead to the completion of the National Certificate in Tourism (Introductory Skills).

**Approximate Cost:** Workbooks \$80.00.

**Entry Requirement:** Open entry.

**Course Outline:** This course provides an introduction to the importance of Tourism to the economy. Students learn about what Tourism is and why it is such an important business. Students develop practical work related skills and learn about tourist destinations here in New Zealand and overseas. They also learn about the positive and negative impacts Tourism has on the environment, society and culture.

**Where Does It Lead?** Further study at Year 13 and it will also provide a foundation on which to develop the skills and knowledge required by the Tourism industry.

**For Further Information See:**  
Mr Senior, Mr Perry, Ms Winchester.