

Edgecumbe College



Level 3 Course Booklet 2012

PLANNING YOUR FUTURE

The purpose of this booklet is to assist you to make informed choices in 2012, so that you achieve success in your chosen subjects and courses. It is important that you choose your subjects carefully and not just select because your friends are doing the course.

The course selection that you undertake in Term three will be used by the school to work out what subjects will be offered in 2012. An unwise decision now may result in the course you really wanted to do not being offered next year.

For those taking External Exams the final decision on which subjects you do next year may have to be made after you get your results in January 2012 and satisfy course pre requisites.

Year 11	Students will study for the National Certificate of Educational Achievement Level 1 by gaining credits from Achievement Standards and/or Unit Standards. It is compulsory that students study courses in English and Mathematics this year. A course in a Science is strongly recommended. All other subjects are optional.
Year 12	Students will study for the National Certificate of Educational Achievement Level 1 and/or 2, and/or National Certificates. They should know which of their subjects continue into Year 13 courses. Students must study a course in English or Maori. All other subjects are optional.
Year 13	Students will study for the National Certificate of Educational Achievement Level 1, 2 and/or 3, and National Certificates. They need to consider career, polytechnic or university requirements when they choose their subjects There are no compulsory subjects

Choice of Subjects

A parent/guardian/caregiver must consent to the choice of subjects by signing the selection forms. Any changes during the year must be through the students Kaitiaki and have the permission of the parents and teachers concerned.

For New Students

Enrolment Interview

A parent/guardian/caregiver must be present at the interview when a course is being discussed and selected.

Placement in English and Mathematics Courses

A student will be placed in a class based on the combination of advice from the previous school, diagnostic or summative tests and an interview with a teacher.

NATIONAL QUALIFICATIONS AND CERTIFICATES

National Certificate of Educational Achievement (NCEA)

NCEA Level 1 - requires students to gain 80 or more credits

- A full year's subject course generally offers about 20 credits.
- Students may study up to 6 full year courses.
- Achievement Standards and Unit Standards credits may be included in the NCEA Level 1 Certificate.
- Achievement Standards are awarded at Achieved, Merit and Excellence levels. Unit Standards are awarded at Credit (Achieved) only.
- Some Achievement Standards are assessed internally (in the school) and some are assessed at the end of the year in an external exam.
- Unit Standards are all assessed internally.
- As part of the Level 1 requirements you must gain enough Literacy and Numeracy credits. This can be done in one of two ways you must gain enough Literacy and Numeracy credits. This can be done in one of two ways.

Unit standards – Three unit standards worth a total of 10 credits need to be completed, for both Literacy and Numeracy. Evidence can be collected from any subject and is used to create a portfolio's which demonstrates competency in the required Literacy and Numeracy skills.

Achievement standards – Achievement standards in a variety of subjects are signposted as counting towards Literacy or Numeracy competency. More details of the list can be found on the student I drive in the NCEA file.

A student needs to gain 10 or more credits in Standards that count towards Literacy and 10 or more credits that count towards Numeracy in order to gain the competency standard required for NCEA Level 1

NCEA Level 2 – requires students to gain 80 credits

- You need a minimum of 80 credits of which 60 credits must be at Level 2 or above
- Credits may be achieved from either Achievement Standards or Unit Standards.

NCEA Level 3 - requires students to gain 80 credits

- You need a minimum of 80 credits of which 60 must be at Level 3 or above.
- If considering applying for University the following year it is **strongly advised** that you study five Level 3 subjects in Year 13. **Students who take four or more Level 3 subjects are entitled to choose a study line.**
- **Level 3 is becoming the bench mark for entry into many University courses (see the section on University entrance which is later on in this booklet).**

Unit Standards (U.S)

- Some of the Level 1, 2 and 3 courses offer only Unit Standards. These courses are identified on the subject index with U.S. They provide credits for NCEA.

Some Level 1, 2 and 3 courses offer National Certificates.

Certificates offered at Edgumbe College are: (teacher responsible)

- National Certificate in Computing Levels 2 & 3 (See Mr. Hall)
- National Certificate of Business and Computing Levels 2 & 3 (See Mr. Hall)
- National Certificate in Tourism Level 2 (See Mr. Lynch)
- National Certificate in Mechanical Engineering Technology Level 1 and 2 (see Mr. van Veen)
- National Certificate in Building Construction and Allied Trades Level 2 (see Mr. van Veen)
- NZ Certificate in Agriculture Level 2 (see Mr. Baldwin)
- National Award in Outdoor Experiences Level 2 (See Ms. Barnes)

The correct units must be studied to satisfy NZQA requirements for a National Certificate

Endorsement of Certificates

The National Certificate of Educational Achievement (NCEA) may be endorsed with the words "Merit" or "Excellent" for any level. To gain a Merit endorsement students' need to gain 50 or more credits at a Merit level. To gain an Excellence endorsement students' need to gain 50 or more credits at the Excellence level. Credits gained in a higher level can count down to enable you to gain a lower level endorsement.

Note that Unit Standards will not give you credits towards Merit or Excellence endorsement.

Subject (Course) Endorsement

Students will gain an endorsement for a course where they achieve:

- 14 or more credits at Merit or Excellence.
- At least 3 credits need to be from externally assessed standards and 3 from internally assessed standards (see note below).
- Credits can only be counted once in a single school year .i.e. credits gained as a Year 10 student cannot be counted for subject endorsement in Year 11.

Note:

Physical Education, Religious Studies and Level 3 Visual Arts will be exempt from the requirement to gain external assessed credits.

Scholarship

Scholarship provides recognition and monetary reward to top secondary school students. Scholarship exams enable candidates to be assessed against challenging standards, and are demanding for the most able candidates in each subject. They are externally assessed and are an additional set of exams. They do not attract credits, nor contribute towards a qualification, but the fact that a student has gained a Scholarship appears on their Record of Achievement. Students can enter up to 3 Scholarship exams without any extra charge to the normal NZQA fees.

ENTRANCE TO UNIVERSITY

Minimum standards

- Gaining 14 credits at level 3 in **three** approved subject areas (see below)
- Or 14 credits at Level 3 in **two** subjects and 14 credits in no more than two approved subjects or domains.

Plus

- a minimum of 14 numeracy credits at Level 1 or higher in Mathematics
- a minimum of 8 literacy credits at Level 2 or higher in English or Te Reo Māori; 4 credits must be in Reading and 4 credits must be in Writing. The literacy credits need to be from a schedule of approved Achievement Standards and Unit Standards (**for more detail see your Kaihiaki or English/Maori teacher**).

More detailed information on University Entrance and list of approved subjects can be found at <http://www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/>

Approved Subjects

Accounting	Geography	Painting (Practical Art)
Agriculture & Horticulture	German	Photography (Practical Art)
Biology	Graphics	Physical Education
Chemistry	Health Education	Physics
Chinese	History	Printmaking (Practical Art)
Classical Studies	History of Art	Samoan
Computing	Indonesian	Science
Cook Islands Māori	Japanese	Sculpture (Practical Art)
Dance	Korean	Social Studies
Design (Practical Art)	Latin	Spanish
Drama	Mathematics with Calculus	Technology
Economics	Statistics and Modelling	Te Reo Māori or Te Reo Rangatira
English	Media Studies	
French	Music Studies	

Credits can be accumulated over more than one year. Where a Unit Standard and an Achievement Standard assess the same learning outcome they are mutually exclusive for the NCEA qualifications and university entrance purposes. You can check these out by visiting the web site http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/#_msocom_6 or see your subject teacher or Mr. Murphy (the NZQA liaison officer).

Course Overview at Edgecumbe College

Area	Year 9	Year 10	Level 1	Level 2	Level 3
The Arts	Art Practical	Art Practical	Visual Arts	Visual Arts (Painting, Photography)	Visual Arts (Painting, Photography Print, Sculpture)
	Maori Performing Arts Music	Maori Performing Arts Music Drama	Maori Performing Arts Music Studies Drama	Maori Performing Arts Music Studies Drama	Maori Performing Arts Music Studies Drama
Languages	English	English	English General E. Communication E. Elementary Media Studies Other Languages Te Reo Maori	English .General E. Communication E. Elementary Media Studies Other languages Te Reo Maori	English
	Japanese Te Reo Maori	Japanese Te Reo Maori			Other languages Te Reo Maori
Health and Physical Education	Physical Education	Physical Education	Physical Education Outdoor Physical Education	Physical Education Outdoor Physical Education Recreational Physical Edu.	Physical Education
	Health	Health	Health		
Mathematics	Mathematics	Mathematics	Mathematics	Mathematics	Maths with Calculus Statistics and Modelling
			Maths Applied		
Science	Science	Science	Science Science Applied	Biology Chemistry Physics Electronics Environmental Studies	Biology Chemistry Physics Electronics
	Horticulture	Horticulture	Human Biology Environmental Studies Agriculture Horticulture	Agriculture Horticulture	Agriculture Horticulture
Social Science	Social Science	Social Science	Social Science Geography History	Social Science Geography History Tourism	Social Science Geography History Tourism
Technology	Fabric Food and Nutrition	Fabric Food and Nutrition	Fabric Food and Nutrition Hospitality	Fabric Food and Nutrition Hospitality	Fabric Food and Nutrition
	Graphics Metal Wood	Graphics Metal Wood	Graphics Mechanical Engineering Wood	Graphics Mechanical Engineering Wood	Graphics Construction and Materials
Business Studies		Enterprise Studies	Accounting Economics Office Administration. Information and Communication Technology Digital Technologies	Accounting Economics Office Administration. Information and Communication Technology Digital Technologies	Accounting Economics Office Administration. Information and Communication Technology
	Information and Communication Technology	Information and Communication Technology			
Vocational		Career Education	Drivers Education	Driver Education Employment Skills Gateway Star Courses Trade Academy	Gateway Star Courses Trade Academy

Year 13 Course Selection

This is a copy of the form you will complete and hand to your tutor teacher. Do not write in the booklet

CHOICES YOU MUST MAKE:

You must choose six “Lines/blocks” of subjects plus one “backup”. State the level you will study at.

Year 13 students who have gained

- less than 20 credits need to do a complete Level 2 course
- between 20 – 40 credits can do one Level 3 (or two if they are at the higher end) subject if they have achieved the pre requisites. The rest of their timetable should be at Level 2
- between 40 - 60 Level 2 credits can do up to three Level 3 courses and three Level 2 courses – assuming they have the pre requisites
- If student have no achieved Level 1, the will need to read the Year 12 course selection notes

Year 13 students doing five Level 3 courses (**or 4 Level 3 approved subjects – see page 5**) can have a study. **If there are reasons not to follow these guidelines please see Mr. Murphy to make the final call.**

Your choices:

Please list your subjects in order of importance to you. **Complete all columns of the table.**

First Semester (Term 1 & 2)			Second Semester (Term 3 & 4)	
	Subject code	Level	Subject code	Level
1				
2				
3				
4				
5				
6				

Back up Subject

7				
Is there a subject you would like to do that is not in the course book?				

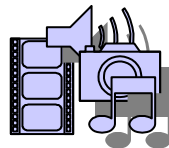
Remember

You cannot do both Gateway and Employment Skills

Unless subject teachers request or external results warrant no changes to course selection will occur in the first 6 weeks of term 1.

The Literacy component for University Entrance at Level 2 can be achieved in designated English or Te Reo Maori units. Your course selection will be checked by either your Tutor teacher or Kaitiaki.

PHOTOGRAPHY 3 (3PHT)



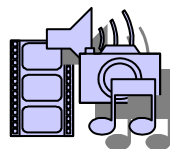
The Arts

Target Year Group	Year 13
Duration and Timing	One Timetable Block – Full Year Course
Description	This course will look at digital technologies as a creative means to produce work. Students explore artist models, ideas and media before combining their knowledge / skills to complete a folio of thematic study.
Assessment	A number of internal assessments are available. These play a supporting role to the folio which is externally assessed.
Pre-requisites	Completion of NCEA Level 2 Photography 2 PHT or HOD discretion. Note; it is ideal if students taking Photography have the use of their own 35mm SLR camera and / or a digital camera.
Leads on to	Any field, work or further education, where creative thinking is required using conceptual ideas and where practical skills learned can be used.
Fees	\$60

Achievement / Unit standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Research and analyse approaches with established photography practices.	AS	90660	3	I	4
Investigate and use ideas and methods in the context of a drawing study in photography.	AS	90664	3	I	6
Produce original work within photography to show extensive knowledge of art-making methods and ideas (Folio).	AS	90668	3	E	14
Total					24

VISUAL ARTS 3 (3ART)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

The Arts

Description Students may take Practical Art as a single or double subject, choosing one or two from Painting, Printmaking, Also available is Design and Sculpture but students would first need to negotiate with the HOD before choosing either of these. Students explore artist models, ideas and media before combining their knowledge / skills to complete a folio of thematic study.

Assessment A number of internal assessments are available. These play a supporting role to the folio which is externally assessed.

Pre-requisites Completion of NCEA Level 2 Practical Art (2ART) or HOD discretion.

Leads on to Any field, work or further education, where creative thinking is required using conceptual ideas and where practical skills learned can be used.

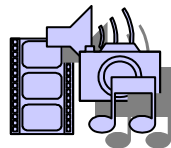
Fees \$50 cost for Painting and Print.

Achievement / Unit standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Research and analyse approaches with established painting / printmaking practices.	AS	Pnt. 90659 Prt. 90661	3	I	4
Investigate and use ideas and methods in the context of a drawing study in painting / printmaking	AS	Pnt. 90663 Prt. 90665	3	I	6
Produce original work within painting / printmaking to show extensive knowledge of art-making methods and ideas (Folio).	AS	Pnt. 90667 Prt. 90669	3	E	14
Total					24

Pnt = Painting, Prt = Print

DRAMA 3 (3DRA)



The Arts

Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Description This course develops students’ understanding of dramatic elements, conventions, skills and processes.

Assessment A range of internal assessment tasks will take place during the year. External Achievement Standards will be assessed in an end of year three hour exam

Pre-requisites HOD approval required. Preferable to have NCEA Level 2 Drama (2DRA).

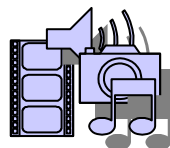
Leads on to Tertiary Study

Fees Nil

Achievement / Unit Standards Assessed

Title	AS/ US	Number	Level	Int or Ext	No of credits
Integrate drama techniques to communicate meaning in the performance of improvised drama	AS	90607	3	I	2
Integrate drama techniques to communicate meaning in individual performance of scripted drama	AS	90608	3	I	3
Use elements and conventions to devise, script and perform individual drama	AS	90609	3	I	5
Demonstrate knowledge of a drama/theatre form or period by analysing and interpreting text.	AS	90610	3	E	4
Research, prepare and perform a performance or technical/production role in a significant production	AS	90611	3	I	6
Analyse, apply and reflect critically on drama processes and performance in a new context.	AS	90612	3	E	4
Total					24

MAORI PERFORMING ARTS 3 (3MPA)



The Arts

Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Description Mostly performance based, following on from NCEA Levels 1 and 2 and includes: performance of whakaraka; performance of a Maori performing arts bracket; and demonstration of knowledge of the historical development of Maori Performing Arts.

Assessment Internal assessment and public performance.

Pre-requisites NCEA Level 2 Maori Performing Arts (2MPA)

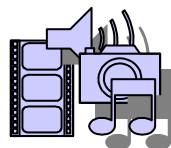
Leads on to Tertiary study

Fees Trips as required

Unit Standard Assessments

Title	AS/ US	Number	Level	Int or Ext	No of credits
Perform whakaraka	US	15020	3	I	6
Perform a Maori performing arts bracket	US	22756	3	I	10
Demonstrate knowledge of the historical development of Maori performing arts	US	22757	3	I	6
Total					22

MUSIC STUDIES 3 (3MUS)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course **The Arts**

Description Course follows two paths; Music Studies or Making Music. In conjunction with the HOD students will select an appropriate course of standards.

Assessment Internal assessment during the year.

Pre-requisites Those students who have successfully completed NCEA Level 2 Music (2MUS) or HOD approval.

Leads on to Tertiary Studies

Fees \$50 per year (\$12.50 per term) for those students receiving tuition from itinerant tutor.

Achievement Standards Assessed

	Title	AS/US	Number	Level	Int or Ext	No of credits
Music Studies	Arrange Music	AS	90527	3	I	4
	Examine the contexts that influence the expressive qualities of music	AS	90947	3	I	3
	Research and present a music topic	AS	90499	3	I	6
					Total	13
Music Making	Present a performance of a programme of music as a member of a group	AS	90526	3	I	4
	Prepare and present a programme of music as a featured soloist	AS	90776	3	I	8
	Present a portfolio of musical composition	AS	90775	3	I	8
					Total	20

ENGLISH 3 (3ENG)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Course

Languages

Description This course covers the three strands – Written, Visual and Oral Language – covering creative and formal writing, reading, exploring, thinking critically using a variety of written, oral and visual texts.

Assessment A range of internal assessment tasks will take place during the year. External Achievement Standards will be assessed in an end of year three hour exam.

Pre-requisites NCEA Level 2 English (2ENG) or HOD discretion.

Leads on to Tertiary study

Fees Nil

Achievement / Unit Standards Assessed

Title	AS/ US	Number	Level	Int or Ext	No of credits
Produce an extended piece of writing in a selected style	AS	90720	3	I	4
Respond critically to written text(s) studied	AS	90721	3	E	4
Respond critically to Shakespearean drama studied	AS	90722	3	E	4
Respond critically to oral or visual text studied	AS	90723	3	E	4
Respond critically to unfamiliar prose and poetry texts	AS	90724	3	E	2
Construct and deliver an oral presentation	AS	90725	3	I	3
Read and closely evaluate the effectiveness of static images	US	12432	3	I	3
Critical analysis of poetic text	US	12427	3	I	5
Critical analysis of transactional text	US	12428	3	I	5
Total					34

NB: Not all US / AS listed above will offered in any one class in any given year. Standards will be offered at the teacher's discretion, in consultation with the class.

TE REO MAORI 3 (3MAO)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Languages

Description Comprises of internal and external components covering the Skills of reading, writing, speaking and listening.

Assessment Two internal assessments will take place during the year. External Achievement Standards will be assessed in an end of year 3 hour exam.

Pre-requisites Those students who have successfully completed the NCEA Level 2 Maori 2MAO.

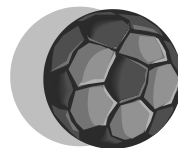
Leads on to A range of Tertiary options

Fees Nil

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Whakarongo i te reo o tona ao whanui	AS	90542	3	I	4
Korero i te reo o tona ao whanui	AS	90543	3	I	6
Panui kia whai maramatanga I te reo o tea o whanui	AS	90781	3	E	3
Whakaoti tuhinga tea o whanui	AS	90782	3	E	4
Hanga tuhinga auaha i te reo o te ao whanui	AS	90783	3	I	4
Panui kia wetewete i te reo o tea o whanui	AS	90784	3	E	3
Total					24

PHYSICAL EDUCATION 3 (3PED)



**Health and
Physical Education**

Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Description Students work toward NCEA Physical Education achievement standards at Level 8 of the New Zealand Curriculum. This is an exciting and challenging course in which students are expected to develop and apply a high level of self-management preparing them for tertiary study or relevant career choices. Exploring the concepts of hauora/wellbeing students apply biophysical principles to design, complete and critically evaluate the effectiveness of their personal plan to improve performance in a variety of physical activity settings; sport/physical activity/outdoor recreation. Students are also expected to develop social responsibility and leadership skills to promote and facilitate physical activity opportunities for others in the school and/or community.

Assessment A range of theory and practical internal assessment tasks will take place during the year.

Pre-requisites NCEA Level 2 Physical Education (2PED) or HOD approval

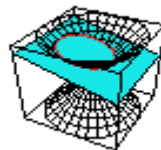
Leads on to Tertiary study in physical education, physiotherapy, sports administration, coaching and fitness industry qualifications.

Fees \$125 - \$150 per outdoor activity expedition if selected.

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Plan a physical activity programme or experience that relates to a personal definition of hauora	AS	90739	3	I	3
Review a physical activity programme or experience that relates to a personal definition of hauora.	AS	90740	3	I	2
Appraise performance and review a programme for performance improvement, for self or others	AS	90741	3	I	6
Demonstrate performance in a physical activity against nationally developed performance standards	AS	90742	3	I	5
Examine a current physical activity event or trend or issue, impacting on New Zealand society	AS	90743	3	I	3
Critically examine physical activity and take action to influence the participation of others	AS	90744	3	I	5
Total					24

MATHEMATICS WITH CALCULUS 3 (3MAC)

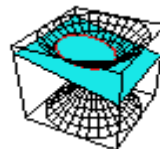


Target Year Group	Year 13	
Duration and Timing	One Timetable Block – Full Year Course	Mathematics
Description	This course covers general algebra and the applications of differentiation and integration involving algebraic and trigonometric functions. It also continues to explore 2-dimensional coordinate geometry especially in regard to the conic sections.	
Assessment	A range of internal assessment tasks will take place during the year. The standards offered will be based on Achievement Standards, but Unit Standards will be offered where appropriate. External Achievement Standards will be assessed in an end of year 3 hour exam.	
Pre-requisites	At least 14 credits from Level 2 Mathematics from AS 90284, 90285, 90286, 90287, 90292, 90291, 90292	
Leads on to	Tertiary study.	
Fees	Homework Book \$15.00.	

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Differentiate and use derivatives	AS	90635	1.	E	6
Integrate and solve problems	AS	90636	1	E	6
Trigonometric Functions	AS	90367	1	I	4
Algebra	AS	90638	1	E	5
Conic Geometry	AS	90639	1	E	3
Total					24
Related Unit Standards may be offered in this course depending in the needs of the students.					

STATISTICS & MODELLING 3 (3MAS)



Mathematics

Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Description This is a versatile course which can offer topics to suit the statistical components of other subjects. It can last a whole year or parts of a year depending on student requirements. Statistics supports Science, Economics and even Physical Education subjects.

Assessment The internal standards will be assessed in the first half of the year. External standards will be assessed at the end of the year by a three hour.

Pre-requisites 14 Level 2 credits including AS 90284, 90285, 90288, 90289 or at the HOD's discretion.

Leads on to Tertiary study.

Fees Nil

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Time series data	AS	90641	3	I	3
Confidence Intervals	AS	90642	3	E	3
Confidence Intervals for point estimates in small samples.	US	11123	4	I	3
Probability	AS	90643	3	E	4
Solve Equations	AS	90644	3	E	4
Stats Investigation – Bi-variate Data	AS	90645	3	I	3
Use Probability Distributions	AS	90646	3	E	4
Curve Fitting	AS	90647	3	I	3
					24
Some Unit Standards may be offered depending on the needs of the class.					

AGRICULTURAL SCIENCE 3 (3AGR)



Target Year Group Year 12

Duration and Timing One Timetable Block – Full Year Course

Description Students learn about a wide range of important elements of modern **Science** Agriculture such as, animal husbandry, feed budgeting, farm machinery and health and safety on the farm.

Assessment A range of internal Unit Standards may be undertaken during the year. These will be chosen by negotiation with students to suit their needs and interests.

Pre-requisites: Those students who have successfully completed the NCEA Level 1 Science (1SCI) and /or Horticulture (1HOR) course or HOD approval required.

Leads on to 3AGR

Fees As required for Field Trips.

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Describe the role of Elements and Fertilisers in Primary Production and Soil Testing	US	19142	3	I	6
DKO Agriculture/Horticulture Property Water Systems	US	30	3	I	3
DKO Fertiliser and the Implication for Handling and Spreading Fertiliser	US	19373	3	I	2
Describe Pasture Supply and Demand, Feeds and Grazing Systems	US	24628	3	I	7
DKO Methods for Promoting on-farm Livestock Health and Health Problems of Livestock	US	19103	3	I	8
DKO Soil Properties and their Effect on Plant Growth	US	22175	3	I	10
DKO Sheep Genetics and Ram Selection	US	19157	3	I	5
DKO Calving and Associated Diseases and Health Disorders	US	19075	3	I	3
DKO the Types, Breeds, Uses and Health Requirements of Farm Dogs	US	19111	3	I	4
DKO Cattle Genetics and Selection	US	24624	3	I	5
DKO = Demonstrate the Knowledge of Students can select from the standards listed above					

HORTICULTURE 3 (3HOR)



Science

Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Description Students learn about the production and marketing of nationally and locally significant agricultural or horticultural products. An analysis is also made of a primary production environmental issue.

Assessment A range of internal assessment tasks will take place during the year. These are based on research and investigations carried out by the students. External Achievement Standards will be assessed in an end of year 3 hour exam.

Pre-requisites: Those students who have successfully completed Level 2 NCEA Horticulture (2HOR) or HOD approval.

Leads on to Tertiary studies in Agriculture or Horticulture.

Fees As required for Field Trips.

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Research the production and marketing of a locally produced primary product	AS	90649	3	I	5
Investigate production and marketing of a nationally significant primary product	AS	90650	3	I	4
Explain market forces and the relationship(s) between market opportunities and primary products	AS	90651	3	E	6
Explain the production process for a nationally significant primary product	AS	90652	3	E	5
Analyse a primary production environmental issue	AS	90653	3	E	4
Total					24

These assessments may be chosen as well as unit standards selected by the students.

BIOLOGY 3 (3BIO)



Science

Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Description This course covers four aspects of Biology: Organisms and their environment; contemporary biological issues; genetics and evolution; plant or animal investigation

Assessment External Achievement Standards will be assessed in an end of year three hour exam. Internal Achievement Standards and Unit Standards that support the externals will be assessed through the year.

Pre-requisites A minimum of eight credits in 2BIO or Teacher in charge (TiC) approval.

Leads on to University courses in Sciences / Arts; Polytechnics

Fees Course Manual \$25

Achievement / Unit standards

Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Carry out an investigation into an aspect of the ecological niche of an organism with guidance	AS	90713	3	I	5
Research a contemporary biological issue	AS	90714	3	I	3
Describe gene expression	AS	90715	3	E	4
Describe animal behaviour and plant responses	AS	90716	3	E	4
Describe patterns of evolution	AS	90717	3	E	2
Describe applications of biotechnological techniques	AS	90718	3	E	3
Describe trends in human biological and cultural evolution	AS	90719	3	E	3
Total					24

The following Unit Standards may be offered depending on the needs of the student:
8931, 8932, 8933, 6317, 6318

CHEMISTRY 3 (3CHE)



Science

Target Year Group Year 13.

Duration and Timing One Timetable Block – Full Year Course

Description Atomic structure, quantitative chemistry, organic chemistry, aqueous solution chemistry, inorganic chemistry

Assessment External Achievement Standards will be assessed in an end of year three hour exam. Selected Unit Standards and Internal Assessment Standards will also be offered throughout this course.

Pre-requisites Twelve credits in NCEA Level 2 Chemistry (2CHE), eight credits in English and Mathematics at Level 1 or HOD/TiC approval.

Leads on to University

Fees Nil

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Aqueous systems	AS	90700	3	E	5
Extended practical investigation	AS	90694	3	I	4
Organic Chemistry	AS	90698	3	E	5
Properties of particles and Thermochemical principles	AS	90780	3	E	5
Total					19
The below Standards may be offered depending on the needs of the student:					
Enthalpy changes	US	8948	3	I	2
Periodic trends	US	6343	3	I	4
Organic chemistry	US	6344	3	I	5
Solubility	US	8950	3	I	2
Aqueous systems	AS	90700	3	E	5

ELECTRONICS TECHNOLOGY 3 (3ELE)



Target Year Group Year 13.

Duration and Timing One Timetable Block – Full or Half Year Course **Science**

Description An individualised learning programme for all students, providing, study practice and assessment in knowledge of: semiconductors; digital and analogue components; signals and information transmission; product quality and reliability and microcontrollers.

Assessment Five, internal Electronics Unit Standards will be assessed during the year. These will count towards the National Certificate in Electronic Technology (NCET) Level 3. To be awarded the certificate students will also have to gain 16 Level 3 credits from the Physics, Chemistry, Science, Computing and Mathematics domains

Pre-requisites NCET Level 2, or HOD/TiC approval

Leads on to Tertiary study in: Electronic Engineering and Design. Training and careers in Technical, Trades and related pursuits.

Fees Materials, \$18.00 and certificates, \$15.00 (to be verified)

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Demonstrate and apply knowledge of basic semiconductors.	US	19743	3	I	4
Demonstrate knowledge of basic digital and analogue electronic concepts.	US	19744	3	I	5
Demonstrate a basic knowledge of signals and the transmission of information	US	19745	3	I	5
Demonstrate basic knowledge of electronic product quality and reliability.	US	19746	3	I	5
Demonstrate and apply basic knowledge of microcontrollers.	US	19747	3	I	5
Describe product development	US	9221	3	I	3
Total					27

NB: Not all US listed above will offered in any one class in any given year. Standards will be offered at the teacher's discretion, in consultation with the class.

PHYSICS 3 (3PHY)



Science

Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Description A pre-tertiary physics course covering studies of: linear, rotational and periodic motions; waves, electromagnetism; nuclear interactions, and practical skills.

Assessment One, internal achievement standard will take place during the year. External Achievement Standards will be assessed in an end of year, three hour exam

Pre-requisites 16+ credits in NCEA Level 2 Mathematics (2MAX) and Physics (2PHY), or HOD/TiC approvals

Leads on to University: Physics; Engineering; Design; Medical and related studies.

Fees \$25 write on workbook.

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Wave phenomena	AS	90520	3	E	4
Mechanics	AS	90521	3	E	6
Atoms and radioactivity	AS	90522	3	E	3
Electricity and electromagnetism	AS	90523	3	E	5
Carry out practical investigation	AS	90774	3	I	5
Total					23

NB: Not all AS listed above will offered in any one class in any given year. Standards will be offered at the teacher's discretion, in consultation with the class.

HISTORY 3 (3HIS)



Target Year Group Year 13

Social Sciences

Duration and Timing One Timetable Block – Full Year Course

Description Students are able to pick topics from Tudor England, New Zealand Nineteenth Century, or a Battle. Campaign settings internally assessed credits total 9, from a total offering of 24 credits.

Assessment A range of internal assessment tasks will take place during the year. External Achievement Standards will be assessed in an end of year three hour exam

Pre-requisites Students should have gained at least 8 credits from Level 2 Social Science topics and have Level 2 literacy credits.

Leads on to University

Fees Fieldwork

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Historical Research Processes	AS	90654	3	I	5
Communication of Ideas and Understanding	AS	90655	3	I	4
Analyse Historical sources	AS	90656	3	E	5
Evaluate a significant decision (essay)	AS	90657	3	E	5
Evaluate a significant issue (essay)	AS	90658	3	E	5
Total					24

GEOGRAPHY 3 (3GEO)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Social Sciences

Description The course consists of standards totaling 24 credits, 12 of which are internally assessed. There are topics on Natural processes, Tourism and Decision Making / Planning.

Assessment A range of internal assessment tasks will take place during the year. External Achievement Standards will be assessed in an end of year three hour exam.

Pre-requisites Students should have gained at least 8 Level 2 credits from Social Science subjects. It is an advantage to have gained Literacy credits at Level 2.

Leads on to University

Fees Fieldwork

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Geographic Natural Environment	AS	90701	3	E	3
Cultural Process	AS	90702	3	E	3
Planning and Decision Making	AS	90703	3	I	3
Skills	AS	90704	3	E	4
Geographic Research	AS	90705	3	I	5
Geographic Issue	AS	90706	3	I	3
Global Study	AS	90707	3	I	3
Total					24

SOCIAL STUDIES 3 (3SSS)



Target Year Group Year 13

Social Sciences

Duration and Timing One Timetable Block – Full Year Course

Description There are 19 Internal Credits available. Students should be acutely aware of social issues in New Zealand as they affect society and the global setting. The course will be in full alignment with the 2010 curriculum.

Assessment A range of internal assessment Achievement Standard tasks will take place during the year. Students may opt for External assessments.

Pre-requisites Students should have gained at least 8 Level 2 credits from Social Science subjects. Literacy credits at Level 2, highly regarded.

Leads on to University

Fees Fieldwork

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Conduct a Social Studies Inquiry	AS	90691	3	I	6
Examine differing values positions	AS	90692	3	I	4
Decide on (and take) Social Action	AS	90693	3	I	4
Examine diversity in society	AS	90689	3	E	5
Explain people's responses to challenges facing society	AS	90690	3	E	5
Total					24

TOURISM 3 (3TOU)



Target Year Group Year 13

Duration and Timing Full Year Course

Social Sciences

Description This is the second year of a two year course. You will work with George Seymour College of Tourism and Travel Unit Standards. You can enter the course at Year 13 for the Level 3 work.

Assessment Unit Standards

Pre-requisites Students needs to demonstrate a career/employment interest in the Tourism field. You may be interviewed to check your suitability for the course.

Leads on to Level 4 at a Tertiary Provider for Tourism based courses or Tourism at University levels.

Fees Fieldwork

Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Describe and analyse the economic significance of Tourism.	US	24725	3	I	4
Describe and promote a New Zealand tourist destination.	US	24733	3	I	4
Demonstrate knowledge of Pacific Island countries as tourist	US	3727	3	I	8
Demonstrate knowledge of Australia as a tourist destination.	US	18211	3	I	8
Total					24

TECHNOLOGY FABRIC 3 (3TCF)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Technology

Description Students are expected to provide some of their own materials for practical work. Projects include an item of children’s clothing, a tailored shirt and the option for making an item for a home environment or a ball-gown. Other Unit Standards are available depending on the abilities and interests of the students. Work on an applied design and producing a portfolio of fashion drawings is also encouraged. There is some associated written work but the focus is on acquiring practical skills.

Assessment The course is Unit Standards based and is internally assessed.

Pre-requisites At least 12 credits in NCEA Level 2 Technology Fabric (2TCF) or HOD approval.

Leads on to Polytechnic, career in clothing related industries.

Fees \$20 per term, supply own fabric for some personal projects.

Achievement/Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
A course of Achievement Standards for textiles and technology will be developed in conjunction with students as the standards become available.					

TECHNOLOGY FOOD AND NUTRITION 3 (3TCN)



Technology

Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Description Four standards will be undertaken in Level 3, plus an advanced Barrista course may be undertaken if they pass Level 2 Barrista and have at least 6 months practice.

Leads on to Chef training courses, food technologist courses, teaching courses

Pre-requisites Pass at NCEA Level 2 Technology Food and Nutrition (2TCN) in 50% papers plus HOD approval. No outstanding subject fees from the previous year.

Fees \$100 per year.
All supplies are provided by the school from the subject fees.

Achievement/Unit Standards

Title	AS/US	Number	Level	Int or Ext	No of credits
Explore a current Nutritional Health Issue in New Zealand	AS	3.1	3	I	6
Provide ways in which the changes can be made for the Health Issue in 3.1	AS	3.2	3	I	6
Needs to have 6 months practice at making commercial coffees.	US	Advanced Coffee exams	3	I	4
Total					16

TECHNOLOGY GRAPHICS 3 (3GAD)



Target Year Group Year 13

Technology

Duration and Timing One Timetable Block – Full Year Course

Description The students obtain advanced skills and understanding in all aspects of graphic communication.

Assessment A range of internal assessment tasks will take place during the year.
External Achievement Standards will be sent for external moderation at the beginning of Term four of the course.

Pre-requisites Those students who have successfully completed the NCEA Level 2 Graphics (2GAD) course achieving a minimum of 12 credits and, or, with HOD approval.

Leads on to Tertiary Further and Higher Education.

Fees \$22.50 per term

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Develop a solution to a negotiated brief...	AS	90734	3	E	5
Present a solution using specialised graphic knowledge	AS	90735	3	E	4
Develop/present a solution to an architectural/environmental brief	AS	90736	3	I	5
Develop/present a solution to an engineering/technological brief	AS	90737	3	I	5
Develop/present a solution to a media / technical illustration brief	AS	90738	3	I	5
Total					24

TECHNOLOGY CONSTRUCTION AND MATERIALS 3 (3TME)



Target Year Group Year 13

Technology

Duration and Timing One Timetable Block – Full Year Course

Description This course is made up of Achievement and Unit Standards. It encourages students to make design solutions using a variety of skills, materials and projects. It also includes skill building and skill development for careers in general engineering and related industries.
Students will undertake the ‘Grass Kart’ project.
Consideration may be given to enter the South Island Grass Kart Challenge, subject to approval and finances.

Assessment A range of internal assessment tasks using Unit Standards, will take place during the year.

Pre-requisites Those students who have successfully completed the 2TME course achieving a minimum of 12 credits and, or, HOD approval.

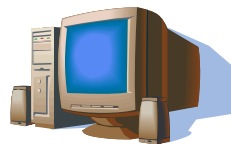
Leads on to Tertiary Further and Higher Education, or apprenticeship training.

Fees \$100 for materials. (plus an additional cost of \$250 if the engine kit set is required)
A student who has not paid the relevant fees for materials will not be permitted to take the ‘Grass Kart’ or any product home.

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Test and select materials for a design task.	US	7529	3	I	5
Use and care for fixed machine tools in materials technology.	US	7530	3	I	5
Select, apply and test joining processes for materials technology.	US	7531	3	I	5
Construct a prototype of a technical solution using composite materials.	US	13405	3	I	6
Incorporate functionally dependent mechanisms into a prototype of a technical solution.	US	13408	3	I	6
Total					27

ACCOUNTING 3 (3ACC)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Business Studies

Description To enable students to take an effective part in economic activity and contribute to future well-being.
To help students to understand why and how and groups and communities make decisions about the use of scarce resources.
To provide a foundation for further study at a higher level.

Assessment A range of internal assessment tasks will take place during the year. External Achievement Standards will be assessed in an end of year three hour exam

Pre-requisites NCEA Level 2 Accounting (2ACC) or HOD approval required.

Leads on to University study or Polytechnic courses

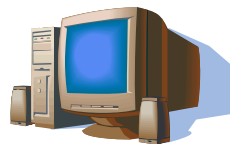
Fees Nil

It is likely that this course will be offered through the Correspondence School

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Describe and apply the conceptual basis of accounting in context	AS	90500	3	E	4
Process financial information for partnerships and/or companies	AS	90501	3	E	3
Process financial information for a manufacturing job cost subsystem	AS	90502	3	E	3
Report financial information for partnerships and/or companies	AS	90503	3	E	6
Prepare a report that analyses and interprets a company's financial report for external users	AS	90504	3	I	5
Explain and prepare information for management decision making	AS	90505	3	E	3
Total					24

ECONOMICS 3 (3ECO)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Business Studies

Description This course will give you a useful insight into the operation of the market system, government intervention and the overall working of the economy with effects of government policy. This course focuses on macroeconomics and the concepts of aggregate economic activity

Assessment A range of internal assessment tasks will take place during the year. External Achievement Standards will be assessed in an end of year three hour exam

Pre-requisites A minimum of eight credits from the NCEA Level 2 Economics course or HOD approval required.

Leads on to University study or Polytechnic courses

Fees Nil

NOTE: It is highly likely that this course will be offered through the Correspondence School

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Understand marginal analysis and the behaviour of firms	AS	90629	3	E	5
Describe an economic problem, allocative efficiency, and market responses to change	AS	90630	3	E	4
Describe market failure and government interventions to correct for market failure	AS	90631	3	E	4
Describe aggregate economic activity	AS	90632	3	E	6
Collect and process information, and carry out an economic analysis	AS	90778	3	I	5
Total					24

INFORMATION AND COMMUNICATIONS TECHNOLOGY 3 (3ICT)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Business Studies

Description This course enables students to achieve the National Certificate in Computing Level 3 - 46 Credits. This course includes designing advanced business spreadsheets and databases, and computer graphics. It also can provide a single subject entry to university

Assessment A range of internal assessment task will take place during the year. The course is individualized so students undertake assessments when necessary pre-learning has taken place

Pre-requisites Nil but ideally students should have completed the National Certificate in Computing Level 2

Qualification Any or all of
National Certificate in Level 3 Computing
NCEA Level 3
National Certificate in Business Administration and Computing

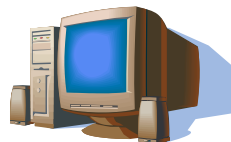
Leads on to National Certificates at Level 4, University or Polytechnic

Fees Printing and internet connection.

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Create a computer spreadsheet to provide a solution for organisation use	US	2785	3	I	5
Create and use a computer database to provide a solution for organisation use	US	2787	3	I	5
Produce desktop published documents for organisation use	US	2789	3	I	6
Demonstrate knowledge of the principles of computer networks	US	2797	3	I	4
Discuss the social implications of information technology	US	5968	3	I	3
Produce documents for a workplace using a computer	US	24872	3	I	3
Create a website for a stakeholder using a mark-up language	US	25657	3	I	6
Create a website for a stakeholder using a dedicated web-authoring tool	US	25658	3	I	5
Investigate the use of Information and Communications Technology in an organisation	US	25782	3	I	6

CERTIFICATE IN OFFICE ADMINISTRATION (3ADM)



Target Year Group Year 13

Duration and Timing One Timetable Block – Full Year Course

Business Studies

Description A course in advance of Level 2. Course incorporates detailed research techniques, data transformation skills into other text and graphics applications like Power Point, Web Page design and spreadsheets. It also can provide a single subject entry to university

Assessment A range of internal assessment tasks will take place during the year. There are no external Achievement Standards so there is no external examination

Pre-requisites Preference given to students that have successfully completed the Certificate in Office Administration Level 2.

Qualification National Certificate in Business and Administration

Leads on to National Certificates at Level 4, University or Polytechnic

Fees Printing and internet connection.

Achievement / Unit Standards Assessed

Title	AS/US	Number	Level	Int or Ext	No of credits
Produce information using word processing functions	US	112	3	I	5
Create documents and manage files for generic text and information management	US	12884	3	I	3
Customise software features to manipulate text for generic text and information management	US	12886	3	I	6
Integrate text and images and refine file management for generic text and information management	US	12887	3	I	6

Students will have options within this course. It allows students to specialise after doing the basic core work.

STAR

Through STAR funding, the College is able to provide students with courses which are purchased from universities and polytechnics.

Students must demonstrate a genuine commitment to the subject. Only one subject may be chosen from this category.

A financial contribution towards the cost of the course may be required.

Possible subjects which can be obtained include:

Animal Care

Electrical Engineering

Nursing

Sports Training

Organic Horticulture

Early Childhood

Teacher Aiding

Psychology

Radio

Philosophy

Journalism

Students considering choosing a STAR funded course must discuss their request with Mr. Bennett.

GATEWAY

See Mr Bennett and the Level 2 course booklet if you are interested in applying for this course.

CORRESPONDENCE

Subjects which have too few students to form a class may still be studied with learning materials being supplied by Te Kura, the Correspondence School.

As New Zealand's largest school, the Correspondence School offers many other subjects for which local secondary schools are not resourced. If a student has a particular interest in a subject not included in this booklet, they should contact the College's Correspondence School coordinator, Mr. Bennett.

To be considered for learning by correspondence students must have established a good record of self- management and have good reasons for choosing the subject.

Last up-date 25/08/2011

1.Planning your future.....	2
2.National Qualifications and Certificates	3
3.Entrance to University	5
4.Course Overview	5
5.Sample Course Selection Form	7

Subjects

Level 3

Arts

3ART Visual Arts	9
3MPA Maori Performing Arts	11
3MUS Music Studies	12
3PHT Photography	8

Business Studies

3ACC Accounting.....	32
3ADM Certificate in Office Administration	35
3ECO Economics.....	33
3ICT Information and Communications Technology	34

Languages

3DRA Drama	10
3ENG English.....	13
3MAO Te Reo Maori.....	14

Mathematics

3MAC Mathematics with Calculus.....	16
3MAS Mathematics with Statistics and Modelling.....	17

Physical Education

3PED Physical Education	15
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Science

3AGR Agricultural Science	18
3BIO Biology.....	20
3CHE Chemistry.....	21
3ELE Electronics	22
3HOR Horticulture	19
3PHY Physics	23

Social Science

3GEO Geography	25
3HIS History.....	24
3SSS Social Studies	26
3TOU Tourism.....	27

Technology

3GAD Graphics	30
3TCF Technology Fabric	28
3TCM Technology Construction and Materials.....	31
3TCN Technology Food and Nutrition	29

Vocational

Star/Gateway/Correspondence.....	36
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