

# Edgcumbe College



# Level 3 Course Booklet 2022

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# PLANNING YOUR FUTURE

The purpose of this booklet is to assist you to make informed choices for 2022, 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 2022. 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 2022 and satisfy course pre-requisites.

<b>Year 11</b>	You will study for the National Certificate of Educational Achievement Level 1 by gaining credits from Achievement and/or Unit Standards It is compulsory that you study courses in <b>English and Mathematics this year. A course in a Science is strongly recommended.</b> All other subjects are optional.
<b>Year 12</b>	You will study for the National Certificate of Educational Achievement Level 1 and/or 2, and/or National Certificates and/or Level 2 Vocation Pathway Awards. You should know which of your subjects continue into Level 3 courses. <b>You must study a course in English. Mathematics is compulsory if you do not have Numeracy.</b> All other subjects are optional.
<b>Year 13</b>	You will study for the National Certificate of Educational Achievement Level 1, 2 and/or 3, and/or National Certificates and/or Level 2 Vocational Pathway Awards. You need to consider career, polytechnic or university requirements when you choose your subjects <b>There are no compulsory subjects</b>

## Choice of Subjects

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

You will be placed in a class based on the combination of advice from the previous school, NCEA results, tests and an interview with the Year level Kaitiaki or Deputy Principal responsible for the senior school.

# 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 will offer a minimum of 16 credits.
- You will study 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 usually awarded at Credit (Achieved) only, but a few can be achieved at Merit and Excellence grades.
- 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.

**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 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. You need 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.

More details of the standards can be found at the site

<https://www.nzqa.govt.nz/ncea/subjects/literacy-and-numeracy/level-1-requirements/>

### 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 maybe achieved from either Achievement Standards or Unit Standards.
- You also need to gain the Level 1 Literacy and Numeracy requirement

### 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.
- Credits maybe achieved from either Achievement Standards or Unit Standards.
- You also need to gain the Level 1 Literacy and Numeracy requirement
- If considering applying for University, the following year it is **strongly advised** that you study five University approved Level 3 subjects in Year 13. **If you take four or more University Approved Level 3 subjects you may be able negotiate a study line with Mr. Murphy.**

### National Certificates offered at Edgecumbe College are: (teacher responsible)

- National Certificate in Computing Levels 2 & 3 (See Ms. McKernan)
- National Certificate of Business and Computing Levels 2 & 3 (See Ms. McKernan)
- National Certificate in Tourism Level 2 (See Dr. Murphy)
- National Certificate in Mechanical Engineering Technology Level 1&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 Mrs. Jackson)

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 “Excellence” for any level. To gain a Merit endorsement you need to gain 50 or more credits at a Merit level. To gain an Excellence endorsement you need to gain 50 or more credits at an Excellence level. Credits gained in a higher level can count down to enable you to gain an endorsement at a lower level.

**Note:** Usually Unit Standards will not give you credits towards Merit or Excellence endorsement.

### **Subject (Course) Endorsement**

You will gain an endorsement for a course where you achieve:

- 14 or more credits in a subject (at least 3 credits need to be from externally assessed standards and 3 from internally assessed standards. See note below).
- To gain an Excellence Course endorsement the 14 credits need to be at Excellence level
- To gain a Merit Course endorsement the 14 credits need to be at Merit level or a combination of Merit and Excellence level credits.
- To gain an Achieved Course endorsement the 14 credits need to be at an Achieved level or a combination of Achieved, Merit and Excellence level credits.
- 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.

### **NZ 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 even 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 you gain a Scholarship appears on your Record of Achievement. You can enter up to 3 Scholarship exams.

# VOCATIONAL PATHWAYS

The Vocational Pathways were developed in collaboration with industry and education to better align and prepare students for further study, training or work. There are six pathways:

- Construction and Infrastructure (C.I)
- Creative Industries (C.R)
- Manufacturing and Technology (M.T)
- Primary Industries (P.I)
- Services Industries (S.I)
- Social and Community Services (S.C)



Standards have been assessed to see which of the 6 industries their content aligns to or supports. Some standards support all pathways. When you look through the course information you will find some subjects are more aligned to specific pathways e.g. Hospitality credits are only aligned with the Service Industry (S.I) pathway.

You can gain a Vocational Pathways Award in one or all pathways. More information can be found at <http://www.youthguarantee.net.nz/vocational-pathways/>

Your vocational pathway progress can be accessed through the student portal on KAMAR. Your vocational pathway record can be viewed through your NZQA login page.

# ENTRANCE TO UNIVERSITY

## Minimum standard

- Gaining Level 3
  - and
- Gaining 14 credits at Level 3 in each of **three** University approved subjects (see the list on the next page)
  - plus
- a minimum of 10 numeracy credits at Level 1 or higher in Mathematics
  - and
- a minimum of 10 literacy credits at Level 2 or higher (5 must be reading and 5 writing). The Literacy component for University Entrance at Level 2 can be achieved in designated standards in many subjects. Information indicating this is shown in the course outlines. Ask your subject teacher for details or check out <http://www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/literacy-requirements/>

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

Credits can be accumulated over more than one year. Where a Unit Standard and an Achievement Standard assess the same learning outcomes, they are mutually exclusive for the NCEA qualifications and university entrance purposes. You can check these out by asking your subject teacher or visiting the web site

[http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/#\\_msocom\\_6](http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/#_msocom_6)

## University Approved Subjects for 2022

Accounting	Digital Technologies	Indonesian	Processing Technologies
Agriculture & Horticulture	Drama	Japanese	Psychology
Biology	Earth and Space Science	Korean	Religious Studies
Business Studies	Economics	Latin	Samoan
Calculus	Education for Sustainability	Mathematics/ Pāngarau	Science/Pūtaiao
Chemistry	English	Media Studies	Sculpture (Practical Art)
Chinese	French	Music Studies	Social Studies
Classical Studies	Geography	New Zealand Sign Language	Spanish
Construction and Mechanical Technologies	German	Painting (Practical Art)	Statistics
Cook Islands Māori	Health Education	Photography (Practical Art)	Technology/ Hangarau
Dance	History	Physical Education	Te Ao Haka
Design (Practical Art)	History of Art	Physics	Te Reo Māori
Design and Visual Communication	Home Economics	Printmaking (Practical Art)	Te Reo Rangatira
			Tongan

A new subject (Te Ao Haka) has been added to the Approved Subjects list, for the 2021 and 2022 academic years, to accommodate the piloting of the standards.

More details of approved subjects and the approved standards within each subject can be found at

<http://www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/approved-subjects/>



## Course Overview at Edgecumbe College

Area	Year 9	Year 10	Level 1	Level 2	Level 3
<b>The Arts</b>	Visual Arts	Visual Arts	Visual Arts	Visual Arts (Painting, Photography)	Visual Arts (Painting Design, Photography Print, Sculpture)
	Māori Performing Arts	Māori Performing Arts Drama	Māori Performing Arts Drama	Māori Performing Arts	Māori Performing Arts
	Music	Music	Music Studies	Music Studies	Music Studies
<b>English</b>	English	English	English	English Literacy and Com.	English Literacy and Com.
<b>Languages</b>	Mandarin	Mandarin	Other Languages	Other languages	Other languages
	Te Reo Māori	Te Reo Māori	Te Reo Māori	Te Reo Māori	Te Reo Māori
<b>Health and Physical Education</b>	Physical Education & Health	Physical Education & Health	Physical Education	Physical Education	Physical Education
<b>Mathematics</b>	Mathematics	Mathematics	Mathematics	Mathematics	Mathematics
			Applied Maths	Applied Maths	
<b>Science</b>	Science	Science	Science Applied Science	Biology Chemistry Physics	Biology Chemistry Physics
	Horticulture	Agriculture & Horticulture Science	Agriculture & Horticulture Science	Agriculture & Horticulture Science	
<b>Social Science</b>	Social Studies	Social Studies	Geography History	Geography History Tourism	Geography History Tourism
<b>Technology</b>	Food Technology	Food Technology	Hospitality	Hospitality	Hospitality
	Design and Visual Communication	Design and Visual Communication	Design and Visual Communication	Design and Visual Communication	Design and Visual Communication
	Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	Mechanical Engineering
	Technology Wood	Technology Wood	Building and Construction	Building and Construction	Building and Construction
<b>Business Studies</b>	Digital Technologies	Digital Technologies	Office Administration	Office Administration	Office Administration
			Information and Communication Technology	Information and Communication Technology	Information and Communication Technology
<b>Vocational</b>			Gateway Star Courses Trades Academy	Gateway Star Courses Trades Academy	Gateway Star Courses Trades Academy
<b>Languages</b>	Mandarin	Mandarin	Other Languages	Other languages	Other languages
	Te Reo Māori	Te Reo Māori	Te Reo Māori	Te Reo Māori	Te Reo Māori

# Year 13 Course Selection

## CHOICES YOU MUST MAKE:

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

Year 13 students who have gained

- less than 20 Level 2 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 students have not achieved Level 1, they will need to read the Year 12 course selection notes.**

Year 13 students doing **four or more Level 3 University approved subjects** (see page 8) may be able to negotiate a study with Mr. Murphy.

**If there are reasons not to follow these guidelines, please see Mr Murphy.**

## Codes used in the course selection information

**AS** – Achievement Standard      **US** - Unit Standard

**I/E** - indicates if the standard is internally (I) or externally (E) assessed.

**Crd** - number of credits the standard is worth.

**L/N** - indicates if the standard counts toward Level 1 Literacy (L) or Numeracy (N).

**R/W** – indicates if the standard counts towards University Entrance Literacy (R - Reading and W-Writing).

**TIC** – Teacher in charge      **HOD**- Head of Department

**Endorsement** – this indicates if a subject Achieve, Merit or Excellence endorsement can be achieved from the course

# Photography 3 (3PHT)

- Description** To be successful in Level 3 Photography students need to be independent creative critical thinkers. These skills will enable students to manipulate either film or digital media whilst exploring their photographic idea.
- Assessment** A number of internal assessments are available. These play a supporting role to the folio which is externally assessed.
- Prerequisites** Ideally completion of NCEA Level 2 Photography (2PHT) or HOD approval (Mr. Folker).  
Note: it is ideal if students taking Photography have the use of their own digital camera.
- Leads on to** This course leads on to anything creative. The subject does not impede work opportunities. Increasingly, the value of creatively is being recognised in workplaces. Alternatively, the subject will assist on getting you into tertiary education, subject to course requirements.

**Endorsement** Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Analyse methods and ideas from established photography practice	AS91442	I	4	L	
Use drawing to demonstrate understanding of conventions appropriate to photography	AS91447	I	4		
Systematically clarify ideas using drawing informed by established photography practice	AS91452	I	4		
Produce a systematic body of work that integrates conventions and regenerates ideas within photography practice	AS91457	E	14		

Reviewed July 2021

## Possible career pathways

Advertising, Film/TV, Media Productions, Photographer.

# Visual Arts 3 (3ART)

- Description** To be successful in Level 3 Art, students need to be independent critical thinkers. These skills will enable students to resolve the ongoing development of idea and manipulation of media to best effect.
- Assessment** A number of internal assessments are available. These play a supporting role to the portfolio which is externally assessed.
- Prerequisites** Completion of NCEA Level 2 Practical Art (2ART) or HOD (Mr. Folker) approval.
- Leads on to** University if that is what you desire. Creative subjects develop creativity, concentration, self-expression, risk taking and even improve hand eye co-ordination. Rather than being a barrier to future success it is an asset. Where do you want to go?
- Endorsement** Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Analyse methods and ideas from established painting practice	AS91441	I	4	L	
Use drawing to demonstrate understanding of conventions appropriate to painting	AS91446	I	4		
Systematically clarify ideas using drawing informed by established painting practice	AS91451	I	4		
Produce a systematic body of work that integrates conventions and regenerates ideas within painting practice	AS91456	E	14		

Reviewed July 2019

## Possible specific career pathways

Creativity is becoming increasingly valued in all walks of life and employment.

“Logic will get you from A to B. Imagination will take you everywhere.” *Albert Einstein*

# Maori Performing Arts 3 (3MPA)

**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** Internally assessed during the year. The Unit Standards in the course can be achieved at Achieve, Merit or Excellence grades

**Pre-requisites** Successful completion of the NCEA Level 2 Maori Performing Arts (2MPA) course or HOD approval (Mr Hakiaha).

**Leads on to** Tertiary study

**Endorsement** Not available

**This subject is not approved for University Entrance but counts towards NCEA Level 3.**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Perform whakaraka	US15020	I	6		
Perform a Maori performing arts bracket	US22756	I	10		
Demonstrate knowledge of the historical development of Maori performing arts	US22757	I	6		

Reviewed July 2021

## Possible career pathways

Tour Guide, Teacher/Tutor, Tourism

# Music Studies 3 (3MUS)

- Description** The 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** Successful completion of the NCEA Level 2 Music (2MUS) course or TIC approval (Ms. Wilson).
- Leads on to** Tertiary Studies
- Endorsement** Not available

## This subject is approved for University Entrance

### Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
<b>Making Music.</b>					
Perform two programmes of music as a featured Soloist	AS91416	I	8		
Perform a programme of music on a second instrument	AS91417	I	4		
Perform two substantial pieces of music as a member of a group	AS91418	I	4		
Composing three original pieces of music	AS91419	I	8		
<b>Music Studies</b>					
Create two arrangements for an ensemble	AS91424	I	4		
Research a music topic	AS91425	I	6	L	R

Reviewed July 2021

### Possible career pathways

Musician, Audio Engineer, Live Sound Design, Media Producer, Sound Technician.

# English 3 (3ENG)

<b>Description</b>	This course provides the students with the opportunity to explore and think critically using a variety of written, oral and visual texts.
<b>Assessment</b>	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.
<b>Pre-requisites</b>	14 credits in NCEA Level 2 English (2ENG) or HOD approval (Mrs Irwin).
<b>Leads on to</b>	Tertiary study
<b>Endorsement</b>	Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Respond critically to specified aspect(s) of studied written text(s), supported by evidence	AS91472	E	4	L	RW
Respond critically to significant aspects of unfamiliar written texts through close reading, supported by evidence	AS91474	E	4	L	RW
Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas	AS91475	I	6	L	W
Respond critically to significant connections across texts, supported by evidence	AS91478	I	3	L	
Respond critically to significant aspects of visual and/or oral text(s) through close reading, supported by evidence	AS91480	I	3	L	
Develop an informed understanding of literature and/or language using critical texts.	AS91479	I	4	L	R
There is also the option to do any of the following standards: AS91473; AS91476; AS91477					

Reviewed July 2021

There is an expectation that all students will attempt at least ONE external standard at the end of the year.

**Possible career pathways:** Actor, Author, Copywriter, Editor, Journalist, Teacher.

# Literacy and Communication 3 (3LTC)

**Description** This course allows for individualised programmes of student interest. A range of technology design, core generic, work skills, Māori Tourism, media and communication skills papers are available. This is an alternative pathway to improving literacy skills at this level.

**Assessment** A range of internal assessment tasks will take place during the year. No external achievement standards will be assessed.

**Pre-requisites** Successful completion of a NCEA Level 2 English (2ENG) or Literacy and Communication (2LTC) programme

**Endorsement** Not available

**This subject is not approved for University Entrance but counts towards NCEA Level 3.**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Write in plain English	US1279	I	3		
Speak to a known audience in a predictable situation	US1307	I	3		
Read text to research information	US2990	I	4		
Write a report	US3491	I	4		
Write minutes for a formal meeting	US3494	I	3		
Contribute within a team or group which has an objective	US9681	I	3		
Write business correspondence to convey complex ideas and information	US11095	I	3		

Reviewed July 2021

## Possible career pathways

Any career that requires a general proficiency in communication.



# Te Reo Māori 3 (3MAO)

- Description** Comprises of internal and external components covering the skills of reading, writing, speaking and listening.
- Assessment** Three internal assessments will take place during the year. External Achievement Standards will be assessed in an end of year three-hour exam.
- Pre-requisites** Successful completion of the NCEA Level 2 Maori (2MAO) course or HOD approval (Mr. Hakiaha).
- Leads on to** A range of Tertiary options
- Endorsement** Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Whakarongo kia mōhio ki te reo Māori o te ao whānui	AS91650	I	4	L	
Kōrero kia whakamahi i te reo Māori o te ao whānui	AS91651	I	6	L	
Panui kia mōhio ki te reo Māori o te ao whānui	AS91652	E	3	L	R
Tuhi I te reo Māori o te ao whānui	AS91653	E	4	L	W
Waihanga tuhinga whai take i te reo Māori o te ao whānui	AS91654	I	4	L	W

Reviewed July 2021

## Possible career pathways

Curator, Editor, Health Promotor, Fisheries Officer, Journalist, TV/Radio Presenter.

# Physical Education 3 (3PED)

**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. Students devise strategies for a physical activity outcome and safety management in outdoor experiences. They apply biophysical principles to design, complete and critically evaluate the effectiveness of a personal plan to improve performance in a variety of physical activity settings. Students may also investigate current influences on physical activity in New Zealand society.

**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 (Ms. Barnes)

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

**Endorsement** Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Devise strategies for a physical activity outcome	AS91789	I	4		
Analyse a physical skill performed by self or others	AS91499	I	3	L	
Evaluate the effectiveness of a performance improvement programme	AS91500	I	4	LN	
Demonstrate quality performance of a physical activity in an applied setting	AS91501	I	4	N	
Examine a current physical activity event, trend, or issue and its impact on New Zealand society	AS91502	I	3		
Analyse issues in safety management for outdoor activity to devise safety management strategies	AS91504	I	3	L	

Reviewed July 2021

**Possible career pathway:** Physiotherapy, Sport Science, Education, Fitness Industry, Sport & Outdoor Physical Activity Services.

# Mathematics (3MAT)

**Description** This course aims to prepare students for University Statistics. It deals with statistical concepts as they relate to everyday contexts and various mathematical approaches to solving real life problems. The course will appeal to students wanting to enter careers in the field of Science, Social Science, Engineering and Medicine but at the same time will appeal to the student who wants to achieve a better understanding of the world around them.

**Assessment** A range of Mathematics internal achievement standards will be assessed during the year. External achievement standards will be assessed during the NCEA examination period at the end of the year.

**Pre-requisites** 14 credits in NCEA Level 2 Mathematics (2MAT) or HOD approval (Mr. Luca).

**Leads on to** Tertiary study.

**Endorsement** Available

**This subject is approved for University Entrance**

## Standards Available

Title	Standard	I/E	Crd	L/N	RW
Apply the algebra of complex numbers in solving problems	AS91577	E	5	N	
Apply differentiation methods in solving problems	AS91578	E	6	N	
Apply the geometry of conic sections in solving problems	AS91573	I	3	N	
Use critical path analysis in solving problems	AS91576	I	2	N	
Use statistical methods to make a formal inference	AS91582	I	4	L / N	
Conduct an experiment to investigate a situation using experimental design principles	AS91583	I	4	N	

Reviewed July 2021

## Possible career pathways

Architect, Engineer, Finance Manager, Market Research Analyst, Quantity Surveyor, Statistician.

# Biology 3 (3BIO)

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

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

**Pre-requisites** A minimum of 14 credits in NCEA Level 2 Biology (2BIO) or TIC approval (Ms. Elkington).

**Leads on to** University or Polytechnic courses in Sciences and Arts

**Endorsement** Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Carry out a practical investigation in a biological context with guidance.	AS91601	I	4	L/N	
Integrate biological knowledge to develop an informed response to a socio-scientific issue.	AS91602	I	3	L	R/W
Demonstrate understanding of responses of plants and animals to their external environment	AS91603	E	5	L	
Demonstrate understanding of how an animal maintains a stable internal environment.	AS91604	I	3	L	R
Demonstrate understanding of evolutionary processes leading to speciation.	AS91605	E	4	L	R/W
Demonstrate understanding of trends in human evolution.	AS91606	E	4	L	R/W
Demonstrate understanding of human manipulations of genetic transfer and its biological implications.	AS91607	I	3	L	R

Reviewed July 2021

## Possible career pathways

Biotechnologist, Health Promotor, Midwife, Nurse, Pest Controller, Pharmacy, Physiotherapist, Radiologist, Veterinary Nurse.

# Chemistry 3 (3CHE)

<b>Description</b>	Chemistry is at the centre of the Sciences, and together with Physics forms links to all science subject areas. A sound understanding of Chemistry provides a unique insight into how the world operates at the atomic level and provides access to employment in numerous areas.
<b>Assessment</b>	A range of internal achievement standards will be assessed during the year. External Achievement Standards will be assessed in an end of year three-hour exam.
<b>Pre-requisites</b>	12 credits in NCEA Level 2 Chemistry (2CHE) and eight credits in English (2ENG) and Mathematics (2MAT) or TIC (Mr. Murphy) approval.
<b>Leads on to</b>	University
<b>Endorsement</b>	Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Carry out an investigation in chemistry involving quantitative analysis	AS91387	I	4	L/N	W
Demonstrate understanding of spectroscopic data in chemistry	AS91388	I	3		
Demonstrate understanding of chemical processes in the world around us	AS91389	I	3	L	R/W
Demonstrate understanding of thermochemical principles and the properties of particles and substances	AS91390	E	5	L	
Demonstrate understanding of the properties of organic compounds	AS91391	E	5	L	
Demonstrate understanding of oxidation-reduction processes	AS91393	I	3		

Reviewed July 2021

## Possible career pathways

Medicine, Geochemists, Biochemistry, Veterinary Science, Dentistry, Biotechnology, Forensic Sciences, Agrochemical industry, Environmental Chemistry, Food Chemistry, Polymer Industry, Teaching, Pharmaceuticals, and many others.

# Physics 3 (3PHY)

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

**Assessment** One or two 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** 14 credits in NCEA Level 2 Mathematics (2MAT) and Physics (2PHY), or TIC (Mrs. Jackson) approval

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

**Endorsement** Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Carry out a practical investigation to test a physics theory relating two variables in a non-linear relationship	AS91521	I	4	L	
Demonstrate understanding of wave systems	AS91523	E	4	L	
Demonstrate understanding of mechanical systems	AS91524	E	6	L	
Demonstrate understanding of Modern Physics	AS91525	I	3	L	
Demonstrate understanding of electrical systems	AS91526	E	6	L	

Reviewed July 2021

NB: Not all Achievement Standards listed above will be offered in any given year. Standards will be offered based on student interest.

## Possible career pathways

Architect, Biomedical Engineer, Civil Engineer, Optician, Refrigeration/Air –conditioning Technician, Sound Technician.

# History 3 (3HIS)

**Description** At Level 3, History is an inquiry-led discipline that prepares students for the future, equipping them with knowledge and skills that are valuable and useful. These include research techniques, the skills needed to process and synthesise varied and complex materials, the skills needed to give clear and effective presentations, and the ability to articulate ideas and make them clear to others. With these skills, a student will enhance their employability and ability to cope with the rigours of post-secondary study. History prepares students to participate actively and critically in their world. Students headed to university study of any sort should consider History as a well-rounded preparatory subject.

**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 Level 2 literacy credits. See Mr. McClure for more info.

**Leads on to** University, other tertiary studies, career.

**Endorsement** Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Research a historical event or place of significance to New Zealanders, using primary and secondary sources.	AS91434	I	5	L	R
Analyse an historical event, or place, of significance to New Zealanders.	AS91435	I	5	L	R
Analyse different perspectives of a contested event of significance to New Zealanders.	AS91437	I	5	L	R
Analyse the causes and consequences of a significant historical event.	AS91438	E	6	L	R/W
Analyse a significant historical trend and the force(s) that influenced it.	AS91439	E	6	L	R/W

Reviewed July 2021

**Possible career pathways:** Legal Professions, Library, Information and Archivist careers, Politics, Publishing, Journalism, Media and Writing, Business and Commerce, Public Sector Administration, the charity and voluntary sectors, Museum Curator, History Teacher.

# Geography 3 (3GEO)

**Description** Level 3 Geography inspires students to help shape a better future. By studying geography at Level 3, students are able to recognise the responsibilities they have in relation to other people, the environment, and the long-term sustainability of the planet. Geography encourages students to think critically as they investigate contemporary geographic issues and consider possible solutions, explore the various perspectives of different groups of people and investigate important issues of relevance to New Zealand and the wider world. Lastly, Level 3 Geography equips students with skills for the future, equipping students with the knowledge and skills to interpret the world in which they live. Through purposeful study, students develop geographical understandings that lead to a diverse range of career or higher learning options.

**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** It is preferable that students have completed a NCEA Level 1 or 2 Social Sciences course (History or Geography) and have demonstrated good learning habits, by HOD approval (Mr. McClure).

**Leads on to** University and other tertiary studies or employment

**Endorsement** Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/ N	R/W
Demonstrate understanding of how interacting natural processes shape a New Zealand geographic environment	AS91246	E	4	L	W
Demonstrate understanding of how a cultural process shapes geographic environment(s)	AS91247	E	4	L	W
Analyse a significant contemporary event from a geographic perspective	AS91248	I	3	L	R/W
Demonstrate understanding of a given environment(s) through the selection and application of a geographic concepts and skills	AS91249	E	4		W
Conduct geographic research with consultation	AS91250	I	5		
Analyse aspects of a contemporary geographic issue	AS91251	I	3	L	W
Analyse aspects of a geographic topic at a global scale	AS91252	I	3	L	W
Apply spatial analysis, with consultation, to solve a geographic problem	AS91253	I	3		

Reviewed July 2021

**Possible career pathways:** Cartographer, Consultant, Environmental Manager, Immigration Policy Analyst, Researcher, Urban or Regional Planner, District and Regional Councils, Energy and Water Management, Environmental Consultancies, Mining and Resource Companies, Ministry for the Environment, NZ Planning Institute



# Tourism 3 (3TOU)

- Description** Studying Tourism (which includes Tourism Māori) at Level 3 provides students with the necessary skills and knowledge to pursue employment opportunities within the tourism industry. Students will be able to display the attitude and commitment required to work in the tourism industry, demonstrate skills in computing, communications, and service sector expertise. Students also demonstrate knowledge and skills necessary to provide visitors with an authentic and pleasant New Zealand experience. Level 3 Tourism standards are assessed under the following broad headings - specific destinations and regions, economic significance of tourism, Tourism Māori, customer service skills in tourism, plan a career pathway.
- Assessment** A range of internally assessed Unit Standards will be completed during the year.
- Pre-requisites** Students need to have gained NCEA Level 2 and demonstrate a career/employment interest in the Tourism field. Alternatively, it is by HOD or TIC approval (Mr. McClure or Dr. Murphy).
- Leads on to** Level 4 or 5 at a Tertiary Provider for Tourism based courses or Tourism at University levels.
- Endorsement** Not available

**This subject is not approved for University Entrance but counts towards NCEA Level 3**

## Standards this course may cover

Title	Standard	I/E	Crđ	L/N	RW
Demonstrate knowledge of Pacific Island countries as visitor destinations	US3727	I	5		
Demonstrate knowledge of Australia as a visitor destination	US18211	I	5		
Demonstrate knowledge of New Zealand as a tourist destination	US18212	I	8		
Describe and promote a New Zealand tourist destination	US24733	I	8		
Explain the importance of Māori place names and use reo Māori greetings and farewells in tourism.	US31070	I	4		
Identify and explain the cultural significance of natural and man-made attractions in Tourism Māori	US31071	I	6		

Reviewed July 2021

**Possible career pathways:** Tour Guide, Travel Agent, Concierge, cruise ship personnel, iwi tourism initiatives, Recreation & Events Co-ordinator, Hotel/Motel Manager, Flight Attendant, Musician, Ship's Officer, Ship's Master, Taxi Driver/Chauffeur, Train Conductor, Pilot (aeroplane, helicopter), Teacher of English to speakers of other languages, Curator.

# Technology Mechanical Engineering 3 (3TME)

**Description** This course 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

**Assessment** ITO Unit Standards Assessment tasks at Level 2 and 3 will be assessed during the year. The student will need to present a completed product and associated theory tasks.

**Pre-requisites** Those students who have successfully completed the NCEA Level 2 Technology Mechanical Engineering (2TME) course and achieved a minimum of 12 credits or HOD approval (Mr. van Veen)

**Leads on to** The award of a National Certificate in Mechanical Engineering Technology Level 2 and pre-trade apprenticeships.

## Standards this course may cover

Title	Standard	I/E	Credit	L/N	R/W
Perform basic mechanical engineering machining operations under supervision. (Level 2)	US21906	I	12		
Produce components by performing engineering machining operations in MaPS environment. (Level 3)	US32054	I	7		

Reviewed July 2021

**Possible career pathways:** Engineering; Structural, Automotive. Mechanical; Fitter & Turner, Fitter Welder, Sheet Metal Worker, Welder.

# Technology Building and Construction 3 (3TBC)

- Description** A course in advance of Level 2. Aspects of this course are expected to take students through the entire set of processes in producing a project. This means that from the design, the student will be expected to plan, order, purchase, make and evaluate the project as well as covering Health and Safety requirements to ensure a well-made product that has been successfully completed without any Health and Safety issues.
- Assessment** A range of internal assessment tasks will take place during the year. There are no externally assessed components.
- Pre-requisites** Students need to have successfully completed the NCEA Level 2 Building and Construction (2TBC) course or with HOD approval (Mr. van Veen).
- Qualifications** Level 3 Building and Construction and Allied Trade Skills (BCATS).
- Leads on to** Level 4 BCATS. Possible apprenticeship training.
- Endorsement** Not available

**This subject is not approved for University Entrance but counts towards NCEA Level 3**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Follow safe workplace practices and contribute to a Health and Safety culture in a BCATS environment	US29677	I	2		
Select, use and maintain tools, equipment and machinery for a stage 3 BCATS project	US29682	I	4		
Undertake a stage 3 BCATS project	US29684	I	12		

Reviewed July 2021

## Possible career pathways

It is expected that the student will become part of the BCATS online environment that will allow them access to further educational studies and apprenticeship opportunities within the Building and Construction industry.

# Design and Visual Communication 3 (3DVC)

**Description** This course extends the students skill level and understanding of the design process, instrumental drawing, computer aided design and a range of modes and media techniques used in graphic communication.

**Assessment** A range of internal assessment tasks will take place during the year. External Achievement Standards will be sent off for external moderation at the beginning of Term 4.

**Pre-requisites** Students need to have successfully completed the NCEA Level 2 Design and Visual Communication (2DVC) course by achieving a minimum of 12 credits or with TIC approval (Mr. Whelan).

**Leads on to** Further Tertiary and Higher Education

**Endorsement** Available

**This subject is approved for University Entrance**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	R/W
Initiate design through exploration	AS91627	E	4		
Develop a visual presentation that exhibits a design outcome to an audience	AS91628	I	6		
Resolve a spatial design through graphics practice	AS91629	I	6		
Resolve a product design through graphics practice	AS91630	I	6		
Produce working drawings to communicate production details for a complex design	AS91631	I	6		

Reviewed July 2021

## Possible career pathways

Architect, Architectural Technician, Digital Artist, Graphic Designer, Industrial Designer, Signmaker, Engineering, Building & Construction

# Hospitality (3HOS)

- Description** This is an industry pre-training course for work or further training in the hospitality industry. It is designed for students who wish to pursue a career in Hospitality or as a chef, cook, caterer or baker.
- Assessment** A range of internally assessed Unit Standards will be completed during the year.
- Pre-requisites** Students should have completed the NCEA Level 1 Hospitality (1HOS) and NCEA Level 2 Hospitality (2HOS) courses. Within those courses the following standards must have been achieved: Level 1 US15921 and US19770; Level 2 US167 and US14434. Also, HOD approval (Mrs. Esterhuizen) is required.
- Leads to** Chef/cookery apprenticeship, work/career ready for a commercial kitchen, working in a café, café counter service, starting one's own baking business.
- Endorsement** Not Available

**This subject is not approved for University Entrance but counts towards NCEA Level 3**

## Standards this course may cover

Title	Standard	I/E	Crđ	L/N	RW
Demonstrate knowledge of food contamination hazards and control methods used in a food business	US168	I	4		
Prepare and cook egg dishes in a commercial kitchen	US13314	I	4		
Prepare and cook basic pasta dishes in a commercial kitchen	US13316	I	3		
Prepare and bake basic cakes, sponges and scones in a commercial kitchen	US13325	I	4		
Provide café counter service in a hospitality establishment	US14441	I	5		

Reviewed July 2021

## Possible career pathways

Baker, Café/Restaurant Manager, Café Worker, Dietician, Food Technologist, Maitre d'Hotel.

# Information And Communications Technology 3 (3ICT)

- Description** This course works towards the achievement of the National Certificate in Computing Level 3 (46 Credits). The course includes designing advanced business spreadsheets and databases, and computer graphics.
- Assessment** A range of internal assessed Unit Standards will take place during the year. The course is individualised, so students undertake assessments when necessary pre-learning has taken place
- Pre-requisites** Successful completion of the NCEA Level 2 Information and Communication Technology (2ICT) course or TIC approval (Mrs. McKernan).
- Qualification** National Certificate in Level 3 Computing  
National Certificate in Business Administration and Computing
- Leads on to** National Certificates at Level 4, University or Polytechnic.
- Fees** Printing and internet connection.
- Endorsement** Not available

**Subject NOT approved for University Entrance but counts towards NCEA Level 3**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Produce a spreadsheet for organisational use	US29786	I	3		
Develop and evaluate an interactive website for organisational use	US29788	I	5		
Use desktop publishing application to produce documents	US29792	I	4		
Use the internet and common digital devices and software to gather information and connect with other users and devices (optional)	US29795	I	5		

Reviewed July 2021

**Possible career pathways:** Computer Support Technician, Database/Systems Administrator, ICT Manager, Telecommunications Engineer /Technician.

# Certificate in Office Administration 3 (3COA)

- Description** The course incorporates detailed research techniques and data transformation skills into other text and graphics.
- Assessment** A range of internally assessed Unit Standards will be completed during the year.
- Pre-requisites** Successful completion of the NCEA Level 2 Certificate in Office Administration (2COA) course or TIC approval (Mrs. McKernan).
- Leads on to** National Certificates at Level 4, University or Polytechnic
- Endorsement** Not available

**This subject is not approved for University Entrance but counts towards NCEA Level 3**

## Standards this course may cover

Title	Standard	I/E	Crd	L/N	RW
Apply text processing skills to produce business documents	US108	I	5		
Produce information using word processing functions	US112	I	5		
Customise software features to manipulate text for generic text and information management	US12886	I	6		
Integrate text and images and refine file management for generic text and information management	US12887	I	6		

Reviewed July 2021

## Possible career pathways

Business organisations, Computer Support Technician, Database/Systems Administrator, ICT Manager, Telecommunications Engineer/Technician.

# Gateway 3 (3GAT)

**Description** Gateway is a work placement program that enables students to experience an industry or job they are interested in. They also complete unit standards relevant to the work placement.

**Work experience is usually for 6-10 placement days. Sometimes the work experience and some short courses may be outside school hours/holiday time due to the nature of the placement or to minimise the loss of learning time.**

**Assessment** Students are expected to earn 20 credits through Gateway.

**Pre-requisites** Prior to acceptance on to a Gateway placement, the student will be interviewed and expected to have some knowledge of their career plans

A core of unit standards will be offered, some of which can be achieved before the student commences the work placement. See the Level 2 course booklet for more information.

Short courses will also be offered during the year. These may include First Aid, Health & Safety, Leadership & Communication, Customer Service Award (Level 2).

For further information or to apply please see

– Mrs. N. Anderson. Gateway Co-ordinator

Email: [nan@edgecumbecollege.school.nz](mailto:nan@edgecumbecollege.school.nz)