

Table of Contents

2.	13 Accounting	13ACC
	13 Agriculture Horticulture	13AGH
3.	13 Art Painting	13APA
	13 Art Projects	13ARP
4.	13 Art Photography	13APH
	13 Art History	13ARH
5.	13 Biology	13BIO
	13 Business Studies	13BUS
6.	13 Child Development	13CDV
	13 Chemistry	13CHE
7.	13 Classical Studies	13CLS
	13 Design and Visual Communication (Graphics)	13DES
8.	13 Digital Technologies	13DIT
	13 Digital Technologies: Practical	13DIP
9.	13 Drama	13DRA
	13 Economics	13ECO
10.	13 English	13ENG
	13 English Language Studies	13ELS
11.	13 ESOL (English for Speakers of Other Languages)	13ESL
	13 Food and Nutrition	13FNT
12.	13 Foundation Studies	13FST
	13 Furniture	13FRN
13.	13 Geography	13GEO
	13 German	13GER
14.	13 Gateway	13GTY
	13 History	13HIS
15.	13 Hospitality	13HSP
	13 Japanese	13JPN
16.	13 Law	13LAW
	13 Mathematics with Calculus	13MAC
17.	13 General Mathematics	13MAG
	13 Statistics and Modelling	13SAM
18.	13 Te Reo Māori	13MAO
	13 Tikanga Māori	13TIK
19.	13 Materials Technology: Fabrics	13MTF
	13 Materials Technology: Hard	13MTH
20.	13 Music	13MUS
	13 Music Performance	13MUP
21.	13 Online Learning	13ONL
22.	13 Performing Arts Technology	13PER
	13 Physical Education	13PED
23.	13 Physics	13PHY
	13 Science	13SCI
24.	13 Sport and Exercise Performance	13SEP
	13 Tourism	13TOU

Please read the Course Descriptions contained in this booklet in conjunction with the Curriculum Booklet

13 Accounting**13ACC**

Qualification: NCEA Level 3
Entry Requirements: Level 2 Accounting with 11 credits or by consultation with Miss Bedward.

Content/Skills:

- Processing financial information
- Preparing financial statements
- Business analysis
- Financial decision making
- Accounting theory

UE approved subject: Yes
Field Trips: None
Non-compulsory cost: Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	2	8
External Achievement Standards	3	3	13

Enquiries to: Miss Bedward

13 Agriculture Horticulture**3AGH**

Qualification: NCEA Level 3
Entry Requirements: Level 2 achievement in any of the following subjects - Agricultural Science, 12 Agriculture Academy, Biology, Economics, or by consultation with Mr Millichamp.

Content/Skills:

- Investigation into a NZ primary product or its production
- Report on factors impacting on profitability of NZ primary products
- Market forces affecting supply and demand of NZ primary products
- How production process affects profitability of NZ primary products
- Analyse a NZ primary production issue

UE approved subject: Yes
Field Trips: One or two as required – voluntary contribution towards transport will be advised at the time.
Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	2	10
External Achievement Standards	3	3	14

Level 3 Agriculture Academy option available in consultation with Head of Agriculture Department

Enquiries to: Head of Agriculture, Mr Millichamp

13 Art Painting**13APA****Qualification:** NCEA Level 3, or negotiation with HOD**Entry Requirements:** An achieved grade or higher in the Level 2 Painting folio**Content/Skills:**

- This course is an extension of skills and ideas visited in Year 12 Painting, focusing specifically on modern painting practice
- Study of modern and traditional artists
- Students aim to produce a well-developed and sophisticated portfolio of work

UE approved subject: Yes**Field Trips:** TBC**Course Costs:** \$50 (including art stationery pack retained by students).

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	2-3	8-12
External Achievement Standards	3	1	14

Enquiries to: Head of Art, Ms Robertshaw**13 Art Projects****13ARP****Qualification:** NCEA Level 3**Entry Requirements:** Level 2 Art Standards.**Content/Skills:**

- This course has a focus on Drawing, Design, Photography and Illustration
- Develop ideas through making art works
- Develop an understanding of other artists' work
- This course is comprised of internal assessments only, students who perform strongly in internals may complete a Design portfolio (Head of Department approval required)
- Develop your creative potential and awareness of creative industries

UE approved subject: Yes**Field Trips:** TBC**Course Costs:** \$37 (including art stationery pack retained by students).

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	2 or 3	3-4	12-16
External Achievement Standards	-	-	-

Enquiries to: Head of Art, Ms Robertshaw

13 Art Photography

13APH

Qualification: NCEA Level 3

Entry Requirements: Level 2 Photography folio pass or HOD approval

Content/Skills:

- Develop skills and ideas particular to photography in an area of personal interest
- To extend a student's abilities to express their ideas using photography and digital mediums
- Study of modern and traditional artists, photographer and designers
- Students aim to produce a well-developed and sophisticated portfolio of work.

UE approved subject: Yes

Field Trips: TBC

Course Costs: \$32 (including art stationery pack retained by students).

Students will also need their own good quality digital cameras, SD card and external hard drive.

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	2-3	8-12
External Achievement Standards	3	1	14

Enquiries to: Head of Art, Ms Robertshaw

13 Art History

13ARH

Qualification: NCEA Level 3

Entry Requirements: Good English skills recommended. Please note there is a required minimum number of students for this course or an alternative of an on-line course will be offered.

Content/Skills:

- Relationship between art and context
- Meanings are communicated
- Understanding of style in art works
- Values of art
- Media and process of an artwork
- Theory of art

UE approved subject: Yes

Field Trips: TBC

Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	12
External Achievement Standards	3	3	12

Enquiries to: Ms Lewis

13 Biology**13BIO****Qualification:** NCEA Level 3**Entry Requirements:** At least 14 Credits from Level 2 Biology or consultation with Head of Science Faculty. Students not gaining Merit grades or better in Level 2 are likely to struggle with the Level 3 course.**Content/Skills:**

- Understanding of diversity, structure, function and interrelationships of living organisms, and their interactions with the abiotic environment
- Understanding of genetics, evolution and human evolution
- Understanding of interactions between humans and their environment, and how these are influenced by developments in biological knowledge and technology
- Scientific investigative skills and attitudes

UE approved subject: Yes**Field Trips:** An optional three day trip to the NZ Marine Studies Centre Dunedin, for participating students a cost of approx. \$240 towards this will be advised at the time. This trip is an extension to the 19 credit Biology course and provides an outstanding opportunity for students to extend their research skills.**Voluntary Course Contribution:** Student Workbook \$31(approx.)

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	10
External Achievement Standards	3	3	13

Enquiries to: Head of Science, Mr Aulsford**13 Business Studies****13BUS****Qualification:** NCEA Level 3**Entry Requirements:** Completion of Year 12 Business Studies in compulsory**Content/Skills:**

- Market research
- Marketing strategies
- Business operation
- Problem solving

Leads to UE approved subject: Yes**Field Trips:** Nil**Voluntary Course Contribution:** Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	2	2	15
External Achievement Standards	2	1	4

Enquiries to: Miss Bedward

13 Child Development**13CDV**

Qualification: NCEA Level 3
Entry Requirements: General Entry Standard
Content/Skills:

- Working toward a National Certificate in Early Childhood Education and Care, Level 3
- Demonstrate knowledge of the development and learning of children
- Describe the value of play and create resources for children's development and learning in an ECE service
- Develop knowledge of cultural diversity and apply effective communication with whanau/families in an ECE Service.

UE approved subject: No
Field Trips: Visits during class time to local preschool
Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	3	6	24
Internal Achievement Standards	-	-	-
External Achievement Standards	-	-	-

Enquiries to: Mrs Johnstone

13 Chemistry**13CHE**

Qualification: NCEA Level 3
Entry Requirements: At least 14 Credits from Level 2 Chemistry or consultation with Head of Science Faculty. Students not gaining Merit grades or better in Level 2 are likely to struggle with the Level 3 course.

Content/Skills:

- Redox chemistry involving titrations and understanding processes in electrochemistry
- Properties of particles and thermochemistry
- Organic chemistry – an extension of Level 2
- Carry out a practical investigation

UE approved subject: Yes
Field Trips: None
Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	10
External Achievement Standards	3	2	10

Enquiries to: Head of Science, Mr Aulsford

13 Classical Studies**13CLS****Qualification:** NCEA Level 3**Entry Requirements:** 14 credits at Level 2 Classical Studies or History, or in consultation with Mrs Hampton.**Content/Skills:**

- Heroes of the ancient world
- Alexander the Great
- Propaganda in Roman Art and Architecture

UE approved subject: Yes**Field Trips:** University of Canterbury – voluntary contribution of approx. \$20 towards transport, this will be advised at the time.**Voluntary Course Contribution:** Student Workbook \$20

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	2	12
External Achievement Standards	3	2	10

Enquiries to: Mrs Hampton**13 Design and Visual Communication (Graphics)****13DES****Qualification:** NCEA Level 3**Entry Requirements:** 9 credits in Level 2 Graphics or by consultation with HOD.**Content/Skills:**

- Design skills
- Developing the use of both hand and computer-based tools
- Develop problem-solving skills.
- Topics include architectural and product design
- Students have a choice of the standards they want to attempt from those we offer.

UE approved subject: Yes**Field Trips:** None**Course Costs:** \$25 for graphic stationery, including A3 blocks of cartridge paper, graphic pencils, A3 folder, Set Squares and ruler retained by student

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	18
External Achievement Standards	3	2	10

Enquiries to: Head of Faculty, Mr Pearce

13 Digital Technologies

13DIT

Qualification: NCEA Level 3
National Certificate in Computing Level 3

Entry Requirements: Completion of Year 12 DIT with at least 14 credits

Content/Skills:

It is important that we produce those who both use *and* understand technology. To that end this course blends programming, and the use, understanding and development of common workplace tools such as the ubiquitous spreadsheet and database applications. The emphasis is on problem solving and fitness for purpose.

- Digital Information – word processing, spreadsheets, database development
- Digital Media – digital image manipulation, desktop publishing
- Programming – website development & coding with Python
- Planning and designing digital solutions that are fit for purpose
- Problem-solving

Content will vary depending on cohort.

UE approved subject: Yes

Field Trips: None

Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	3	1	4
Internal Achievement Standards	3	3	12
External Achievement Standards	3	1	4

Enquiries to: Head of Department, Mr Molyneux

13 Digital Technologies: Practical

13DIP

Qualification: NCEA Level 1 2 & 3

Entry Requirements: 12 DIP or by arrangement with HOD

Content/Skills:

- Keyboarding
- Computer functions
- Practical computer skills in word processing, desktop publishing, spread sheeting and presentations
- Internet

UE approved subject: No

Field Trips: None

Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	3	5	19
Internal Achievement Standards	-	-	-
External Achievement Standards	-	-	-

Enquiries to: Head of Department, Mr Molyneux

13 Drama**13DRA****Qualification:** NCEA Level 3**Entry Requirements:** Completion of NCEA Level Two or in consultation with the Head of Drama, Mrs Backhouse-Smith.**Content/Skills:**

- Drama techniques and elements in extended performance opportunities
- Theatre practitioners
- Devising Drama
- Reviewing live theatre

UE approved subject: Yes**Field Trips:** Up to three Theatre trips during the year – voluntary contribution of approx. \$35 per trip towards transport will be advised at the time.**Voluntary Course Contribution:** Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	14
External Achievement Standards	3	1	4

Enquiries to: Head of Drama, Mrs Backhouse-Smith**13 Economics****13ECO****Qualification:** NCEA Level 3**Entry Requirements:** 14 credits in Level 2 Economics or equivalent. The 14 credit requirement must include 1 external.**Content/Skills:****This course is a mixture of Micro-economics and Macro-economics.**

- Micro-economic concepts and market equilibrium
- The efficiency of different markets using marginal analysis
- Government interventions to correct for market failures
- Macroeconomic influences on the NZ economy

UE approved subject: Yes**Competitions:** NZ Economics Competition – Auckland University**Voluntary Course Contribution:** Student Workbook \$40

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	2	10
External Achievement Standards	3	2	10

Enquiries to: Head of Social Sciences, Mrs Mitchell

13 English**13ENG****Qualification:** NCEA Level 3**Entry Requirements:** At least three Level 2 English achievement standards (but not including 91102 Speech).**Content/Skills:**

- Reading and analysing written text including novels, short stories and poetry
- Analysing film
- Unfamiliar texts
- Literary criticism
- Theme study
- Presentation skills
- Essay writing for exams

UE approved subject: Yes**Field Trips:** None**Voluntary Course Contribution:** Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	Up to 3	11-14
External Achievement Standards	3	Up to 3	8-12

Enquiries to: Head of English, Ms Macpherson**13 English Language Studies****13ELS****Qualification:** NCEA Level 2 with some Level 3 standards. UE standards available (Level 2).**Entry Requirements:** Students who are **bi-lingual**. A continuation of 12ELS.
*Students on this course develop their own learning plans in consultation with the teacher.***Part One: Careers Investigation**

- A chance to complete standards not passed at Level 2
- Write a Report 3491 : Level 3
- Write in Plain English :Level 3
- Formal Interview: Level 2
- Plan a career pathway: Level 3

Part Two: Level Two Standards: U.E Reading/Writing standards

- Research-Information Literacy: Level 2
- Film Study: Level 2
- Short Text Study: Level 2
- Personal Reading : Level 2

Leads to UE approved subject: Yes**Field Trips:** None**Voluntary Course Contribution:** Nil

	Level	Number of Standards	Credits
Unit Standards	2-3	-	-
Internal Achievement Standards	2	3	-
External Achievement Standards	1-2	2	8

Enquiries to: Head of English, Ms Macpherson

13 ESOL (English for Speakers of Other Languages)**13ESL****Qualification:** NCEA Level 3**Entry Requirements:** None**Content/Skills:**

- Reading
- Writing
- Speaking
- Listening

UE approved subject: Partially (3 standards only)**Field Trips:** None**Voluntary Course Contribution:** Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	6	30
External Achievement Standards	-	-	-

Enquiries to: Mrs Thompson**13 Food and Nutrition****13FNT****Qualification:** NCEA Level 3**Entry Requirements:** Successful completion of Level 2 Food and Nutrition or successful completion of a research Achievement Standard in another subject at Level 2.**Content/Skills:**

- Food Safety
- Multinational Food Production
- Evaluating Nutritional Information
- Analyse a Food Related Ethical Dilemma
- Look at Food Advertising

UE approved subject: Yes**Field Trips:** A Food Safety Unit Standard is completed at the Polytechnic, taking two days.**Course Costs:** \$35 for the take home component supplied by the department (ingredients).

	Level	Number of Standards	Credits
Unit Standards	3	1	4
Internal Achievement Standards	3	2	10
External Achievement Standards	3	2	8

Enquiries to: Ms Ferguson

13 Foundation Studies**13FST****Qualification:** NCEA and New Zealand Certificate in Study and Career Preparation**Entry Requirements:** Students will be invited to be in this course through interview**Content/Skills:**

- Work collaboratively and in a team
- Use English language for report writing
- Develop career goals (Work Experience; Personal Presentation)
- Complete a project
- This course takes up two options

Leads to UE approved subject: No**Field Trips:** Contribution or cost towards relevant trips and activities depending on topics studied to be advised**Voluntary Course Contribution:** Nil

	Level	Number of Standards	Credits
Unit Standards	3	12	40
Internal Achievement Standards	-	-	-
External Achievement Standards	-	-	-

Enquiries to: Ms Carrick**13 Furniture****13FRN****Qualification:** NCEA Level 3**Entry Requirements:** 10 credits in Level 2 Materials Technology or by consultation with HOF.**Content/Skills:**

This course is still being developed but will include:

- Drawing up working plans
- Basic carpentry including making cabinets

UE approved subject: TBC**Field Trips:** None**Course Costs:** TBC

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	TBC	Approx. 20
External Achievement Standards	-	-	-

Enquiries to: Head of Faculty, Mr Pearce

13 Geography**13GEO****Qualification:** NCEA Level 3**Entry Requirements:** Previous experience and success in Year 11 or Year 12 Geography is highly recommended, or by consultation with HOD Geography.**Content/Skills:**

- Interacting Natural Processes – Coastal Process – Kaikoura
- Cultural Processes – Tourism Development – Bali
- Geographic Inquiry – Kaikoura Beaches
- Geographic Skills/Concepts
- Geographic Issues (People Trafficking) & Global Studies (Diamond Industry)

UE approved subject: Yes**Field Trips:** Three day field trip to Kaikoura – voluntary contribution of approx. \$130 towards food and transport will be advised at the time.**Voluntary Course Contribution:** Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	11
External Achievement Standards	3	3	12

Enquiries to: Mrs Lees**13 German****13GER****Qualifications:** NCEA Level 3 FIT IN DEUTSCH A2/B1**Entry Requirements:** Successful Completion of Year 12 German.**Content/Skills:**

- Show understanding of spoken German (AS 3.1)
- Show understanding of written German (AS 3.4)
- Produce written German with resources (AS 3.5)
- Interact in spoken German (AS 3.3)
- Present a 3 minute (minimum) speech in German (AS 3.2)

UE approved subject: Yes**Field Trips:** None**Voluntary Course Contribution:** Nil**Non-compulsory Cost:** This is Language Subscription \$20 (optional).

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	14
External Achievement Standards	3	2	10

Enquiries to: Head of Languages, Mr Pow

13 Gateway**13GTY**

Qualification: NCEA Level 2 and NCEA Level 3

Entry Requirements: None, but students must complete an application form, followed by a selection interview with the Gateway Co-ordinator.

Students must be motivated to learn in the workplace, have a strong interest in a particular industry or career direction and be able to manage individualised learning and assessment. Reliability and an excellent attendance record are also required.

Places on the Gateway programme are limited to 45

Content/Skills:

- Provide students with the opportunity to 'test drive' their career choices in a real workplace, gaining valuable 'real' experiences and learning
- Gateway placement one day or part day per week for the school year or term

Leads to UE approved subject: No

Field Trips: None

Voluntary Course Contribution: Nil

Students study an individualised learning plan with Industry-based unit standards that contribute towards their NZQA Record of Learning. TEC has an expectation that students will achieve a minimum of 10 credits.

	Level	Number of Standards	Credits
Unit Standards	2 or 3	varied	Min. 10
Internal Achievement Standards	-	-	-
External Achievement Standards	-	-	-

Enquiries to: Gateway Co-ordinator, Mrs van Rooyen

13 History**13HIS**

Qualification: NCEA Level 3

Entry Requirements: Previous experience in Year 11 and Year 12 History recommended.

Content/Skills:

- 19th Century Banks Peninsula (aspects of)
- Israel – Palestine Conflict
- Women's Suffrage 19th Century New Zealand

UE approved subject: Yes

Field Trips: One day field trip to Akaroa. Voluntary contribution of approximately \$30.00.

Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	15
External Achievement Standards	3	2	10

Enquiries to: Mrs Hampton

13 Hospitality**13HSP****Qualification:** NCEA Level 3**Entry Requirements:** Successful completion of Level 2 Hospitality or negotiated entry with Level 3 Teacher. An interest in Food Hospitality a distinct advantage.**Content/Skills:**

- Food Safety
- Food preparation and presentation
- Barista
- Nutrition involved in commercial catering
- Culinary Products and Terms

Leads to UE approved subject: No**Field Trips:** Barista Unit Standard training may be completed at the Polytechnic.**Course Costs:** \$100 for the take home component supplied by the department (ingredients).

	Level	Number of Standards	Credits
Unit Standards	3	3	13-18
Internal Achievement Standards	-	-	-
External Achievement Standards	-	-	-

Enquiries to: Ms Neutze**13 Japanese****13JPN****Qualifications:** NCEA Level 3**Entry Requirements:** Successful Completion of Year 12 Japanese.**Content/Skills:**

- Show understanding of spoken Japanese (AS 3.1)
- Show understanding of written Japanese (AS 3.4)
- Produce written Japanese with resources (AS 3.5)
- Present a 3 minute (minimum) speech in Japanese (AS 3.2)
- Present two pieces of interaction (AS 3.3)

UE approved subject: Yes**Field Trips:** None**Voluntary Course Contribution:** Student Workbook \$15, Renash Book \$18**Non-compulsory Cost:** Language Perfect Subscription \$20 (optional).

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	19
External Achievement Standards	3	2	10

Enquiries to: Ms Horsley

Qualification: NCEA Level 3

Entry Requirements: No entry requirements.

Content/Skills:

- Evaluate a Concept of Democracy
- Evaluate a Concept of Justice
- Evaluate a Concept of Law (Negligence)
- Evaluate Litigation and Dispute Resolution
- Evaluate a Law Making Process

UE approved subject: No

Field Trips: None

Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	5	20
External Achievement Standards	-	-	-

Enquiries to: Mr Gleason

Qualification: NCEA Level 3

Entry Requirements: At least 14 credits from Level 2 Mathematics including both the algebra and calculus achievement standards (91261 and 91262)

Content/Skills:

- Algebra
- Calculus
- Trigonometry
- Conic sections

UE approved subject: Yes

Field Trips: Nil

Voluntary Course Contribution: Education Perfect \$20 and a graphics calculator is required

	Level	Number of Standards	Credits
Unit Standards			
Internal Achievement Standards	3	2	7
External Achievement Standards	3	3	17

Special notes: Students may take both 13MAC and either 13SAM or 13MAG. They may not take both 13SAM and 13MAG.

Enquiries to: Head of Maths, Ms Cabout or Mr Bock

13 General Mathematics**13MAG****Qualification:** NCEA Level 3**Entry Requirements:** At least 14 credits from Level 2 Mathematics achievement standards**Content/Skills:**

- Time Series
- Bivariate Data
- Statistical Inference
- Linear programming
- Simultaneous equations

UE approved subject: Yes**Field Trips:** Nil**Course Costs:** Nil although a BYO Device is required.

	Level	Number of Standards	Credits
Unit Standards			
Internal Achievement Standards	3	5	18
External Achievement Standards			

Special notes: Students may take both 13MAG and 13MAC. They may not take both 13SAM and 13MAG.**Enquiries to:** Head of Maths, Ms Cabout**13 Statistics and Modelling****13SAM****Qualification:** NCEA Level 3**Entry Requirements:** At least 14 credits from Level 2 Mathematics achievement standards including at least two Level 2 statistics or probability achievement standards (12 MAA students - 91264 and 91267, 12 MAG students two from 91263, 91264, 91268)**Content/Skills:**

- Probability
- Probability Distributions
- Statistical Reports
- Time Series
- Bivariate Data
- Statistical Inference

UE approved subject: Yes**Field Trips:** Nil**Voluntary Course Contribution:** Two workbooks \$7 each, and a graphics calculator is required

	Level	Number of Standards	Credits
Unit Standards			
Internal Achievement Standards	3	3	12
External Achievement Standards	3	3	12

Special notes: Students may take both 13SAM and 13MAC. They may not take both 13SAM and 13MAG.**Enquiries to:** Head of Maths, Ms Cabout or Mrs Henson

13 Te Reo Māori**13MAO****Qualification:** NCEA Level 3**Entry Requirements:** NCEA Level 2 Māori or by consultation with HOD.**Content/Skills:**

- Mihi, introduction
- Karakia, waiata
- Te Reo Maori language skills

UE approved subject: Yes**Field Trips:** Rāranga/weaving for girls. Taiaha wananga for boys**Voluntary Course Contribution:** Student Workbook \$25

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	16
External Achievement Standards	3	2	12

Enquiries to: Head of Department, Matua Tīipene**13 Tikanga Māori****13TIK****Qualification:** NCEA Level 3**Entry Requirements:** NCEA Level 2 Māori or by consultation with HOD.**Content/Skills:**

- Myths and legends
- Māori performing arts
- Māori Tourism
- Māori Culture

UE approved subject: No**Field Trips:** Marae visit**Voluntary Course Contribution:** Student Workbook \$20

	Level	Number of Standards	Credits
Unit Standards	3	6	18
Internal Achievement Standards	-	-	-
External Achievement Standards	-	-	-

Enquiries to: Head of Department, Matua Tīipene

Qualification: NCEA Level 3 and NCEA Level 4
Entry Requirements: There are no prerequisites for this course but study of this subject at Year 10, 11 and 12 is an advantage.

Content/Skills:

- Express ideas in practical terms
- Draft a pattern to interpret a design
- Research and conduct tests to find suitable fabrics and construction methods
- Use machinery and equipment appropriately
- Implement complex construction procedures
- Produce and evaluate high quality textile items

Students are able to select their own programme by selecting unit or achievement standards in Level 3 or 4 to suit their interest e.g. make a formal garment or tailored coat. Practical work at this level must be to a very high standard.

UE approved subject: Yes, if entering Achievement Standards but No, if entering Unit Standards.

Field Trips: None

Course Costs: The course requires students to purchase their own fabric, pattern and notions to complete three garments that they take home.
 \$30.00 for notions of take home component supplied by department (interfacing, overlocking thread, needles, fabric samples etc).

	Level	Number of Standards	Credits
Unit Standards	3	3	12
Unit Standards	4	1	6
Internal Achievement Standards	3	3	18
External Achievement Standards	-	-	-

Enquiries to: Mrs Bowis

Qualification: NCEA Level 3
Entry Requirements: 10 credits in Level 2 Materials Technology including Achievement Standard 2.3 or by consultation with HOD.

Content/Skills:

- Continuation of skills developed in previous years
- Undertake a community project that involves research and solving a real issue
- A large design component worth the majority of credits

UE approved subject: Yes

Field Trips: None

Course Costs: \$70 at the start of the year and extra materials consumed will be calculated at the end of the course for the take home component.

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	3	16
External Achievement Standards	Student can enter an external of their choice		

Enquiries to: Head of Technology, Mr Pearce

Qualification: NCEA Level 3

Entry Requirements: Level 2 Music

Content/Skills:

- Solo/Group performance
- Composition
- Arrangement
- Theory/Aural skills
- Analysis
- Research

UE approved subject: Yes

Field Trips: None

Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	4-6	20-32
External Achievement Standards	3	1-2	4-8

Enquiries to: Head of Music, Mr Diedricks

Qualification: NCEA Level 3

Entry Requirements: Level 2 Music or Music Performance

Content/Skills:

- Solo/Group performance
- Composition
- Arrangement
- Theory/Aural skills
- Music technology

UE approved subject: Yes

Field Trips: None

Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	3	1	8
Internal Achievement Standards	3	3-4	16-24
External Achievement Standards	3	1	4

Enquiries to: Head of Music, Mr Diedricks

Qualification: NCEA Level 3

Entry Requirements: Learning online requires students to be motivated, independent and organised. They have to be able to manage an online learning environment, including a range of online tools, and learn to communicate with their eTeachers and classmates by email, texting and Google hangouts.

Content/Skills:

Ashburton College is part of [NetNZ](http://netnz.org) (netnz.org), a community of secondary and area schools who specialise in the provision of high quality online programmes of learning for secondary age students throughout New Zealand. This allows our students to enrol in online courses and be supported by their eTeachers using Google Hangouts and a variety of web based learning environments. Students might choose an online subject if they: want to take a subject Ashburton College does not offer, have a column clash, need to be more flexible with their learning or enjoy learning online.

Each year approximately forty Ashburton College students successfully complete an online subject through [NetNZ](http://netnz.org). (netnz.org)

Visit the website for the hyperlink to [2018 courses](#).

Subjects offered online in 2018, which are not offered by Ashburton College, include: Art History, Psychology, Philosophy, Media Studies, Social Studies, French, Chinese, Korean, Spanish, Samoan, Tongan, L3 Computer Science (Datacom), Equine Studies.

Leads to UE approved subject: Dependent on the subject studied

Field Trips: Dependent on the subject studied

Voluntary Course Contribution: Nil

Enquiries to: eDean: Mrs Anne Williams wa@ashcoll.school.nz



13 Performing Arts Technology

13PER

Qualification: NCEA Level 2 and 3
Entry Requirements: Consultation with the Head of Drama, Mrs Backhouse-Smith.

Content/Skills:

- Dance, drama and music performance
- Performing Arts Technology such as makeup, lighting, production, stage craft and design
- Group work
- Theatre practices

Leads to UE approved subject: No
Field Trips: There may be an opportunity to view live performance.
Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	2-3	Choose from 4	21
Internal Achievement Standards	2-3	Choose from 7	29
External Achievement Standards	-	-	-

Students will choose 14 credits from any of a combination of five different performing arts disciplines as stated in the content section. This can include a combination of Unit and Achievement Standards. Students will work towards a theatre performance and take on different aspects of the production such as performance and technologies.

Enquiries to: Head of Drama, Mrs Backhouse-Smith

13 Physical Education

13PED

Qualification: NCEA Level 3
Entry Requirements: Minimum 14 credits from Level 2 PED or with recommendation from HOF.

Content/Skills:

- Programme standards will be a blend of compulsory and co-construction with students.
- Using the major concepts from 11 and 12 PED courses to look at content such as:
 - Breaking down, analysing and improving sporting skills.
 - Developing and evaluating the effectiveness of fitness or skill development programmes.
 - Managing risk in activities.
 - Developing strategies to ensure lifelong physical activity and well-being.

UE approved subject: Yes
Field Trips: To be confirmed after co-construction of programme with students.
Voluntary Course Contribution: To be confirmed

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	5	18
External Achievement Standards	-	-	-

Actual Standards are to be co-constructed with teacher but all will be internal.

Enquiries to: Any member of the PE Staff.

13 Physics

13PHY

Qualification: NCEA Level 3

Entry Requirements: At least 14 Credits from Level 2 Physics or consultation with Head of Science Faculty. Students not gaining Merit grades or better in Level 2 are likely to struggle with the Level 3 course.

Content/Skills:

- Research into real world Physics
- Modern Physics
- Waves and interference
- Mechanics
- Electricity

UE approved subject: Yes

Field Trips: None

Voluntary Course Contribution: Student Workbook \$30

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	2	6
External Achievement Standards	3	3	16

Enquiries to: Head of Science, Mr Aulsford

13 Science

13SCI

Qualification: NCEA Level 3

Entry Requirements: An interest in studying Sciences linked to industry and everyday life with 12 credits or more from a Level 2 Science subject or in consultation with the Head of Science.

Content/Skills:

This course will offer an opportunity to experience a broad range of Science-based Achievement Standards that are linked to different Vocational Pathways. Students may gain skills in Science related to Agriculture, Biology, Chemistry, Physics, Astronomy, Geology, Food and/or Health and Sport Science.

A final programme will be put in place as soon as student learning profiles are known.

UE approved subject: Yes

Field Trips: None

Voluntary Course Contribution: Nil

	Level	Number of Standards	Credits
Unit Standards	-	-	-
Internal Achievement Standards	3	4 or 5	16-20
External Achievement Standards	-	-	-

Enquiries to: Head of Science, Mr Aulsford

13 Sport and Exercise Performance**13SEP****Qualification:** NCEA Level 1, NCEA Level 2 and NCEA Level 3**Entry Requirements:** General Entry Standard**Content/Skills:**

- A very practically based subject where students will experience and participate in a wide range of physical activities in a variety of contexts.
- Students will develop a range of lifelong skills, and a better understanding of coaching, leadership, safety, risk management and skill acquisition.
- First Aid Certificate.
- Personal Training.
- Some written evidence required for most of the standards.

UE approved subject: No**Field Trips:** To be confirmed**Voluntary Course Contribution:** To be confirmed

	Level	Number of Standards	Credits
Unit Standards	3	3	14
	2	1	1
	1	1	1
Internal Achievement Standards	3	1	4
External Achievement Standards	-	-	-

Enquiries to: Any member of the PE staff.**13 Tourism****13TOU****Qualification:** NCEA Level 3, National Certificate in Tourism (Level 2)**Entry Requirements:** Nil, although having studied Year 12 Tourism would be helpful.**Content/Skills:**

- Tourism: Destination Australia
- Describe and promote 2 NZ destinations (Queenstown & Rotorua)
- Tourism: Destination Pacific Islands
- Tourism Industry
- Economic Significance of Tourism
- Te Reo Māori in Tourism

UE approved subject: No**Field Trips:** One day in Christchurch – voluntary contribution towards transport will be advised at the time.**Voluntary Course Contribution:** Nil

	Level	Number of Standards	Credits
Unit Standards	3	6	24+
Internal Achievement Standards	-	-	-
External Achievement Standards	-	-	-

Enquiries to: Miss Cadman