

# MORRINSVILLE COLLEGE



## YEARS 12 AND 13

## SENIOR STUDIES GUIDE

## 2019

# INTRODUCTION

It is time to start thinking about next year! You need to decide what subjects you wish to take. This booklet will help you to decide, by giving you an outline of each of the subjects you can choose at Year 12 and Year 13 levels.

Read carefully through the information on the subjects which interest you. Keep in mind how your choice of subjects will let you progress to the next level at school or in tertiary education. Some subjects are more difficult to start at Year 13. If you intend doing any of these subjects at tertiary level, you should study them at Years 12 and 13. Examples include Accounting, Biology, Chemistry, Japanese, Music, Digital Technologies Science, Mathematics and Physics. Remember that there are some subjects you would find difficult to pick up again if you drop them now. Also, in some areas you may need to take supporting subjects in order to give you the necessary background. It will make things much easier for you if you work these out now, before deciding on your course.

It is also wise to check out thoroughly any career ideas you have, to make sure you are taking the right subjects. Read through all the current leaflets on the career and talk with the Careers Adviser.

Your form teacher and subject teachers will also help you and give you some indication of your likely ability to cope with work at these levels. It is essential that you **ASK QUESTIONS**.

If you have difficulty making your subject choices discuss your problem with the Careers Adviser or one of the Senior Deans.

## *What to keep in mind when choosing Years 12 and 13 subjects*

# PRINCIPLES OF SUBJECT CHOICE

1. Get help. Who to talk to?
  - Subject teachers for course information
  - Ask teachers about the subjects they take
  - Careers Adviser for tertiary course or career requirements
  - Check with the Careers Adviser which subjects are needed or preferred for certain careers
  - Senior Deans for course planning
2. Parents are welcome to discuss subject choices and there will be the opportunity to do this at the beginning of the 2019 school year during the course registration interviews.
3. The later you specialise, the more flexibility you have and the longer you can delay your career choice. Keep your options open. Be flexible. Specialise only when you have set a clear career direction.
4. There are a number of useful websites aimed at helping people make subject choices' decisions.  
[www.careers.govt.nz](http://www.careers.govt.nz)  
[www.nomajordrama.co.nz](http://www.nomajordrama.co.nz)  
[www.nxtstep.co.nz](http://www.nxtstep.co.nz)
5. The College reserves the right to not run subjects where numbers are low or teachers are unavailable.

# WAYS TO TRAIN IN NEW ZEALAND

INSTITUTION	WHAT IS OFFERED
<ul style="list-style-type: none"><li>Schools</li></ul>	NCEA Vocational Pathways Awards
<ul style="list-style-type: none"><li>Industry</li></ul>	Apprenticeships Work-based training
<ul style="list-style-type: none"><li>Polytechnics and Technical Institutes</li></ul>	Pre-apprenticeship courses National Certificates, Diplomas or Degrees
<ul style="list-style-type: none"><li>University</li></ul>	Undergraduate Certificates, Diplomas or Degrees Postgraduates Certificates/Diplomas
<ul style="list-style-type: none"><li>Private training providers</li></ul>	National Certificate or Diploma courses

# SCHOOL DONATION REQUESTS AND SUBJECT FEES

Late in Term 1 the school will send out an account for subject fees and donations requests. Subject fees need to be paid as soon as possible or students may be taken out of an option class and placed in a subject which has no fees. Receipts will be issued for all fees paid.

## **Activities Donation - the donation requested by the Board of Trustees for 2019:**

**\$80**

The Activities Donation provides for educational, cultural, sporting and social activities, and such other expenses on behalf of the students as the Board considers desirable. While payment of the Activities Donation is not compulsory, all families are urged to meet this obligation for the benefit of the student. **It is a tax deductible donation.**

## **Computer & Equipment Donation:**

**\$50**

In line with the reasonable expectations of parents/caregivers, Morrinsville College is committed to providing computer technology and other specialised technological tools for our students to use, both for personal work, and as part of programmes of learning. This technology is very expensive, especially as changes in technology are frequent, and unfortunately it is not funded by Government. This donation will enable the College to provide the computer facilities needed, and to keep our other technology up-to-date. **This is also a tax-deductible donation.**

## **Duplicating Donation: Senior**

**\$25**

This donation is to cover the cost of providing duplicated material to students which the students get to keep as part of the teaching and revision programmes. This material is of great benefit to students and their learning. **This is also a tax deductible donation.**

## SUBJECT MATERIALS FEES

Subject materials fees are charged in Technology subjects to cover the cost of materials that are used by students and which enable them to produce a take-home project.

**These fees are NOT VOLUNTARY.** Failure to pay these subject fees, or to make arrangements to pay them, may result in resources being withdrawn from students.

Below are the subject fees for 2019:

### **Electronics Technology**

Years 12 & 13

**\$50**

Plus students purchase their own materials for the main project.

### **Home Economics, Hospitality and Food Technology**

Years 12 & 13

**\$90**

### **Technology Wood**

Years 12 & 13

**\$40**

Plus students purchase their own materials for projects

### **Technology Metal**

Years 12 & 13

**\$50**

Plus students purchase their own materials for projects

# SUBJECT DIAGRAM 2019

	Year	Year 10	Year 11	Year 12	Year 13
<b>LANGUAGES</b>					
Developing English Literacy				◆	
English	■	■	■	◆	◆
English (Functional Literacy (FLiT))			◆		
Japanese	◆	◆	◆	◆	◆
Te Ao Maori			◆	◆	◆
Te Reo Maori	◆	◆	◆	◆	◆
<b>MATHEMATICS</b>					
Mathematics 1			◆		
Mathematics 2			◆		
Mathematics Alternative			◆		
Mathematics 1				◆	
Mathematics 2				◆	
Mathematics 3				◆	
Mathematics with Calculus					◆
Mathematics with Statistics					◆
<b>SCIENCES</b>					
Agricultural Science			◆	◆	◆
Biology				◆	◆
Chemistry				◆	◆
General Science	■	■	■		
Physics				◆	◆
Science Internal			◆		
Environmental Science					◆
<b>TECHNOLOGY</b>					
Digital Technologies Business	◆	◆	◆	◆	
Digital Technologies Computer Science-	◆	◆	◆	◆	◆
Electronics Technology	◆	◆	◆	◆	◆
Home Economics/Food Technology	◆	◆	◆	◆	◆
Technology Metal	◆	◆	◆	◆	◆
Technology Wood	◆	◆	◆	◆	◆
<b>SOCIAL SCIENCES</b>					
Accounting			◆	◆	◆
Agribusiness				◆	◆
Classical Studies					◆
Economics	◆	◆	◆	◆	◆
Geography			◆	◆	◆
History			◆	◆	◆
Social Studies	■	■			
Tourism				◆	◆
<b>ARTS</b>					
Drama	◆	◆	◆	◆	◆
Music	◆	◆	◆	◆	◆
Art (Visual Art)	◆	◆	◆	◆	◆
<b>HEALTH AND PHYSICAL EDUCATION</b>					
General Studies				■	
Health Education	■	■			
Physical Education	■	■	■		
Sport and Fitness			◆		
Sport Studies			◆	◆	◆
<b>OTHER COURSES</b>					
Gateway				◆	◆
Transition				◆	◆
Services Academy		◆	◆	◆	◆

Key

■	Core subject (must be studied)
◆	Option subject

‘Only the educated are free’ *Epictetus (55 AD - 135 AD)*

# **YEAR 12 COURSES**

## **ARE YOU ELIGIBLE TO WORK TOWARDS NCEA LEVEL 2?**

Fourth year students are classed as Year 12 students. However, it is up to the College to determine whether you are or are not eligible to work towards NCEA Level 2. In determining eligibility to work at this level, the College considers:

- your attitude and effort in the classroom
- your ability to cope with the work
- your results at NCEA Level 1.

Possible scenarios:

- ⇒ You may qualify to work towards NCEA Level 2 in all subjects
- ⇒ you may have to repeat NCEA Level 1 in all subjects
- ⇒ you may be able to study a mixture of NCEA Levels 1 and 2 courses.

## **WHAT IS NCEA?**

**In 2019, most Year 12 students will be working towards Level 2 of the National Certificate in Education Achievement.**

- To be awarded NCEA Level 2 a student needs to gain 80 credits
- 60 of the 80 credits must be from Level 2 standards (or higher)
- Credits have three possible values: Achieved, Merit and Excellence
- You can accumulate credits either through gaining Achievement Standards or Unit Standards.

## **PROGRAMME OF LEARNING**



## **ASSESSMENT BY ACHIEVEMENT STANDARDS AND/OR UNIT STANDARDS**



## **RESULTS**



## **NCEA LEVEL 2 QUALIFICATION**



# CHOOSING YOUR YEAR 12 COURSE

The Subjects: You must choose English or Developing English Literacy and five other subjects. (You will also have some periods of General Studies/Health Education).

1. Sciences, including Digital Technologies Science, are important subjects in many careers, for example: the health field (laboratory work, physiotherapy, occupational therapy, nursing, medicine) and in engineering, architecture and similar careers. If a Science-based career is considered, check your subjects with the Careers Adviser.
2. Mathematics to NCEA Level 2 is required by virtually all advanced scientific and technical occupations. It is also important for such careers as Psychology, Accounting, Physical Education and Home Science.
3. Some subjects can be taken up for the first time at Year 12 level, for example: Agriculture, Economics, Geography, History, Hospitality, Sport and Fitness and Tourism, Business Studies and Transition.

# **YEAR 13 COURSES**

## **WHAT IS NCEA?**

**In 2019, most Year 12 students will be working towards Level 3 of the National Certificate in Education Achievement.**

- To be awarded NCEA Level 3 a student needs to gain 80 credits
- 60 of the 80 credits must be from Level 3 standards or above
- Credits have three possible values: Achieved, Merit and Excellence
- You can accumulate credits either through gaining Achievement Standards or Unit Standards.

## **PROGRAMME OF LEARNING**



## **ASSESSMENT BY ACHIEVEMENT STANDARDS AND/OR UNIT STANDARDS**



## **RESULTS**



## **NCEA LEVEL 3 QUALIFICATION**

## **NEW ZEALAND SCHOLARSHIP**

Secondary school students have the opportunity to enter for an award called New Zealand Scholarship.

New Zealand Scholarship extends our best secondary students and enables top scholars to be identified and acknowledged. Students will be able to enter one or more scholarship standard assessments as well as their Level 3 assessments.

The aim is to assess a student's ability to synthesise and integrate concepts – to apply higher-level thinking based on in-school and independent learning.

The content assessed for Scholarship is the same as that covered for Level 3 Achievement Standards. It is expected that Scholarship candidates will have completed a full year of Level 3 studies at a secondary school.

Assessment is standards-based and all assessment will be external.

## CHOOSING YOUR SUBJECTS

- Some subjects can be taken at NCEA Levels 2 and 3 for the first time, though some extra work will be required. Discuss your intention with the subject teacher concerned, before obtaining the Dean's approval. However, it is especially important to note prerequisites for University courses, or Technical Institute Courses eg physiotherapy, architecture, medicine, engineering.
- Before making a final decision on their course, students should consult the Careers Adviser or one of the Senior Deans.

## QUALIFYING FOR ENTRY TO UNIVERSITY IN 2019

A person shall be qualified for entrance to university in New Zealand if he/she has obtained:

- Level 3 NCEA and
- 10 credits in Numeracy at NCEA Level 1 or higher
- 5 credits in reading and 5 credits in writing at NCEA Level 2 or higher
- 14 credits in each of three approved subjects at NCEA Level 3

Generally, Unit Standard assessments do not qualify as 'approved subjects'. For more details see the information below:

### **Numeracy Level 1 or higher**

10 credits from specified achievement standards available through a range of subjects

### **Literacy Level 2 or higher**

5 reading

AND

5 writing from the specified list

The credits can come from a range of subjects.

### **Level 3 or higher 42 credits**

14 credits in one approved subject	14 credits in one approved subject	14 credits in one approved subject
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### **Achieve NCEA Level 3 Certificate**

Please note that this is the minimum university entrance standard. Many university courses require a much greater number of credits or a specific number of credits beyond Achieved level.

## YEAR 13 IS ALSO IMPORTANT IN OTHER WAYS:

- Less teacher supervision is provided and more self-discipline is expected from students.
- It is an essential year for many careers.
- As the most senior year at school, greater opportunities to demonstrate leadership are possible.
- It is a chance to think about yourself as a person and reflect on education and future life. This is a year of important decisions and a year to mature.

# Vocational Pathways

Vocational Pathways is a new award alongside NCEA level 2 and 3 – the foundation for success in further education and the world of work. There are 6 different pathways:

- Primary Industries
- Services Industries
- Social & Community Services
- Manufacturing & Technology
- Construction & Infrastructure
- Creative Industries



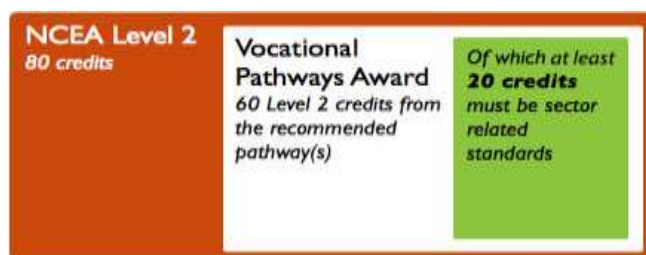
Government agencies, the industry training sector, secondary and tertiary representatives and industry and employer representatives worked together to develop the six Vocational Pathways for NCEA Level 2 as the foundation of the journey to employment

Achieving Vocational Pathways means that students have developed skills and achieved in areas that employers value, and that they have skills and knowledge that are relevant for their industries. When you are planning a career in this sector, the pathway helps you to see which subjects and standards you should do to get to where you want to go.

And if you haven't decided but are thinking about the future, the pathways can help you see how your strengths and interests match up to a challenging range of jobs and study options out there.

What is a Vocational Pathways Award?

To receive a Vocational Pathways Award, students must first gain NCEA Level 2, which is 60 credits from Level 2 and 20 credits from any other level; 80 credits in total. To get a Vocational Pathways Award, **a minimum of 20 Level 2 credits** must be from sector related standards, with the remaining from the recommended standards in one or more pathways to make up 60 pathway credits in total.



The Vocational Pathways Award(s) will be awarded to students on their NZQA Record of Achievement. This will be a real advantage when they look for work and training opportunities in the sector.

Use the profile builder throughout the year to track your progress. This is on Kamar and on the Youth Guarantee website: [www.youthguarantee.net.nz/vocational-pathways/profile-builder/](http://www.youthguarantee.net.nz/vocational-pathways/profile-builder/)

Level	2	Course Name: Accounting (12ACC)						
Course Overview		Accounting is an extremely useful subject for a student who envisages being involved in management positions (either a self-employed plumber, builder, farmer or retailer for instance, or employed by a firm as a manager or supervisor, or even an individual investing on the stock exchange or for taxation purposes). In today's world a person with some understanding of business accounts is at an advantage. Assessments will be offered from the following list:						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91174	Demonstrate understanding of accounting concepts for an entity that operates accounting subsystems.	2	E	4		Yes		
AS91175	Demonstrate understanding of accounting processing using accounting software.	2	I	4	Yes			
AS91176	Prepare financial information for an entity that operates accounting subsystems.	2	E	5	Yes			
AS91177	Interpret accounting information for entities that operate accounting subsystems.	2	E	4	Yes	Yes		
AS91179	Demonstrate understanding of an accounts receivable subsystem for an entity.	2	I	3	Yes	Yes		
AS591386	Demonstrate understanding of an inventory subsystem for an entity.	2	I	3				
AS91481	Demonstrate understanding of a contemporary accounting issue for decision-making.		I	4				
Total number of credits available								27
Prerequisites		This course is usually taken after gaining at least seven credits in Level 1 Accounting. For able students it may be possible to study this subject without having done Level 1 Accounting.						
Other Details		Material Costs	Workbook \$35					
		Expected Trips	Nil					
Where could this lead?		Accounting or Business Management studies at tertiary level; employment in business administration.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
					11		23	
See Mr Cochran or Mr O'Shaughnessy								

<b>Level</b>	<b>3</b>	<b>Course Name: Accounting (13ACC)</b>				<b>UE Approved Subject</b>		<b>Yes</b>	
<b>Course Overview</b>		This course builds on basic financial accounting concepts and processes developed in Levels 1 and 2 Accounting. It is extended to include a study of partnership and company accounts, cash-flow statements and budgets, cost accounting for managers, internal controls and decision-making. This course is intended mainly for students considering studying accounting or Business Management at tertiary level. Assessments will be offered from the following list:							
<b>Assessments Offered</b>									
<i>Standard Number</i>	<i>Title</i>		<i>Level</i>	<i>Int/Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS91404	Demonstrate understanding of accounting concepts for a New Zealand reporting entity.		3	E	4			Yes	
AS91405	Demonstrate understanding of accounting for partnerships.		3	I	4				
AS91406	Demonstrate understanding of company financial statement preparation.		3	E	5				
AS91407	Prepare a report for an external user that interprets the annual report of a New Zealand reporting entity.		3	I	5			Yes	Yes
AS91408	Demonstrate understanding of management accounting to inform decision-making.		3	E	4				
AS91409	Demonstrate understanding of a job cost subsystem for an entity.		3	I	4				
<b>Total number of credits available</b>									<b>26</b>
<b>Prerequisites</b>		Students should have studied accounting at NCEA Level 1 or at NCEA Level 2.							
<b>Other Details</b>		Material Costs		Workbook \$25 approximately.					
		Expected Trips		Nil					
<b>Where could this lead?</b>		Accounting or Business Management studies at tertiary level; employment in business administration.							
<b>Vocational Pathways</b>		<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>		<b>Creative Industries</b>	
				<b>4</b>	<b>17</b>			<b>8</b>	
<b>See Mr O'Shaughnessy</b>									

Level	2	Course Name: Agribusiness (12AGB)						
Course Overview		This course has been designed to encourage students to become financially literate and to show students how to set up and run a business. Topics covered include business planning, cash flow forecasting, market research, sales and advertising and financial record-keeping. Throughout the course emphasis will be placed on <u>agriculture</u> and business skills will be developed in relation to primary industries. Assessments will be offered from the list below (not all in any one year).						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS90843	Demonstrate understanding of the internal operations of a large business.	2	E	4		Yes		
AS90844	Demonstrate understanding of how a large business responds to external factors.	2	E	4		Yes		
AS91297	Demonstrate understanding of land use for primary production in New Zealand	2	E	4		Yes		
AS91865	Demonstrate understanding of future-proofing influences that affect business viability	2	I	4				
AS91866	Conduct an inquiry into the use of organisms to meet future needs	2	I	4				
AS91867	Demonstrate understanding of a primary industry business structure that meets the strategic needs of a business.	2	I	3				
AS91868	Demonstrate understanding of cash flow forecasting for a business.	2	I	4				
Total number of credits available								44
Prerequisites	A background in Year 11 Economics, Accounting or Agriculture would be helpful but is not essential.							
Other Details	Material Costs	\$5 plus workbook						
	Expected Trips	To be confirmed						
Where could this lead?	It will provide a useful background for Level 3 Agribusiness and could lead to many careers with Business Management or Primary Industries.							
See Mrs Driver or Mr O'Shaughnessy								

Level	3	Course Name: (13AGB) Agribusiness				UE Approved Subject		Yes	
Course Overview		This course has been designed to develop students’ financial literacy, with particular focus on agriculture. Topics covered include business planning, market research, sales and advertising, production, financial record-keeping. Assessments will be offered from the following list:							
Assessments Offered									
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing	
AS91379	Demonstrate understanding of how internal factors interact within a business that operates in a global context.	3	E	4					
AS91380	Demonstrate understanding of strategic response to external factors by a business that operates in a global context.	3	E	4					
AS91382	Develop a marketing plan for a new or existing product.	3	I	6					
AS91383	Analyse a human resource issue affecting businesses.	3	I	3					
AS91384	Carry out, with consultation, an innovative and sustainable business activity.	3	I	9					
AS3.3	Analyse how a product meets market needs through innovation in the value chain	3	I	4					
AS91735	Education for sustainability. Evaluate measures that may be taken to sustain and/or improve a biophysical environment.	3	I	4					
Total number of credits available								26	
Prerequisites		There are no prerequisites for this course, but previous study of Agribusiness, Economics, Accounting or Agricultural Science would be helpful. Students must also be willing to self-direct their own work and co-operate in groups.							
Other Details		Material Costs		Workbook \$50.					
		Expected Trips		Still to be confirmed					
Where could this lead?		To Business Management Studies or Agribusiness at tertiary level, or to employment in administration or primary industries.							
See Mr O’Shaughnessy									



<b>Level</b>	<b>2</b>	<b>Course Name: Agricultural Science (12AGR</b>				<b>UE Approved Subject</b>		<b>Yes</b>	
<b>Course Overview</b>		This course continues the pathway towards tertiary studies in Agricultural Science commenced in Year 11 as well as providing a good base for students intending to enter the Primary Industries sector through degree and polytechnic courses, as well as farm cadets and other work schemes associated with farming. There will be opportunities for those students who have out of school farm access to attempt the more practical Unit Standards.							
<b>Assessments Offered</b>									
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>	
AS91294	Demonstrate understanding of how New Zealand commercial management practices influence livestock growth and development	2	E	4					
AS91289	Carry out an extended practical agricultural or horticultural investigation	2	I	4					
AS91293	Demonstrate understanding of livestock reproductive techniques in NZ commercial production	2	I	4					
AS91298	Report on the environmental impact of production of a locally produced primary product	2	I	4					
<i>Total number of credits available</i>								<b>16+</b>	
<b>Prerequisites</b>		Year 11 Agriculture is helpful but not essential.							
<b>Other Details</b>		Material Costs	\$5						
		Expected Trips	Possible field trip to the Beef & Lamb conference and Massey University research dairy farm depending on calendar dates.						
<b>Where could this lead?</b>		This course provides a useful background for Level 3 Agricultural Science and could lead to many careers within the Primary Industries.							
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service		Creative Industries	
				31					
See Mrs Driver									

<b>Level</b>	<b>3</b>	<b>Course Name: Agricultural Science (13AGR)</b>				<b>UE Approved Subject</b>		<b>Yes</b>
<b>Course Overview</b>		This course continues the pathway towards tertiary studies in Agricultural Science commenced in Years 11 and 12 as well as providing a good base for students intending to enter the farming sector through polytechnic courses, farm cadets and other work schemes associated with farming.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS91532	Analyse a NZ primary production environment issue	3	E	5				
AS91528	Carry out an investigation into an aspect of NZ primary product or its production.	3	I	4			Y	Y
AS91529	Research and report on the impact of factors on the profitability of a NZ primary product	3	I	6			Y	Y
<b>Total number of credits available</b>								<b>15</b>
<b>Prerequisites</b>		Previous study in Agricultural Science or Accounting/Economics is helpful but not essential.						
<b>Other Details</b>		Material Costs	\$5					
		Expected Trips	Hawkes Bay to visit those areas of primary industry to be studied this year.					
<b>Where could this lead?</b>		To a career in agriculture or horticulture or to further study at a tertiary institution.						
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
				31				
<b>See Mrs Driver</b>								

Level	2	Course Name: Visual Arts (12ART)	UE Approved Subject					No
Course Overview	The aim of the Year 12 Art course is to provide students with a thorough grounding in painting and/or printmaking practices. Students will research and apply traditional and contemporary Art ideas in a systematic way through to finished artworks. <ul style="list-style-type: none"><li><b>Painting Course:</b> The internal assessments AS91311 (2.2) and AS91316 (2.3) are integrated to create a body of work from which students produce the externally assessed AS91321 (2.4 painting folio). Total credits: 20</li><li><b>Printmaking Course:</b> Students may specialise in printmaking, creating AS91313 (2.2) and AS91318 (2.3), followed by the externally assessed AS91321 (2.4 printmaking folio). Total credits: 20</li><li><b>Painting and Printmaking Course:</b> Alternatively, students can complete two sets of internal standards, in the fields of painting and printmaking. Total credits: 16</li></ul>							
	Assessments Offered							
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91311	Use drawing methods to apply knowledge of conventions appropriate to <b>painting</b>	2	I	4				
AS91313	Use drawing methods to apply knowledge of conventions appropriate to <b>printmaking</b>	2	I	4				
AS91316	Develop ideas in a related series of drawings appropriate to established <b>painting</b> practice	2	I	4				
AS91318	Develop ideas in a related series of drawings appropriate to established <b>printmaking</b> practice	2	I	4				
AS91321	Produce a systematic body of work that shows understanding of art making conventions and ideas within <b>painting</b>	2	E	12				
AS91323	Produce a systematic body of work that shows understanding of art making conventions and ideas within <b>printmaking</b>	2	E	12				
Total number of credits available								20/16
Prerequisites	Completion of Level 1 Art or acceptance from the LAL.							
Other Details	Material Costs		Art Pack (depending on student’s existing Art equipment)					
	Expected Trips		One day field trip.					
Where could this lead?	NCEA Level 3 Visual Arts: Painting and/or Printmaking, Tertiary education and a career in the Creative Industries. Life Skills: Creativity, problem solving strategies, work habits and presentation skills.							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
						20/16		
See Ms Strathern								

Level	3	Course Name: Visual Art (13ART)	UE Approved Subject					Yes
Course Overview	The Year 13 Art course is designed to build upon and develop each student’s theoretical and practical knowledge of established practice.							
	<ul style="list-style-type: none"><li>• <b>Painting Course:</b> The internal assessments AS91446 (3.2) and AS91451 (3.3) are integrated to create a body of work from which students can develop their own ideas and interests to produce the externally assessed part of the course AS91456 (3.4 painting folio). Total credits: 22</li><li>• <b>Printmaking Course:</b> Students may specialise in printmaking, creating AS91448 (3.2) and AS91453 (3.3), followed by the externally assessed AS91458 (3.4 printmaking folio). Total credits: 22</li><li>• <b>Painting and Printmaking Course:</b> Alternatively, students can complete two sets of internal standards, in the fields of painting and printmaking. Total credits: 16</li></ul>							
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91446	Use drawing to demonstrate understanding of conventions appropriate to <b>painting</b>	3	I	4				
AS91448	Use drawing to demonstrate understanding of conventions appropriate to <b>printmaking</b>	3	I	4				
AS91451	Systematically clarify ideas using drawing informed by established <b>painting</b> practice	3	I	4				
AS91453	Systematically clarify ideas using drawing informed by established <b>printmaking</b> practice	3	I	4				
AS91456	Produce a systematic body of work that integrates conventions and regenerates ideas within <b>painting</b> practice	3	E	14				
AS91458	Produce a systematic body of work that integrates conventions and regenerates ideas within <b>printmaking</b> practice	3	E	14				
Total number of credits available								22/16
Prerequisites	16 credits at Level 2 Art or acceptance from LAL.							
Other Details	Material Costs	Art Pack (depending on student’s existing Art equipment)						
	Expected Trips	One day field trip.						
Where could this lead?	Entry to tertiary Art providers and employment opportunities. Art encourages strong work habits, lateral thinking and conceptual skills.							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
						22/16		
See Ms Strathern								

Level	2	Course Name: Biology (12BIO)						
Course Overview		Knowledge of Biology – the study of living organisms and their interactions - provides a basis for understanding of the natural environment. Year 12 Biology will develop an understanding of biological concepts to provide a good platform for further studies in Biology and related subjects. Students who have an interest in the natural world will find this course challenging and will gain the required practical skills.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91153	Carry out a practical investigation in a biology context	2	I	4	Yes			
AS91155	Demonstrate understanding of adaptation of plants or animals to their way of life	2	I	3		Yes		
AS91156	Demonstrate understanding of life processes at the cellular level	2	E	4		Yes		
AS91157	Demonstrate understanding of genetic variation and change	2	E	4		Yes		
AS91158	Investigate a pattern in an ecological community	2	I	4		Yes		
Total number of credits available								19
Prerequisites		A suitable Year 11 Science programme, preferably a pass in an external Science standard.						
Other Details		Material Costs	Highly advised – Course manual (\$20)					
		Expected Trips	Field trip to Otumoetai approximately \$20					
Where could this lead?		Year 12 Biology is useful and often essential for students intending to follow careers in biological, ecological, medical, veterinary or sport sciences.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		0	4	19	7	15	0	
See Mrs Dawson or Mrs Joubert								

Level	3	Course Name: Biology (13BIO)				UE Approved Subject		Yes	
Course Overview		This course includes both practical and theory aspects. It is designed to produce students with a strong background in Biology who could successfully continue tertiary studies in biologically-related courses or into related employment. Biology is a dynamic subject that allows young adults to perceive and explain their world from a biological perspective.							
Assessments Offered									
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing	
AS91601	Carry out a practical investigation in a biological context, with guidance	3	I	4					
AS91603	Demonstrate understanding of the responses of plants and animals to their external environment.	3	E	5			Yes	Yes	
AS91605	Demonstrate understanding of evolutionary processes leading to speciation	3	E	4			Yes	Yes	
AS91606	Demonstrate understanding of trends in human evolution.	3	E	4			Yes	Yes	
AS91607	Demonstrate understanding of human manipulations of genetic transfer and its biological implications.	3	I	3			Yes		
AS91604	Demonstrate understanding of how an animal maintains a stable internal environment	3	I	3			Yes		
Total number of credits available								23	
Prerequisites		Year 12 Biology							
Other Details		Material Costs		Highly Advised. Write-On Notes \$20					
		Expected Trips		Field trip to Tongariro (\$90 Approx) University Open Day (\$10) Behavioural Field trip (\$20 approx)					
Where could this lead?		Year 13 Biology is useful and often essential, for students intending to follow careers in biological, ecological, medical, veterinary or sport sciences.							
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
			11	23		14			
See Mr Symon									

Level	2	Course Name: Chemistry (12CHE)						
Course Overview		This is an academic course intended for those going on to tertiary education. The course has a significant practical component along with relevant theory. Chemistry is an introduction to the fascinating world that exists around us. We will be looking at the chemistry of organic molecules, how atoms bond, what is pH and how does it relate to me.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91161	Carry out quantitative analysis	2	I	4				
AS91167	Demonstrate understand of oxidation and reduction	2	I	3				Yes
AS91163	Demonstrate understanding of the chemistry used in the development of a current technology, (Optional TBD)	2	I	3				
AS91164	Demonstrate understanding of bonding, structure, properties and energy changes	2	E	5				
AS91165	Demonstrate understanding of the properties of selected organic compounds	2	E	4				
AS91166	Demonstrate understanding of chemical reactivity	2	E	4				
Total number of credits available								23
Prerequisites	Successful completion of a suitable Year 11 program or on application to LAL.							
Other Details	Material Costs	Highly advised. Workbook \$20						
	Expected Trips							
Where could this lead?	Year 12 Chemistry is useful, and often essential, for students intending to follow careers in many fields including Chemistry, Medicine, Veterinary Science and Engineering.							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
	23	23	23	11	23	19		
See Mr McNamara								

Level	3	Course Name: Chemistry (13CHE)				UE Approved Subject		Yes
Course Overview		This is an academic course intended for those going on to tertiary education. The course has a significant practical component along with relevant theory. Year 13 Chemistry picks up where Year 12 finished, taking you more in-depth into the world of Chemistry, looking at a greater range of molecules, while still building on the learning of previous years.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91388	Demonstrate understanding of spectroscopic data in chemistry.	3	I	3				
AS91389	Demonstrate understanding of chemical processes in the world around us	3	I	3				Yes
AS91390	Demonstrate understanding of thermochemical principles and the properties of particles and substances.	3	E	5				
AS91391	Demonstrate understanding of the properties of organic compounds.	3	E	5				
AS91392	Demonstrate understanding of equilibrium principles in aqueous systems.	3	E	5				
AS91393	Demonstrate understanding of oxidation–reduction processes	3	I	3				
Total number of credits available								24
Prerequisites		Successful completion of Level 2 Chemistry						
Other Details		Material Costs	Highly advised. Workbook \$20					
		Expected Trips	University Open Day (\$10)					
Where could this lead?		Year 13 Chemistry is useful, and often essential, for students intending to follow careers in many fields including Chemistry, Medicine, Veterinary Science and Engineering.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		24	24	24	5	24	0	
See Mr McNamara								



Level	3	Course Name Classical Studies (13CLS)			UE Approved Subject			Yes
Course Overview		Classical Studies is the study of the civilisation of the classical world of Ancient Greece and Ancient Rome, and how those civilisations have influenced our modern world. The subject is multi-disciplinary and covers history, art history, philosophy, mythology, drama and politics. Three topics will be taught: Alexander the Great, Art of the Roman Empire and Aristophanes Comedies.						
Assessments Offered								
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
91394	Analyse ideas and values of the classical world	3	Ext	4	No	Yes	Yes	Yes
91395	Analyse the significance of a work(s) of art in the classical world	3	Ext	4	No	Yes	Yes	Yes
91396	Analyse the impact of a significant historical figure on the classical world	3	Ext	6	No	Yes	Yes	Yes
91397	Demonstrate understanding of significant ideologies in the classical world	3	Int	6	No	Yes	Yes	No
91398	Demonstrate understanding of the lasting influences of the classical world on other cultures across time	3	Int	6	No	Yes	Yes	No
Total number of credits available								26
Prerequisites	No specific subject prerequisites however a good standard of literacy is required as assessment is essay based involving analysis of historical texts.							
Other Details	Material Costs		Nil					
	Expected Trips		Nil					
Where could this lead?	Classics can lead to any career where generic thinking and communication skills are in demand. Possible careers are teaching, administration, foreign affairs, trade and industry, social welfare, tourism, law, librarian, museums and art galleries, publishing, broadcasting and media, journalism and the theatre.							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
	0	0	0	0	0	26		
See Mrs Thomas								

<b>Level</b>	<b>2</b>	<b>Course Name:</b> <b>Digital Technologies Business (12DTB)</b>						
<b>Course Overview</b>		Year 12 Digital Technologies Business (DTB) focuses on using MS Office software. The course provides the opportunity for Level 2 students to acquire skills of speed, accuracy, presentation and media design that will be of benefit to them in tertiary study, employment and as a life skill. File management and safe working practices are a significant part of the course.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
US111 V8	Use a word processor to produce documents for a business or organisation.	2	Int	5				
US107 V7	Apply text processing skills to produce communications in a business or organisational context.	2	Int	5				
US2784 V7	Create and use a computer spreadsheet to solve a problem.	2	Int	3				
US12884 V7	Create electronic documents and manage a file for generic text and information management.	2	Int	3				
US12885 V7	Create and enhance electronic documents combining text and images for generic text and information management.	2	Int	4				
AS91354 V3	Undertake Brief development to address an issue.	2	Int	4				
<b>Total number of credits available</b>								<b>24</b>
<b>Prerequisites</b>		Successful completion of Year 11 Digital Technologies Business course is desirable.						
<b>Other Details</b>		<i>Material Costs</i>	Stationery \$4 (folders for printed work); USB for backup \$10					
<b>Where could this lead?</b>		Level 3 DTB course; Polytech study; office employment; and life skills.						
<b>Vocational Pathways</b>		<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>	<b>Creative Industries</b>	
		<b>7</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>20</b>	<b>7</b>	
<b>See Mr Watson</b>								

<b>Level</b>	<b>3</b>	<b>Course Name:</b> <b>Digital Technologies Business (13DTB)</b>				<b>UE</b> <b>Approved</b> <b>Subject</b>		<b>No</b>	
<b>Course Overview</b>		Year 13 Digital Technologies Business (DTB) provides the opportunity for Level 3 students to acquire skills of speed, accuracy, presentation and media design using the MS Office range of software. File management and safe working practices are a significant part of the course.							
<b>Assessments Offered</b>									
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>	
US108 V7c	Apply text processing skills to produce business documents	3	Int	5					
US112 V7	Produce business or organisational information using word processing functions.	3	Int	5					
US2785	Create a computer spreadsheet to provide a solution for organisation use.	3	Int	5					
US2787	Create and use a computer database to provide a solution for organisation use.	3	Int	6					
US2789	Produce desktop published documents for organisation use.	3	Int	6					
US12886 V7b	Customise software features and create document templates for generic text and information management.	3	Int	6					
US12887 V7b	Integrate text and images and manage multiple files for generic text and information management.	3	Int	6					
<b>Total number of credits available</b>									<b>39</b>
<b>Prerequisites</b>		Completion of a Year 11 or 12 digital technologies business course is desirable.							
<b>Other Details</b>		<i>Material Costs</i>	Stationery \$4 (folders for printed work); USB for backup \$10.						
<b>Where could this lead?</b>		Polytech study: office employment; and life skills.							
<b>Vocational Pathways</b>		<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>		<b>Creative Industries</b>	
<b>See Mr Watson</b>									

Level	2	Course Name: Digital Technologies Computer Science (12DTS)						
Course Overview		This course has a primary focus on Computer Programming and Computer Science. This will be an Achievement Standards course allowing some variation in the course to meet the needs of individual students. This course contains planning, designing, creating, and critical evaluation in a computer programming context. This course offers students the skills to be initiators of change and development in the world of tomorrow.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS 91373	Construct an advanced computer program for a specified task	2	I	3				
AS 91372	Construct a plan for an advanced computer program for a specified task	2	I	3				
AS 91377	Demonstrate understanding of local area network technologies	2	I	3		Yes		
AS 91369	Demonstrate understanding of advanced concepts of digital media (website)	2	I	4		Yes		
AS 91371	Demonstrate understanding of advanced concepts of computer science	2	E	4		Yes		
Other AS are available								
Total number of credits available								17
Prerequisites		Successful completion of 11DTS or through consultation with the LAL Digital Technologies - Ms Meredith						
Other Details		Material Costs	USB and a folder for their work					
		Expected Trips	None at time of writing					
Where could this lead?		The course offers a pathway to continue with DTS in Level 3.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		0	17	0	4	0	17	
See Mr Watson								

<b>Level</b>	<b>3</b>	<b>Course Name:</b> <b>Digital Technologies Computer Science (13DTS)</b>				<b>UE Approved Subject</b>		<b>Yes</b>
<b>Course Overview</b>		Year 13 Digital Technologies Computer Science course offers Achievement Standards as well as unit standards where necessary allowing students a choice of Standards. While the focus is on programming and computer science there is ample scope for design and creativity as well as extending students who enjoy a challenge. This course develops the skills needed to go on to University, Polytechnic, or employment and to be initiators of change and development in the world of tomorrow.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS91610	Develop a conceptual Design considering fitness for purpose in the broadest sense	3	I	6			Yes	Yes
AS91637	Develop a complex computer programme for a specified task	3	I	6	Yes	Yes		
AS 91611	Develop a prototype considering fitness for purpose in the broadest sense	3	I	6			Yes	Yes
AS91636	Demonstrate understanding of areas of computer science	3	E	4		Yes	Yes (or)	Yes (or)
AS91635	Implement complex procedures to produce a specified digital media outcome	3	E	4				
AS91641	Demonstrate understanding of Wide Area Network technologies	3		4	Yes		Yes	
<b>Total number of credits available</b>								<b>30</b>
<b>Prerequisites</b>		Must have Year 12 DTS or approval from LAL						
<b>Other Details</b>		Material Costs	USB and a Folder to keep their work in for the year.					
		Expected Trips	NIL					
<b>Where could this lead?</b>		The course offers a pathway to University, or employment						
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		12	26	12	4	0	22	
<b>See Mr Watson</b>								

Level	2	Course Name: Drama (12DRM)						
Course Overview		This course covers practical and theoretical aspects of Theatre Performing Arts. Classic and contemporary texts are covered and assessment is performance-based. Attendance at a professional performance is compulsory as part of the course.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
91216	Use complex performance skills associated with a drama or theatre form or period.	2	Int	4		Yes	Yes	
91214	Devise and perform a drama to realise an intention	2	Int	5		Yes		
91213	Apply drama techniques in a scripted context	2	Int	4		Yes	Yes	
91218	Perform a substantial acting role in a scripted production	2	Int	5		Yes	Yes	
91215	Discuss a drama or theatre form or period with reference to a text. (Optional)	2	Ext	4		Yes		Yes
Total number of credits available								22
Prerequisites		An active interest in theatre and performance						
Other Details		Material Costs	\$1 pack of plastic sleeves, folder or book for written work					
		Expected Trips	TBA					
Where could this lead?		Any career that requires you to interact with others, theatre, screen and media, tourism, hospitality, teaching.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
							22	
See Ms Keenan								

<b>Level</b>	<b>3</b>	<b>Course Name: Drama (13DRM)</b>				<b>UE Approved Subject</b>		<b>Yes</b>
<b>Course Overview</b>		This course covers the theoretical and practical components of Theatre Performing Arts. Classic and contemporary texts are studied, and assessments is performance-based.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
91512	Interpret scripted text to integrate drama techniques in performance	3	Int	4		Y	Y	
91513	Devise and perform a drama to realise a concept	3	Int	5		Y		
91519	Script a drama suitable for live performance	3	Int	5		Y	Y	
91517	Perform a substantial acting role in a significant production	3	Int	5		Y	Y	
91515	Select and use complex skills associated with a drama form or period.	3	Ext	4		Y	Y	
91514	Select and use complex performance skills associated with a drama form or period	3	Ext	4		Y	Y	Y
<b>Total number of credits available</b>								<b>22</b>
<b>Prerequisites</b>		An active interest in Performing Arts.						
<b>Other Details</b>		Material Costs	\$1 Pack of plastic sleeves, a folder or book for written work					
		Expected Trips	TBA					
<b>Where could this lead?</b>		Theatre/film, media, teaching, hospitality, tourism, any career that deals with interacting with others.						
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
					4		22	
See Ms Keenan								

Level	2	Course Name: Economics (12ECO)						
Course Overview		The course is divided into five sections: <ul style="list-style-type: none"><li>• Basic terms and concepts</li><li>• Inflation</li><li>• Trade</li><li>• Growth</li><li>• Employment.</li></ul> The course also covers economic concepts basic to the subject. It provides a useful basis for further study at Year 13.						
Assessments Offered								
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91224	Analyse economic growth using economic concepts and models.	2	E	4		Yes		Yes
AS91225	Analyse unemployment using economic concepts and models.	2	I	4		Yes		
AS91227	Analyse how Government policies and contemporary economic issues interact.	2	I	6		Yes	Yes	
AS91228	Analyse a contemporary economic issue of special interest using economic concepts and models;	2	I	4		Yes	Yes	
Total number of credits available								18
Prerequisites		A background in Economics would be helpful.						
Other Details		Material Costs	Workbook \$35					
		Expected Trips	A visit to a business may be made during the year.					
Where could this lead?		Business Management studies at tertiary level; employment in business administration.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
				4	18	6	18	
See Mr Cochran								



Level	3	Course Name: Economics (13ECO)				UE Approved Subject		Yes	
Course Overview		The aim of the course is to enable students to develop a continuing interest in contemporary economic issues through a detailed study of the role of the market and business in the economy and how the role may be altered by Government. On completion of the course students should be able to understand basic economic concepts and be able to apply them to current economic issues. They should also be aware of the inter-relationships between economic, social and political events. Standards will be chosen from the following:							
Assessments Offered									
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing	
AS91399	Demonstrate understanding of the efficiency of market equilibrium.	3	E	4			Yes	Yes	
AS91400	Demonstrate understanding of the efficiency of different market structures using marginal analysis.	3	E	4			Yes	Yes	
AS91401	Demonstrate understanding of micro-economic concepts.	3	I	5			Yes	No	
AS91402	Demonstrate understanding of government interventions to correct market failures.	3	I	5			Yes	No	
AS91403	Demonstrate understanding of macro-economic influences on the New Zealand economy.	3	E	6			Yes	Yes	
Total number of credits available								24	
Prerequisites		This course does not require any previous study of Economics. However, Year 11 or Year 12 Economics helps provide background for students, and an interest in understanding the way in which the New Zealand economy works is helpful.							
Other Details		Material Costs		Workbook \$25 approximately.					
		Expected Trips		Nil					
Where could this lead?		Business Management studies at tertiary level; employment in business administration.							
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
				15	19				
See Mr Cochran									

Level	2	Course Name: ELECTRONICS TECHNOLOGY / ENGINEERING (12ELE)											
Course Overview	With our <b>Project Based Learning</b> approach, students will gain valuable experience and skills while:												
	1. 3D printing parts while working on various projects.												
	2. Manage componentry to get a better understanding of how things work together within circuits.												
	3. Design and etch your own printed circuit boards for 2 major projects												
	4. Using a lightbox to print circuit diagrams.												
	5. Looking deeper into systems and the behaviour of common componentry within.												
	6. Use Basic and Blockly as Coding Language to develop next level programming skills, as well as the opportunity to apply these to various projects.												
	7. Lots of soldering, etching and using SketchUp and Tinkercad to design 3D models.												
8. Last but not least, having fun while you learn.													
A combination of assessments offered for both US and AS courses										L2			
US Number	Title					L	Int/E xt	Cr	N	L	R	W	
18239	Demonstrate introductory knowledge of circuit concepts and measurements for electronics					2	Int	5					
18240	Demonstrate knowledge of basic electronic components.					2	Int	5					
18241	Demonstrate knowledge of basic electronic systems					2	Int	5					
18242	Construct a simple circuit board					2	Int	3					
18243	Construct a simple electronic product from a supplied circuit schematic					2	Int	6					
AS 91360	Demonstrate understanding of redundancy and reliability in technological systems					2	Ext	4					
Possible number of US credits available								28					
AS 91614	Demonstrate understanding of operational parameters in complex and highly complex technological systems					3	Ext	4					
AS 91638	Demonstrate understanding of complex concepts used in the design and construction of electronics environments					3	Int	4					
AS 91639	Implement complex interfacing procedures in a specified electronic environment					3	Int	4					
AS 91360	Demonstrate understanding of redundancy and reliability in technological systems					3	Int	4					
Possible number of AS credits available								16					
A possibility to mix the US mentioned above with AS 2.47; 2.48 and 2.49. (9 credits) These will follow on from the 1.47; 1.48 and 1.49 you did in L1.													
Prerequisites	Satisfactory achievement in Year 11 Electronics as well as a strong Mathematical background. This course is a prerequisite for NCEA Level 3 and Year 13 NCET (Electronics)												
Other Details	Material Costs		Course costs: \$50. (This covers basic materials costs, plus students purchase their own low voltage projects if required)										
	Expected Trips		Gallagher Hamilton										
Where could this lead?	1	L3 National Certificate in Electronics											
	2	Teacher / Electrician / Programmer											
	3	Telecommunication / Security systems Technician											
	4	Electronics Engineer / Electronics Technician											
	5	Industrial measurement and Control Technician											
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries							
	4	28				28							
See Mr van der Westhuizen													

Level	3	Course Name: ELECTRONICS TECHNOLOGY (13ELE)				UE Approved Subject		Yes		
Course Overview	With our <b>Project Based Learning</b> approach, students will gain valuable experience and skills while:									
	1. 3D printing your main project.									
	2. Manage componentry to activate sensors to successfully control variables of a greenhouse.									
	3. Use Basic, Blockly and Python as a coding language to develop next level programming skills, and the opportunity to apply these to various projects.									
	4. Lots of soldering, etching and using Sketchup and Tinkercad to design 3D models.									
	5. Looking deeper into systems and the behaviour of common componentry within.									
	6. Last but not least, having fun while you learn.									
A combination of assessments offered for both US and AS courses						L3		UE Lit		
US Number	Title			L	Int/Ext	Credits	N	L	R	W
26119	Construct and report on the performance of a simple electronic programmable circuit			3	Int	4				
26120	Describe and construct circuits to demonstrate the operation and properties of electronic devices.			3	Int	3				
26121	Plan, construct, modify and report on an electronic prototype.			3	Int	6				
26122	Demonstrate knowledge of, and build circuits using digital electronic devices that interface with ADC and DAC functions.			3	Int	3				
26123	Demonstrate knowledge of the practical applications of logic circuits			3	Int	3				
9221	Demonstrate knowledge of the development of an electronic product.			3	Int	3				
Possible number of US credits available						22				
AS 91614	Demonstrate understanding of operational parameters in complex and highly complex technological systems			3	Ext	4				
AS 91638	Demonstrate understanding of complex concepts used in the design and construction of electronics environments			3	Int	4				
AS 91639	Implement complex interfacing procedures in a specified electronic environment			3	Int	4				
AS 91640	Implement complex techniques in constructing a specified complex electronic and embedded system.			3	Int	4				
Possible number of AS credits available						16				
Prerequisites		Satisfactory achievement in Year 12 Electronics course or acceptable achievement in the L1 Achievement Standard course. A strong Mathematical and Physics background is needed.								
Other Details		Material Costs		Course costs: \$50.						
		Expected Trips		Gallagher Hamilton						
Where could this lead?		1	Industrial Measurement and Control Technician							
		2	Electrician/Programmer							
		3	Telecommunication / Security Systems Technician							
		4	Electronics Engineer / Electronics Technician							
		5	Teacher							
Vocational Pathways		Construction & Infrastructur e	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service		Creative Industries		
		4	4							
See Mr van der Westhuizen										

Level	2	Course Name: English (12ENG)							
Course Overview		An advanced English course that develops and extends a student's ability to analyse and write about literature and a visual or oral text. The skills of crafted and controlled writing are an important part of course work, and a range of literary texts are studied during the year. Students also complete an independent reading AS and an oral language standard. Students are not required to complete every AS and are given a choice about the AS they enter. Those marked with * are a compulsory part of the course. Students are encouraged to become independent thinkers and to develop effective writing and oral language skills which are important for later study.							
Assessments Offered									
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing	
AS91098	Analyse specified aspect(s) of studied written text(s), supported by evidence	2	Ex	4		Yes	Yes	Yes	
AS91099	Analyse specified aspect(s) of studied visual or oral text(s), supported by evidence	2	Ex	4		Yes		Yes	
AS91101*	Produce a selection of crafted and controlled writing	2	Int	6		Yes		Yes	
AS91102	Construct and deliver a crafted and controlled oral text (opt)	2	Int	3					
AS91104	Analyse significant connections across texts, supported by evidence (opt)	2	Int	4		Yes	Yes	Yes	
AS91106*	Form developed personal responses to independently read texts, supported by evidence	2	Int	4		Yes	Yes	Yes	
AS 91107*	Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence.	2	Int	3				Yes	
Possible number of credits available								17-25	
Prerequisites	It is preferred that students will have gained 15 or more credits at Level 1.								
Other Details	Material Costs	None							
	Expected Trips	No trips							
Where could this lead?	Year 13 English, tertiary courses that require or recommend English as part of degree or course pre-requisites.								
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries			
See Mrs Fitzgerald									

Level	3	Course Name: Year 13 English (13ENG)			UE Approved Subject		Yes	
Course Overview		This course develops and extends your ability to understand, critically respond to and write about literature and film. The skills of fluent and coherent writing form an important part of your course which includes a portfolio of your writing. Students develop the skills of critical thinking and literary analysis, which are important skills for further study and career development. The course is developed to suit individual student strengths and abilities. You can develop your creative writing skills, make a short film, or deliver an oral presentation. You can gain up to 19 credits through internal assessment. Students planning to attend university in 2018 should also include external Achievement Standards as part of their course assessment. Students are encouraged to become independent thinkers and learners, and to develop essential life-long skills as effective writers and speakers.						
Assessments Offered								
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91472	Respond critically to specified aspects(s) of studied written text(s), supported by evidence	3	Ex	4		Yes	Yes	Yes
AS91473	Respond critically specified aspect(s) of studied visual or oral text(s), supported by evidence	3	Ex	4		Yes	No	Yes
AS91474	Respond critically to significant aspects of unfamiliar written texts through close reading, supported by evidence	3	Ex	4		Yes	Yes	Yes
AS91475	Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas	3	Int	6		Yes	No	Yes
AS91476 (optional)	Create and develop a fluent and coherent oral text which develops, sustains, and structures ideas	3	Int	3		Yes	No	No
AS91477 (optional)	Create a fluent and coherent visual text which develops, sustains and structures ideas using verbal and visual language	3	Int	3		Yes	No	No
AS91478	Respond critically to significant connections across texts, supported by evidence	3	Int	4		Yes	No	No
AS91480	Respond critically to significant aspects of visual and/or oral texts(s) through close reading, supported by evidence	3	Int	3		Yes	No	No
Possible number of credits available								28
Prerequisites		Students should have achieved at least 14 English credits at Level 2.						
Other Details		Material Costs	None					
		Expected Trips	None					
Where could this lead?		University, study at other tertiary institutions and a wide range of careers in which a high standard of spoken and written English language is required.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		28	19	26	28	28	19	
See Mrs Fitzgerald								

Level	2	Course Name: English - Developing Literacy Skills (12DLS)						
Course Overview		<p>This multi-level course aims to strengthen the literacy skills and abilities of students who wish to develop their written, oral and visual language skills for employment or further vocational training. There is a strong emphasis on developing independent reading skills and developing accuracy and confidence in writing. The reading and study of a work of literature will be a requirement and may also be used in the independent reading standard.</p> <p>For those students who have not yet achieved the Level 1 Literacy requirements, the course offers opportunities for this to be completed. The combination of Level 1 and 2 achievement standards allows those students who have achieved some credits at Level 1 to continue to Level 2. All Achievement Standards are internally assessed.</p>						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS90052	Produce creative writing	1	Int	3		Yes		
AS90053	Produce formal writing	1	Int	3		Yes		
AS91101	Produce a selection of crafted and controlled writing	2	Int	6		Yes		Yes
AS90857	Construct and deliver an oral text	1	Int	3		Yes		
AS91102	Construct and deliver a crafted and controlled oral text	2	Int	3		Yes		
AS90855	Create a visual text	1	Int	3		Yes		
AS91103	Create a crafted and controlled visual and verbal text	2	Int	3		Yes		
AS90854	Form personal responses to independently read texts, supported by evidence	1	Int	4		Yes		
AS91106	Form developed personal responses to independently read texts, supported by evidence	2	Int	4		Yes	Yes	
AS90856	Show understanding of visual and/or oral text(s) through close viewing and/or listening, using supporting evidence	1	Int	3		Yes		
AS91107	Analyse aspects of visual and/or oral text(s)	2	Int	3		Yes		
Possible number of credits available							Level 1 - 19 Level 2 - 19	
Prerequisites	It is preferred that students have 10 Level 1 English credits.							
Other Details	Material Costs	None						
	Expected Trips	No trips						
Where could this lead?	Level 3 English for students who gain 12-15 Level 2 credits and courses in all vocational pathways for students leaving school.							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
	L1 19	L1 19	L1 19	L1 19	L1 19	L1 19		
	L2 16	L2 10	L2 16	L2 16	L2 16	L2 19		
See your English teacher								

Level	2/3	Course Name: Gateway (12GAT / 13GAT)			UE Approved Subject			No
Course Overview		Gateway offers students a chance to study and work towards a career in an industry of their choice. Students will complete an 80 hour work placement at a local employer during Term 2 or 3, and will also complete industry based Vocational Pathway standards in this industry area, aiming to gain a minimum of 20 credits.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
497	Demonstrate knowledge of workplace health and safety requirements	1	Int	3	No	No	No	No
4252	Produce a targeted personal CV	2	int	2	No	No	No	No
4251	Plan a career pathway	3	int	2	No	No	No	No
4253	Obtain job search skills	2	int	3	No	No	No	No
17593	Apply safe work practices in the workplace	2	int	4	No	No	No	No
17602	Apply hazard identification and risk procedures in the workplace	3	int	4	No	No	No	No
19522	Undertake a job safety analysis	2	int	3	No	No	No	No
Total number of credits available								20+
Prerequisites		A strong idea of what career industry area the student is interested in. Students need to apply for Gateway and will be interviewed before being accepted.						
Other Details		Material Costs		Nil – all things are provided				
		Expected Trips		Work placements in the local area – one day/week Term 2 or 3				
Where could this lead?		An apprenticeship or pre-trade programme at a local tertiary institute in range of trades areas including hair and beauty, engineering, automotive, primary industries, building and construction, electrical, plumbing, early childhood education, health careers, sports and recreation, tourism and hospitality.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		20	20	20	20	20	20	
See Mrs Thomas								

Level	2	Course Name: Geography (12GEO)						
Course Overview		Level Two Geography explores both natural and cultural environments and how people interact with these. Geography examines contemporary issues around the world and encourages students to analyse different perspectives. Level Two builds on ideas from level one and develops students critical thinking skills about the world they live in. Students learn many geographic skills and apply these in hands on fieldwork during a three day fieldtrip to Napier.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
91240	Demonstrate geographic understanding of a large natural environment. <i>(Southern Alps)</i>	2	Ext	4		Yes		
91243	Apply geography concepts and skills to demonstrate understanding of a given environment.	2	Ext	4		Yes	Yes	Yes
91241	Demonstrate geographic understanding of an urban pattern. <i>(Crime in Chicago)</i>	2	Int	3		Yes		
91244	Conduct geographic research with guidance. <i>(Napier climate patterns)</i>	2	Int	5	Yes			
91246	Explain aspects of a geographic topic at a global scale. <i>(Endangered species)</i>	2	Int	3		Yes		
Total number of credits available								19
Prerequisites		Year 11 Geography is beneficial but not required.						
Other Details		Material Costs		As per stationery list				
		Expected Trips		3 day trip to Napier approx. \$160				
Where could this lead?		Year 13 Geography, life and employment skills.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service		Creative Industries
		7		11	19			9
See Ms Osborne								



Level	3	Course Name: Geography (13GEO)			UE Approved Subject		Yes	
Course Overview		Level Three Geography explores both natural and cultural environments and how people interact with these. Geography examines contemporary issues around the world and encourages students to analyse different perspectives and courses of action. Level Three builds on ideas from level Two and develops students critical thinking skills about the world, and how to plan for a sustainable future. Students consolidate their geographic skills and apply these in hands on fieldwork during a three night fieldtrip to the Tongariro Volcanic Centre.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
91426	Demonstrate geographic understanding of how interacting natural processes shape a New Zealand geographic environment (Tongariro Volcanic Centre)	3	Ext	4			Yes	Yes
91429	Demonstrate understanding of a given environment through selection and application of geographic concepts and skills	3	Ext	4			Yes	Yes
91428	Analyse a significant contemporary event from a geographic perspective. (Rhythm and Vines)	3	Int	3			Yes	
91430	Conduct geographic research with consultation. (Vegetation patterns on Mt Ruapehu)	3	Int	5			Yes	
91431	Analyse aspects of a contemporary geographic issue. (Human Trafficking)	3	Int	3			Yes	
91432	Analyse aspects of a geographic topic at a global scale. (Refugee Crisis)	3	Int	3			Yes	
Total number of credits available								19
Prerequisites		Year 12 Geography is beneficial but not required.						
Other Details		Material Costs	As per stationery list					
		Expected Trips	4 day trip to Tongariro approx. \$140					
Where could this lead?		University courses, Urban planning, Regional Council, Global development, Environmental science, Marketing and research, Event planning and management, Law and politics						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		4		11	22	3	6	
See Ms Osborne								

<b>Level</b>	<b>2</b>	<b>Course Name: History (12HIS)</b>						
<b>Course Overview</b>		<p>Year 12 History focuses on several key events in History which have shaped the modern world, especially in the twentieth century. In History, students will be able to consider how events in the past still affect our world today and gain skills around problem solving, forming arguments, considering different perspectives and critical thinking.</p> <p>Some of the topics covered include:</p> <ul style="list-style-type: none"> <li>• The 1972 Munich Olympics Massacre</li> <li>• Cuban Missile Crisis and/or the Cambodian Genocide</li> <li>• The 1931 Napier Earthquake</li> <li>• Assassinations</li> </ul> <p>Placing ourselves as New Zealanders in the context of world history clarifies our unique place in the world. Travel overseas is also enhanced by some background knowledge of significant places.</p> <p>Students will get the chance to experience History in a hands on way with a field trip to Napier during the year.</p>						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
91229	Carry out an inquiry of an historical event or place of significance to New Zealanders	2	Int	4		Yes	Yes	-
91230	Examine an historical event or place of significance to New Zealanders	2	Int	5		Yes	Yes	Yes
91232	Interpret different perspectives of an historical event of significance to New Zealanders	2	Int	5		Yes	Yes	
91233	Examine the causes and consequences of a significant historical event	2	Ext	5		Yes	Yes	Yes
<i>Total number of credits available</i>								<b>19</b>
<b>Prerequisites</b>		While Year 11 History provides a useful background, there are no prerequisites for Year 12 History.						
<b>Other Details</b>		Material Costs	n/a					
		Expected Trips	Napier: approximate cost is \$165					
<b>Where could this lead?</b>		Year 12 History provides a basis for the skills and concepts required for Year 13 History and Classical Studies.						
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		-	-	-	9	-	24	
<b>See Mr Jenkins or Miss Paton</b>								

<b>Level</b>	<b>3</b>	<b>Course Name: History (13HIS)</b>				<b>UE Approved Subject</b>		<b>Yes</b>
<b>Course Overview</b>		<p>The course will be split into three sections looking at two very different periods of history that were not covered in Years 11 and 12, along with an area of student choice. The first section will focus on the leadership of Elizabeth I in the later 1500s in the age of fierce battles and piracy. The second will look at an aspect of 19<sup>th</sup> Century New Zealand and History in our own backyard. The third section will focus on using evidence to unlock contested historical events based on conspiracy theories, myths and legends- Who shot JFK? Is Robin Hood real? Does Atlantis exist? Was Pearl Harbour a set up? The list goes on.</p> <p>In Level Three History, students will gain transferable skills around problem solving, critical thinking, considering different perspectives, using evidence and forming arguments.</p> <p>Students will have the chance to experience New Zealand history in a meaningful, hands on way with a field trip to the Bay of Islands at the end of Term One. This could amount to approximately \$180.</p>						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
91434	Research an historical event or place of significance to New Zealanders using primary and secondary sources	3	Int	5			Yes	
91435	Analyse an historical event or place of significance to New Zealanders	3	Int	5			Yes	-
91437	Analyse different perspectives of a contested event of significance to New Zealanders	3	Int	5			Yes	-
91438	Analyse the causes and consequences of a significant historical event	3	Ex	6			Yes	Yes
<i>Total number of credits available</i>								<b>21</b>
<b>Prerequisites</b>		Although Year 12 History provides a background, there are no prerequisites for Year 13 History.						
<b>Other Details</b>		Material Costs	n/a					
		Expected Trips	Bay of Islands: Approximate cost \$180					
<b>Where could this lead?</b>		Students taking Level Three History will gain valuable skills that will transfer to almost any career path. These skills include, but are not limited to forming arguments, considering different perspectives and critical thinking. Possible careers are teaching, law, foreign affairs, publishing, broadcasting, social welfare, archaeologist and politician, among others.						
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
				10	10		10	
<b>See Mr Jenkins or Miss Paton</b>								

Level	2	Course Name: Home Economics, Hospitality and Food Technology (12HEC)						
Course Overview		This course has a strong emphasis on taking action to improve health and well-being of individuals and society. Students will learn about sustainable health – enhancing change for individuals, communities and society. Practical food preparation is an important part of this course.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91299	Analyse issues related to the provision of food for people with specific food needs.	2	Int	5		Yes		
AS91302	Evaluate sustainable food related practices.	2	Int	5		Yes		
AS91351	Implement advanced procedures to process a specified product.	2	Int	4				
AS91304	Evaluate health promoting strategies designed to address a nutritional need.	2	Ext	4		Yes		Yes
US167	Practise food safety methods in a food business.	2	Int	4				
US17285	Demonstrate knowledge of commercial espresso coffee equipment and prepare espresso beverages under supervision.	2	Int	4				
US17286	Prepare and present pressed coffee for service.	2	Int	2				
US17287	Prepare and present filtered coffee for service.	2	Int	2				
Possible number of credits available								30
Prerequisites		Completion of a junior Food Technology programme is desirable.						
Other Details		Material Costs	\$90					
		Expected Trips	Nil					
Where could this lead?		Level 3 Home Economics and Food Technology; Polytechnic study, Hospitality employment; and life skills.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
			4	5	30	10		
See Mrs Gwengo								

<b>Level</b>	<b>3</b>	<b>Course Name: Home Economics and Food Technology (13HEC)</b>					<b>UE Approved Subject</b>	<b>Yes</b>
<b>Course Overview</b>		Students will evaluate current issues and theories of nutrition, identify and reflect on the factors that influence people's choices and behaviours. They will analyse attitudes and values that influence their own and society's well-being. Practical food preparation is an important part of this course.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS91466	Investigate a nutritional issue affecting the well-being of New Zealand society.	3	Int	5				Yes
AS91643	Implement complex procedures to process a specified product.	3	Int	6				
AS91609	Undertake project management to support technological practice.	3	Int	4				
AS91611	Develop a prototype considering fitness of purpose in the broadest sense.	3	Int	6				
AS91471	Analyse the influences of food advertising on well-being.	3	Ext	4				Yes
US17284	Demonstrate knowledge of coffee origin and production.	3	Int	3				
US17288	Prepare and present espresso beverages for service.	3	Int	5				
<i>Possible number of credits available</i>								25 AS 8 US
<b>Prerequisites</b>		Completion of junior Food Technology course is desirable.						
<b>Other Details</b>		Material Costs	\$90.00					
		Expected Trips	Nil					
<b>Where could this lead?</b>		University study – Dietetics, Food Science, Applied Consumer Science, Health Promotion, Nutrition Education; Polytech study – chef, sous chef, kitchen hand; employment in the hospitality industry; life skills.						
<b>Vocational Pathways</b>		<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>	<b>Creative Industries</b>	
		10	16	19	11	25	10	
<b>See Mrs Gwengo</b>								

Level	2	Course Name: Japanese (12JAP)						
Course Overview		The aim of this course is to continue to develop the communication skills of reading, writing, speaking and listening and to learn more of Japanese life and culture.  There is a scholarship opportunity to go to Japan for a successful applicant.  <b>Topics:</b> Food culture, recreation, relationships and school system.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91133	Listening	2	Ex	4				
AS91135	Speech	2	Int	5				
AS91134	Conversation	2	Int	5				
AS91136	Reading	2	Ex	5				
AS91137	Writing	2	Int	5				
Total number of credits available								24
Prerequisites		Level 1 Japanese is an advantage, but not essential. Those choosing to pick up the subject for the first time at Level 2 will need to get the Learning Area Leader (LAL) approval.						
Other Details		Material Costs	\$0					
		Expected Trips	Less than \$20 including lunch and transport					
Where could this lead?		Language-learning keeps career options open, and develops important communication skills.  These are useful in the education sector and tourism, animation and manga, movie, food industry settings. Also in the areas of management, journalism, marketing, latest technology.  It broadens students' horizons through understanding another language and culture and helps them to understand their own in more depth.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
					20	5	15	
See Mrs Sasanuma								

[illegible]

Level	2	Course Name: Mathematics 1 (12MAC)						
Course Overview		This course is intended for mathematically-able students who wish to pursue a career in either construction & infrastructure, manufacturing & technology or creative industries. Assessment for this course is by Achievement standards. There are 3 internally and 2 externally assessed standards. Students may only enter this course from Year 11MA1 or 11MA2 course and must have passed some external Level 1 standards, including Algebra.						
Assessments Offered								
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91256	Apply coordinate geometry methods in solving problem	2	Int	2	Yes			
AS91257	Apply graphical methods in solving problems	2	Int	4	Yes			
AS91259	Apply Trigonometric methods in solving problems	2	Int	3	Yes			
AS91261	Apply algebraic methods in solving problems	2	Ext	4	Yes			
AS91262	Apply Calculus methods in solving problems	2	Ext	5	Yes			
Total number of credits available								18
Prerequisites		At least 14 credits at NCEA Level 1 from achievement standards including Algebra. At least two of the standards should have a grade higher than Achieved or else LAL’s approval is needed.						
Other Details		Material Costs	Workbooks \$25, Graphics calculator \$95					
		Expected Trips	None					
Where could this lead?		This will lead to Level 3 Mathematics with Calculus or Level 3 Mathematics with Statistics.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		18	18	13	6	0	9	
See Mr Prasad or Ms Moxey								



Level	2	Course Name: Mathematics 2 (12MAS)						
Course Overview		This course is intended for students entering Year 12 and wishing to pursue a career in either social & community service, primary, creative or service industries. Students who complete this course and are willing to continue with Mathematics at NCEA Level 3 can do Mathematics with Statistics. Assessment for this course is by Achievement standards. There are 5 internally and 1 externally assessed standards.						
Assessments Offered								
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91258	Apply sequence and series in solving problems	2	Int	2	Yes			
AS91264	Use statistical methods to make an inference	2	Int	4	Yes	Yes		
AS91265	Conduct an experiment to investigate a situation using statistical methods	2	Int	3	Yes	Yes		
AS91267	Apply probability methods in solving problems	2	Ext	4	Yes	Yes		
AS91268	Investigate a situation involving elements of chance using a simulation	2	Int	2	Yes	Yes		
Total number of credits available								15
Prerequisites	At least 12 Achievement standard credits in NCEA Level 1 Mathematics.							
Other Details	Material Costs	Workbooks \$35, Graphics calculator \$95						
	Expected Trips	None						
Where could this lead?	Level 3 Mathematics with Statistics							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
	5	5	15	11	15	5		
See Mr Prasad or Ms Moxey								

Level	2	Course Name: Mathematics 3 (12MAT)						
Course Overview		This course is for those students who wish to extend their knowledge of Mathematics beyond NCEA Level 1. It is also aimed at those students who wish to pursue a career in either social & community service, primary, service or creative industries. Students may continue into a Level 3 Mathematics with Statistics course if they achieve at least 12 credits in this course. Assessment for this course is by 5 internally and 1 externally assessed standards.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91256	Apply Coordinate Geometry methods in solving problems	2	Int	2	Yes			
AS91260	Apply network methods in solving problems	2	Int	2	Yes			
AS91264	Use statistical methods to make an inference	2	Int	4	Yes	Yes		
AS91265	Conduct an experiment to investigate a situation using statistical methods	2	Int	3	Yes	Yes		
AS91267	Apply probability methods in solving problems	2	Ext	4	Yes	Yes		
AS91269	Apply systems of equations in solving problems	2	Int	2	Yes	Yes		
Total number of credits available								17
Prerequisites		At least 10 Achievement standard credits in Mathematics at NCEA level 1 and good self-management skills. Students who have not achieved at least 10 credits in Level 1 Mathematics should consider repeating a Level 1 course.						
Other Details		Material Costs	Workbooks \$42, scientific calculator \$21					
		Expected Trips	None					
Where could this lead?		Level 3 Mathematics with statistics if you pass this course with 13 or more credits.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		9	9	13	15	13	17	
See Mr Prasad or Ms Moxey								

<b>Level</b>	<b>3</b>	<b>Course Name: Mathematics with Calculus (13MAC)</b>				<b>UE Approved Subject</b>		<b>Yes</b>
<b>Course Overview</b>		This course is appropriate for students with a major interest in construction & infrastructure, manufacturing & technology and primary industries. This course will also enable students to undertake any course at a tertiary institution involving any of Mathematics, Physical Science, Engineering and Information Technology. Assessment in this course is by Achievement Standards. There are 2 internally and 3 externally assessed standards.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS91573	Apply geometry of conic sections in solving problems	3	Int	3				
AS91575	Apply trigonometric methods in solving problems	3	Int	4				
AS91577	Apply the algebra of complex numbers in solving problems	3	Ext	5				
AS91578	Apply differentiation methods in solving problems	3	Ext	6				
AS91579	Apply integration methods in solving problems	3	Ext	6				
<b>Total number of credits available</b>								<b>24</b>
<b>Prerequisites</b>	At least 16 credits at NCEA Level 2 Mathematics, including Algebra and Calculus.							
<b>Other Details</b>	Material Costs	Workbooks \$35, Graphics calculator \$95						
	Expected Trips	None						
<b>Where could this lead?</b>	Any tertiary institution.							
<b>Vocational Pathways</b>	<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>	<b>Creative Industries</b>		
	<b>17</b>	<b>15</b>	<b>14</b>	<b>0</b>	<b>8</b>	<b>3</b>		
<b>See Mrs Attygalle or Mr Prasad</b>								

<b>Level</b>	<b>3</b>	<b>Course Name:</b> <b>Mathematics with Statistics (12MAS)</b>					<b>UE Approved Subject</b>	<b>Yes</b>
<b>Course Overview</b>		<p>This course involves primarily the study of probability and statistics, but there are aspects of Algebra and computational skills as well. Much of the course involves the practical application of Mathematics. Calculators, computers and personal learning devices are used extensively.</p> <p>This course also requires the ability to research and write reports. Many questions require considerable interpretations, so a reasonable standard of English is required. Mathematics with Statistics is intended for students considering majoring in Mathematics at university, or for those interested in biological or social sciences, medicine, commerce and administration. It also leads to a career in primary industries.</p>						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS91580	Investigate time series data	3	Int	4				
AS91581	Investigate bivariate measurement data	3	Int	4				
AS91582	Use statistical methods to make a formal inference	3	Int	4				
AS91585	Apply Probability concepts in solving problems	3	Ext	4				
AS91586	Apply probability distributions in solving problems	3	Ext	4				
AS91587	Apply systems of equations in solving problems	3	Int	3				
<b>Total number of credits available</b>								<b>23</b>
<b>Prerequisites</b>	At least 12 Achievement standard credits at NCEA Level 2 Mathematics							
<b>Other Details</b>	Material Costs	Workbooks \$42, Graphics calculator \$95						
	Expected Trips	None						
<b>Where could this lead?</b>	Any tertiary institution							
<b>Vocational Pathways</b>	<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>		<b>Creative Industries</b>	
	<b>3</b>	<b>3</b>	<b>23</b>	<b>12</b>	<b>16</b>		<b>4</b>	
<b>See Ms Fogarty or Ms Moxey</b>								

Level	2	Course Name: Music (12MUS)						
Course Overview		Students will have an opportunity to compose, perform and study a wide range of music from classical to rock. This course is designed to lead students on to tertiary study, creative industry-based work or for the continued development and enjoyment of the discipline.  <b>Special requirements:</b> Students must be learning an instrument either through school or in the community. All students are expected to contribute to the co-curricular and extra-curricular musical activities at school and attend all rehearsals when these occur. Students should also aim to be involved in musical groups in the community.						
Assessments Offered								
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91270	Perform two substantial pieces of music as a featured soloist.	2	Int	6				
AS91274	Perform a substantial piece of music as a featured soloist on a second instrument.	2	Int	3				
AS91272	Demonstrate ensemble skills by performing a substantial piece of music as a member of a group	2	Int	4				
AS91271	Compose two substantial pieces of music.	2	Int	6				
AS91275	Demonstrate aural understanding through written representation.	2	Ex	4				
AS91276	Demonstrate knowledge of conventions in a range of scores.	2	Ex	4		Yes		
AS91273	Devise an instrumentation for an ensemble.	2	Int	4				
Possible number of credits available								31
Prerequisites		(a) Any student wishing to sit NCEA Level 2 must be able to sing or play an instrument to at least Grade 3 level, or be competent and confident on an instrument; (b) Successful completion of NCEA Level 1 Music or in consultation with the Music teacher; (c) An audition that will require a performance may be necessary; (d) A strong commitment to music lessons through the Itinerant Music Scheme, or privately						
Other Details		Material Costs	Year12 Music workbook \$10					
		Expected Trips	TBC					
Where could this lead?		Level 3 Music and a future in the Creative Industries. See Mr Chapman-Smith for further details about possible career pathways through Music.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
							31	
See Mr Chapman-Smith								

<b>Level</b>	<b>3</b>	<b>Course Name: Music (Practical and Music Studies) (13MUS)</b>			<b>UE Approved Subject</b>	<b>Yes</b>	
<b>Course Overview</b>		Two strands are offered at this level – Practical Music and Music Studies. Students will have the choice of working from one strand, a combination of the two, or both strands, in consultation with the Music teacher. The Practical Music strand gives students an opportunity to specialise in either Performance or Composition. The Music Studies strand allows students to study and Research a wide range of music. This course is designed to lead students on to tertiary study, creative industry-based work or for the continued development and enjoyment of the discipline. Students choose from the standards below:					
<b>Assessments Offered</b>							
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/Ext</i>	<i>Credits</i>		<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS91416	Perform two programmes of music as a featured soloist	3	Int	8			
AS91421	Demonstrate understanding of harmonic tonal conventions in a range of music scores	3	Ext	4			
AS91417	Perform a programme of music as a featured soloist on a second instrument.	3	Int	4			
AS91422	Analyse a substantial music work.	3	Int	4			
AS91418	Demonstrate ensemble skills by performing two substantial pieces of music as a member of a group.	3	Int	4			
AS91419	Communicate musical intention by composing three original pieces of music.	3	Int	8			
AS91424	Create two arrangements for an ensemble.	3	Int	4			
AS91420	Integrate aural skills into written representation.	3	Ext	4			
AS91425	Research a music topic	3	Int	6		Yes	
US28007	Select and apply a range of processes to enhance sound in a performance context.	3	Int	6			
<i>Possible number of credits available</i>							52
<b>Prerequisites</b>	(a) Any student wishing to sit NCEA must be able to sing or play an instrument to at least Grade 4 level, or be competent and confident on an instrument; (b) Successful completion of NCEA Level 2 Music or in consultation with the Music teacher; (c) An audition that will require a performance may be necessary; (d) A strong commitment to music lessons through the Itinerant Music Scheme.						
<b>Other Details</b>	Material Costs	YR13 Music Workbook \$10					
	Expected Trips	TBC					
<b>Where could this lead?</b>	A future in the Creative Industries. See Mr Chapman-Smith for further details about possible career pathways through Music.						
<b>Vocational Pathways</b>	<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>	<b>Creative Industries</b>	
						46	
<b>See Mr Chapman-Smith</b>							

Level	2	Course Name: Physics (12PHY)						
Course Overview		Physics can be defined as the study of matter, energy and the relationship between the two. It is about how and why things (other than chemical and living) work as they do. This course provides the foundation for many other areas of Science and underpins most of the technology we use in our daily lives. Students need curiosity and imagination, problem-solving skills and the ability to carry out practical investigations and solve graphical and mathematical problems. While 26 credits are available, it is expected that students will develop an individual program of 14-16 credits.						
Assessments Offered								
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS91168	Carry out a practical physics investigation that leads to a non-linear mathematical relationship.	2	I	4	Yes	Yes		
AS91172	Demonstrate understanding of atomic and nuclear physics	2	I	3		Yes		
AS91170	Demonstrate understanding of waves.	2	E	4	Yes	Yes		
AS91171	Demonstrate understanding of mechanics.	2	E	6	Yes	Yes		
AS91173	Demonstrate understanding of electricity and electromagnetism.	2	E	6	Yes	Yes		
AS91169	Demonstrate understanding of physics relevant to a selected context	2	I	3		Yes		
Total number of credits available								26
Prerequisites	A pass in Level 1 Physics external standard or by application to LAL.							
Other Details	Material Costs	Highly advised Workbook (\$22 approx)						
	Expected Trips	University Open Day (\$10)						
Where could this lead?	Year 12 Physics is useful, and often essential, for students intending to follow careers in many fields including Chemistry, Medicine, Veterinary Science and Engineering. It is also helpful for many trades like Electrician, Builder or Fabricator.							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
	26	26	23	0	26	26		
See Ms Wolff								

<b>Level</b>	<b>3</b>	<b>Course Name: Physics (13PHY)</b>				<b>UE Approved Subject</b>		<b>Yes</b>
<b>Course Overview</b>		This course offers a broad range of systems (Mechanical, Electrical and Waves). This course requires a reasonable level of competency in Year 12 Mathematics and forms an excellent platform for university Physics which is a prerequisite for many Science and medical degrees. While 26 credits are available, it is expected that students will develop an individual program of 14-16 credits.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS91521	Carry out a practical investigation to test a physics theory relating two variables in a non-linear relationship.	3	I	4				
AS91523	Demonstrate understanding of wave systems.	3	E	6				
AS91524	Demonstrate understanding of mechanical systems.	3	E	4				
AS91525	Demonstrate understanding of Modern Physics.	3	I	3				
AS91526	Demonstrate understanding of electrical systems.	3	E	6				
AS91522	Demonstrate understanding of the application of physics to a selected context	3	I	3				
<b>Total number of credits available</b>								<b>26</b>
<b>Prerequisites</b>	Successful completion of Level 2 Physics							
<b>Other Details</b>	Material Costs	Highly advised. Workbook \$20						
	Expected Trips	Velodrome (\$25), University (\$10)						
<b>Where could this lead?</b>	Year 13 Physics is useful, and often essential, for students intending to follow careers in many fields including Chemistry, Medicine, Veterinary Science and Engineering. It is also helpful for many trades like Electrician or Fabricator.							
<b>Vocational Pathways</b>	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service		Creative Industries	
	26	26	19	0	26		0	
<b>See Ms Wolff</b>								



<b>Level</b>	<b>3</b>	<b>Course Name: Environmental Science (13SCI)</b>				<b>UE Approved Subject</b>		<b>Yes</b>
<b>Course Overview</b>		Environmental Science is an Achievement Standard and Unit Standard course. It aims to provide students a wide range of Science based skills. This course emphasises and encourages students to relate what they have learnt in class to the environment they live in.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS91415	Investigate an aspect of astronomy	3	I	4			Yes	
AS91411	Investigate a socio-scientific issue in an Earth and Space Science context	3	I	4			Yes	Yes
AS91410	Carry out an independent practical Earth and Space Science investigation	3	I	4			Yes	Yes
AS91527	Use physics knowledge to develop an informed response to a socio-scientific issue.	3	I	3			Yes	
US 1279	Write in plain English	NQF Level 3	I	3				
US 2990	Read texts to research information	NQF Level 3	I	4				
<i>Total number of credits available</i>								22
<b>Prerequisites</b>		Nil						
<b>Co-requisite</b>		Environmental Science is designed to be a catch-up Science course for students. It is not expected that other L3 Sciences will accompany this course.						
<b>Other Details</b>		Material Costs	Workbook (approximately \$20) Log book (1L5) \$4					
		Expected Trips	Local stream analysis project over the year					
<b>Where could this lead?</b>		With a variety of achievement standards and unit standards on offer, students wishing to enrol for this course may pursue a technical vocation such as offered by tertiary courses at university and polytechnic.						
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
		15	3	3	0	3	0	
See Ms Wolff								

Level	2/3	Course Name: Services Academy, Outdoor Recreation Programme (12SSA)				UE Approved Subject		No
Course Overview		The School Services Academy Programme is a military focussed and includes practical and theory lessons in military studies, outdoor education, physical training, military drill and discipline. SSA Directors (ex-service personnel) will conduct this program from the High Wire Charitable Trust (HWCT) a Private Training Establishment that allow students to gain certified New Zealand Qualifications Authority achievements onto their framework. Students that have completed three years of HWCT New Zealand Cadet Forces Foundation programme can qualify for a New Zealand Certificate Cadet Forces Foundation Skills Certificate (Level 2)						
Assessments Offered								
Standard Number	Title	Level	Int/Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
425	Experience day tramps	2	Int	3				
426	Experience camping	2	Int	3				
431	Navigation	2	Int	3				
467	Demonstrate personal & social development through adventure based learning	2	Int	3				
91332	Evaluate leadership strategies that contribute to the effective functioning of a group	2	Int	4				
24102	Demonstrate basic firearms use & safety for NZCF activities	2	Int	3				
24099	Demonstrate advanced rifle & ceremonial foot drill in the NZCF	3	Int	2				
27108	Describe protocols & roles associated with powhiri in accordance with tikanga &/or kawa	2	Int	2				
Total number of credits available								23
Prerequisites		Nil						
Other Details		Course cost	<u>\$100</u> per student, which covers Tramping & Camping and all course related expenses for Term 1 and 2. <u>\$100</u> per student, which covers the Firearms Range Shoot and all course related expenses for Term 3 and 4. <b>(The \$200.00 relates to the overall Outdoor Recreation Scheme costs)</b>					
		Expected Trips	3 day camp & 1 day trip					
Where could this lead?		Any career requiring discipline, good physical fitness and routine. Also a good introduction to careers in the Defence Forces, Police, Security Services, customs and Prison Officers.						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
					16	16	4	
See Mrs Thomas or Mr Hawkes								

Level	2	Course Name: Sports Studies (12SPS)						
Course Overview		The course develops students’ knowledge and understanding of training for physical activity and learning skills, applying risk management strategies in the outdoors and social responsibility in physical activity.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
91330	Perform a physical activity in an applied setting.	2	Int	4				
91329	Demonstrate understanding of application of biophysical principles to training for physical activity.	2	Int	4		Yes		
91328	Demonstrate understanding of how and why biophysical principles related to the learning of physical skills.	2	Int	5		Yes		
91333	Analyse the application of risk management strategies to a challenging outdoor activity.	2	Int	3		Yes		
91334	Consistently demonstrate social responsibility through applying a social responsibility model in physical activity.	2	Int	3				
Total number of credits available								19
Prerequisites		Completion of Level 1 Sports Studies is desirable.						
Other Details		Material Costs	Level 2 Workbook \$25					
		Expected Trips	Camp approximately \$65					
Where could this lead?		Teaching, Event Management, Physiotherapy, Personal Training, Sports Organisation						
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
			3	19	11	19		
See Mrs Portegys, Mr Hampton or Mr Vette								

<b>Level</b>	<b>3</b>	<b>Course Name: Sport Studies (Physical Education) (13SPS)</b>				<b>UE Approved Subject</b>		<b>Yes</b>
<b>Course Overview</b>								
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
AS 91499	Analyse a physical skill performed by self or others.	3	Int	3				
AS 91500	Evaluate the effectiveness of a performance improvement programme.	3	Int	4				
AS 91501	Demonstrate quality performance of a physical activity.	3	Int	4				
AS 91503	Evaluate the use of health promotion to influence participation in physical activity.	3	Int	5				
AS 91502	Examine a current physical event, trend or issue and its impact on NZ society.	3	Int	4			Yes	
<i>Total number of credits available</i>								<b>20</b>
<b>Prerequisites</b>		Completion of Level 2 Sports Studies is desirable.						
<b>Other Details</b>		Material Costs	Level 3 Workbook \$25					
		Expected Trips	Tough Guy/Gal approximately \$70 Mountain Biking Trip approximately \$150					
<b>Where could this lead?</b>		Teaching, Event Management, Physiotherapy, Personal Training, Sports Organisation						
<b>Vocational Pathways</b>		<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>		<b>Creative Industries</b>
					<b>21</b>	<b>9</b>		<b>12</b>
<b>See Mrs Portegys or Mrs Morris</b>								

Level 2	Course Name: Te Ao Maori (12TEA)				UE Approved Subject			
Course Overview	Year 12 Te Ao Māori is a course designed to teach students about different aspects of the Te Ao Māori (the Māori World), while assisting them in gaining their NCEA qualifications. Students will be working at Level 2 of NCEA. All standards are Unit Standards that have been taken from a cross section of learning subjects							
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
US 16054 v3	Maori Leader	2	Int	2				
US 16033 v3	Maori Modes	2	Int	4				
US16048 v3	Whanau Maraua	2	Int	2				
US 16142 v4	Whakaeke	2	Int	2				
US 20950 v4	Torowaewae	2	Int	8				
Total number of credits available								18
Prerequisites	Nil							
Other Details	Material Costs	Nil						
	Expected Trips	TBC						
Where could this lead?	Teacher, Police Force, Social Worker, Politician, Early Childcare, Government Departments, Film Industry							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
			18	18	18	18		
See Mr Potaka								

<b>Level</b>	<b>3</b>	<b>Course Name: Te Ao Maori (13TEA)</b>				<b>UE Approved Subject</b>		<b>No</b>
<b>Course Overview</b>		Year 13 Te Ao Māori is a course designed to teach students about different aspects of the Te Ao Māori (the Māori World), while assisting them in gaining their NCEA qualifications. Students will be working at Level 2 of NCEA. All standards are Unit Standards that have been taken from a cross section of learning subjects						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
US16032 v4	Maori Modes	3	Int	6				
US 16139 v4	Kingitanga	3	Int	3				
US 2571 v9	Mana Whenua	3	Int	10				
US 6146 v6	Mahinga Kai	3	Int	3				
<i>Total number of credits available</i>								<b>22</b>
<b>Prerequisites</b>		Nil						
<b>Other Details</b>		Material Costs		Nil				
		Expected Trips		TBC				
<b>Where could this lead?</b>		Teacher, Police Force, Social Worker, Politician, Early Childcare, Government Departments, Film Industry						
<b>Vocational Pathways</b>		<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>		<b>Creative Industries</b>
					22	22		22
<b>See Mr Potaka</b>								

Level	2	Course Name: Te Reo Maori (12TER)						
Course Overview		Year 12 Te Reo will be taught at NCEA Level 2 at level 7 of the curriculum. This year student learning contexts will involve, Powhiri, ngā rāwekeweke ā ngā tūpuna (famous ancestral deeds), ngā whainga mō ngā tau ka heke mai (goals and aspirations) and Manaakitanga (caring for others). Year 12 Te Reo will be used to set a base so students can move on to Te Reo NCEA Level 3 in Year 13.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
AS 91284	Whakarongo	2	Int	4		Yes		
AS 91285	Kōrero	2	Int	6		Yes		
AS 91288	Waihanga Tuhinga Auaha	2	Int	6		Yes		
Total number of credits available								18
Prerequisites		Year 11 Te Reo Maori NCEA Lv 1						
Other Details		Material Costs	Nil					
		Expected Trips	TBC					
Where could this lead?		Lawyer, Doctor, Nursing, Teacher, Social Work, Communications, Acting, Police Force, Foreign Diplomat, Politics						
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
				18	18	18	18	
See Mr Potaka or Ms Nock								

<b>Level</b>	<b>3</b>	<b>Course Name: Te Reo Maori (13TER)</b>				<b>UE Approved Subject</b>		<b>Yes</b>
<b>Course Overview</b>		Year 13 Te Reo will be taught at NCEA Level 3 at level 8 of the curriculum. This year student learning contexts will vary and be based around Te Mararautanga o Aotearoa. Year 13 Te Reo will be used to set a base so students can move on to Tertiary Education.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
91650	Whakarongo	3	Int	4		Yes		
91651	Korero	3	Int	6		Yes		
91652	Panui	3	Ext	6		Yes	Yes	
91653	Tuhituhi	3	Ext	6		Yes		Yes
91654	Waihanga Tuhinga	3	Int	6		Yes		Yes
<i>Total number of credits available</i>								<b>28</b>
<b>Prerequisites</b>								
<b>Other Details</b>		Material Costs	Nil					
		Expected Trips	TBC					
<b>Where could this lead?</b>		Lawyer, Doctor, Nursing, Teacher, Social Work, Communications, Acting, Police Force, Foreign Diplomat, Politics						
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries	
				28	28	28	28	
<b>See Mr Potaka or Ms Nock</b>								



Level	2	Course Name: 12 Technology Metal (12DTM)						
Course Overview		Recreational Pursuits. Students need to identify an activity they are involved or interested in. Identify the products needed to participate in the activity and further develop the apparatus for their or another person’s enjoyment. The device will be initially developed to a conceptual model, tested and evaluated against their brief, then further developed to a one-off solution and finally implemented and evaluated against the brief for fitness for purpose.						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
91344	Implement advanced procedures using resistant materials to make a specified product with special features	2	INT	6				
91355	Select and use planning tools to manage the development of an outcome	2	INT	4				
91357	Undertake effective development to make and trial a prototype	2	INT	6				
91359	Demonstrate understanding of the role of material evaluation in product development	2	EXT	4				
Total number of credits available								24
Prerequisites	Pass Year 11 Technology and an interest in engineering.							
Other Details	Material Costs	\$50 for consumables plus materials supplied for project at cost.						
	Expected Trips	Waikato Engineering in action day.						
Where could this lead?	Level 3, Polytech – NZ diploma, University – engineering PhD.							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service		Creative Industries	
	20	20	14	4			20	
See Mr Manders								

<b>Level</b>	<b>3</b>	<b>Course Name: Technology Metal (13DTM)</b>				<b>UE Approved Subject</b>		<b>Yes</b>	
<b>Course Overview</b>		<b>Client Driven.</b> Students are required to develop a client driven activity by modelling a conceptual idea in materials and evaluating it against their brief. Students are then required to further develop their conceptual idea to a prototype which will be implemented and evaluated for fitness for purpose.							
<b>Assessments Offered</b>									
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>	
AS 91609	Undertake project management to support technological practice	3	INT	4					
AS 91611	Develop a prototype considering fitness for purpose in the broadest sense	3	INT	6					
AS 91613	Demonstrate understanding of material development	3	EXT	4					
AS 91620	Implement complex procedures to integrate parts using resistant materials to make a specified product	3	INT	6					
<i>Total number of credits available</i>									20
<b>Prerequisites</b>		Pass Year 12 Technology is recommended.							
<b>Other Details</b>		Material Costs	\$50:00 for consumables plus materials supplied for project at cost.						
		Expected Trips	Nil						
<b>Where could this lead?</b>		University – engineering degree, masters, PhD.							
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service		Creative Industries	
		20	20	14	4			12	
<b>See Mr Manders</b>									

<b>Level</b>	<b>2</b>	<b>Course Name: 12 Technology Wood (12DTW)</b>				<b>UE Approved Subject</b>		<b>No</b>
<b>Course Overview</b>		Students will complete unit standards developed by the building and construction industry training organisation (BCITO). They will learn and demonstrate knowledge of hand tools while completing three practical projects in the schools workshops.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
12927	Identify, select, maintain and use hand tools for BCATS projects	2	Int	6				
12932	Construct timber garden furniture and items of basic construction equipment as a BCATS project	2	Int	8				
12937	Construct a timber pergola as a BCATS project	2	Int	5				
<i>Total number of credits available</i>								19
<b>Prerequisites</b>	Year 11 technology an advantage. An interest in working with wood an essential							
<b>Other Details</b>	Material Costs	\$40:00 for consumables plus cost of materials for take home project						
	Expected Trips	Nil						
<b>Where could this lead?</b>	Level 2 and 3, Apprenticeship, Polytech – NZ diploma							
<b>Vocational Pathways</b>	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
See Mr Davidson								

<b>Level</b>	<b>3</b>	<b>Course Name:</b> <b>13 Technology Wood (13DTW)</b>				<b>UE Approved Subject</b>		<b>No</b>
<b>Course Overview</b>		Students will complete unit standards developed by the building and construction industry training organisation (BCITO). They will learn and demonstrate knowledge of tools and machines while completing practical projects in the schools workshops.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
29678	Demonstrate knowledge of, select, and use materials for a Stage 3 BCATS project	3	Int	4				
29680	Communicate and work collaboratively in a Stage 3 BCATS project	3	Int	5				
29681	Measure and calculate for a Stage 3 BCATS project	3	Int	3				
29682	Select, use, and maintain tools, equipment and machinery for a Stage 3 BCATS project	3	Int	4				
<i>Total number of credits available</i>								16
<b>Prerequisites</b>	Year 12 technology an advantage. An interest in working with wood/metal is essential							
<b>Other Details</b>	Material Costs	\$40:00 for consumables plus cost of materials for take home projects						
	Expected Trips	Nil						
<b>Where could this lead?</b>	Trades, Apprenticeship, Polytech – NZ diploma							
<b>Vocational Pathways</b>	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
<b>See Mr Davidson</b>								

Level	2	Course Name: Tourism (12TOU)						
Course Overview		Level Two Tourism takes students on a journey through the industry and analyses what Tourism is and how it operates. It specifically looks at how it has developed over time and how it impacts on people and the environment. Students explore popular tourist destinations and famous attractions around the world. They also examine different work roles within the industry.US2473						
Assessments Offered								
Standard Number	Title	Level	Int/ Ex	Credits	L1 Numeracy	L1 Literacy	UE Lit Reading	UE Lit Writing
US24729	World Tourist Destinations	2	Int	4				
US24724	History of Tourism	2	Int	4				
US24727	Impacts on the Physical environment	2	Int	3				
US24728	Work Roles in Tourism	2	Int	3				
US24731	Destination New Zealand	2	Int	4				
US24726	Social and Cultural impacts	2	Int	3				
US24730	The Business of Tourism	2	Int	4				
US24732	Tourist Characteristics	2	Int	3				
Total number of credits available								28
Prerequisites	NA							
Other Details	Material Costs	As per stationery list.						
	Expected Trips	N/A						
Where could this lead?	Year 13 Tourism, life and employment skills. A career in the Tourism Industry.							
Vocational Pathways	Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service	Creative Industries		
				28				
See Ms Osborne or Miss Chambers								

<b>Level</b>	<b>3</b>	<b>Course Name: Tourism (13TOU)</b>				<b>UE Approved Subject</b>		<b>No</b>	
<b>Course Overview</b>		Level Three Tourism takes students on a journey through the industry and analyses what Tourism is and how it operates. Students explore popular tourist destinations around the world, with a focus on The Pacific Islands and Australia, and the natural and cultural attractions and activities promoted within New Zealand. As the leading export earner in New Zealand, Tourism offers a wealth of career possibilities.							
<b>Assessments Offered</b>									
<i>Standard Number</i>	<i>Title</i>		<i>Level</i>	<i>Int/ Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
US3727	Demonstrate Knowledge of Pacific Islands as a Tourist Destination		3	Int	5				
US378	Provide customer service for international visitors		3	Int	3				
US17788	Identify and explain the history of natural attractions and significant sites in Maori tourism		3	Int	5				
US24725	Describe and Analyse the Economic Significance of Tourism		3	Int	4				
US24733	Describe and promote New Zealand as a Tourist Destination		3	Int	4				
US18211	Demonstrate Knowledge of Australia as a Tourist Destination		3	Int	5				
<b>Total number of credits available</b>									<b>26</b>
<b>Prerequisites</b>		NA							
<b>Other Details</b>		Material Costs	As per stationery list.						
		Expected Trips	N/A						
<b>Where could this lead?</b>		Polytechnic courses, life and employment skills, a career in the tourism industry..							
<b>Vocational Pathways</b>		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service		Creative Industries	
					26				
<b>See Ms Osborne</b>									

Level	2	Course Name: Transition Studies (12TRA)				UE Approved Subject		No	
Course Overview		Transition studies prepares students for employment and citizenship by completing a range of Unit Standards to help prepare them for the future. The course content is made up of the standards listed plus additional standards to meet individual student needs.							
Assessments Offered									
Standard Number	Title		Level	Int/ Ex	Credits	LI Numeracy	LI Literacy	UE Lit Reading	UE Lit Writing
US4261	Identify legal rights and obligations in relation to owning and operating a private motor vehicle		2	Int	3				
US3462	Demonstrate knowledge of traffic laws for the purpose of safe driving		2	Int	3				
US8545	Describe factors of, contributing to and consequences of crime		2	Int	3				
US4259	Describe the role of the New Zealand Police and the services it provides in the community		2	Int	2				
US10337	Describe the legal rights and personal responsibilities of secondary school students		2	Int	3				
US12354	Describe implications of independent living, including renting and flatting		2	Int	4				
US 10781	Produce a Plan for future direction		2	Int	3				
Total number of credits available									20-40
Prerequisites		None.							
Other Details		Material Costs	Nil						
		Expected Trips	Nil						
Where could this lead?		Towards becoming and independent school leaver.							
Vocational Pathways		Construction & Infrastructure	Manufacturing & Technology	Primary Industries	Service Industries	Social & Community Service		Creative Industries	
		3	3	8	3	18		9	
See Mrs Dawson, Mrs Thomas									

<b>Level</b>	<b>3</b>	<b>Course Name: Transition Studies (13TRA)</b>				<b>UE Approved Subject</b>		<b>No</b>
<b>Course Overview</b>		Transition studies prepares students for employment and citizenship by completing a range of Unit Standards to help prepare them for the future. The course content is made up of the standards listed plus additional standards to meet individual student needs.						
<b>Assessments Offered</b>								
<i>Standard Number</i>	<i>Title</i>	<i>Level</i>	<i>Int/Ex</i>	<i>Credits</i>	<i>L1 Numeracy</i>	<i>L1 Literacy</i>	<i>UE Lit Reading</i>	<i>UE Lit Writing</i>
US2990	Read texts to research information	3	Int	4				
US1982	Demonstrate knowledge of collective employment agreement negotiation processes	3	Int	2				
US3491	Write a report	3	Int	4				
US4251	Plan a career pathway	3	Int	2				
US10347	Demonstrate knowledge of the development of the NZ legal system	3	Int	5				
US12360	Describe and explain emerging patterns of work	3	Int	3				
US28090	Evaluate options to increase personal income	3	Int	3				
<b>Total number of credits available</b>								<b>23</b>
<b>Prerequisites</b>	None.							
<b>Other Details</b>	Material Costs	Nil						
	Expected Trips	Nil						
<b>Where could this lead?</b>	Towards becoming and independent school leaver.							
<b>Vocational Pathways</b>	<b>Construction &amp; Infrastructure</b>	<b>Manufacturing &amp; Technology</b>	<b>Primary Industries</b>	<b>Service Industries</b>	<b>Social &amp; Community Service</b>		<b>Creative Industries</b>	
	<b>3</b>	<b>3</b>	<b>8</b>	<b>3</b>	<b>18</b>		<b>9</b>	
<b>See Mrs Dawson, Mrs Thomas</b>								