

OTAHUHU COLLEGE

Option Booklet 2023





Otahuhu College Option Selection Instructions

All Student Options will be selected via the Otahuhu College Kamar Portal.

To select your Options for next year:

1. Log in to our school website <https://otahuhucollege.school.nz/>
2. Click on the  icon on the top of the page.
3. Type in your Username and Password and then click on 'Sign On':

USERNAME: *

PASSWORD: *

4. Choose 'Course Selection' from the menu bar:



5. 'Click' on each subject to read the course outline.
Make sure you understand:
 - a. The 'entry requirements' in any of the subjects you may be interested in.
 - b. The 'pathways' available to you as you move through each Level of NCEA.Talking to your family, subject teachers, Deans and our school Careers Advisors will also help with your selections.
6. Follow the on screen instructions and remember to click 'Save' when you have finished your Subject selection.

If you have any difficulties with your Option selections, see your Dean for assistance.

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QUALIFICATIONS AND AWARDS

NCEA: National Certificate of Educational Achievement

HOW NCEA WORKS:

The National Certificate of Educational Achievement (NCEA) is the main national qualification for secondary school students in New Zealand. Standards that secondary school students achieve as part of NCEA can be used as building blocks for other qualifications.

NCEA is recognised by employers and is used for selection by universities and polytechnics, both in New Zealand and overseas.

- Each year, students study a number of courses or subjects. In each course, skills and knowledge are assessed against a number of standards.
- Schools use a range of internal and external assessments to measure how well students meet these standards. There are two types of standards, **Achievement Standards**, and **Unit Standards**.
- Unit standards (US) are internally assessed at school by teachers or in industry settings. Students either get:
 - **Achieved (A)** if they achieve the required standard, or
 - **Not Achieved (NA)** if they do not achieve the required standard.
- Achievement Standards (AS) can be internally assessed at school by teachers or externally assessed at the end of the year through exams or portfolios of work marked by NZQA. Commonly, students will be assessed using both internal and external assessment. For achievement standards, students can get:
 - **Excellence (E)** for outstanding performance,
 - **Merit (M)** for very good performance,
 - **Achieved (A)** for a satisfactory performance, or
 - **Not Achieved (NA)** grade if they do not meet the standard.
- When a student achieves a standard, they gain a number of credits. Students must achieve a certain number of credits to gain an NCEA certificate. **Credits required for a certificate:**
- | | | |
|----------------|-----------------------|---|
| Level 1 | 80 credits at Level 1 | Including 10 credits in literacy
Including 10 credits in numeracy |
| Level 2 | 80 credits | At least 60 credits from Level 2 + 20 credits from Level 1
+ Level 1 Literacy and Numeracy |
| Level 3 | 80 credits | At least 60 credits from Level 3
+20 credits from Level 1 and 2 |
- There are three levels of NCEA certificate, depending on the difficulty of the standards achieved. In general, students work through Levels 1 to 3 in Years 11 to 13 at school.

RECOGNISING HIGH ACHIEVEMENT

Certificate Endorsement:

Certificates can be 'endorsed' to reflect high achievement in a significant number of standards.

Students will gain a Certificate Endorsement if they gain:

- 50 credits at Excellence = **NCEA with EXCELLENCE**.
- 50 credits at Merit (or Merit and Excellence) = **NCEA with Merit**.

Credits earned can count towards an endorsement over more than one year and more than one level. However, they must be gained at the level of the certificate or above.

Course Endorsement:

Course endorsements were introduced in 2011. A course endorsement provides recognition for a student who has performed exceptionally well in an individual course. The key objective of a course endorsement is to motivate students to achieve their potential in one or more courses.

Students will gain an endorsement for a course if, in a single school year, they achieve:

- 14 or more credits at Excellence = **course with EXCELLENCE**
- 14 or more credits at Merit (or Merit and Excellence) = **course with MERIT**

To be eligible for Course Endorsement, at least 3 of these credits must come from externally assessed standards and at least 3 credits from internally assessed standards (Physical Education and Level 3 Visual Arts are exempt from needing 3 credits to be externally assessed).

Awards with endorsements will be shown on a student's Record of Achievement.

LEVEL 1 LITERACY AND NUMERACY REQUIREMENTS

Students can meet the requirements for Literacy or Numeracy by achieving specified achievement standards or special unit standards in literacy and numeracy. These are indicated by an **L** for literacy or an **N** for numeracy beside the standard number in the Level 1 or 2 course descriptors. 10 credits of Literacy standards at Level 1 or higher and 10 credits of Numeracy standards at Level 1 or higher are required to gain a Level 1 Certificate in NCEA.

SCHOLARSHIP

Scholarship is externally assessed and is designed to extend very able students in their last year of schooling. It provides successful candidates with financial assistance for tertiary study. Scholarship candidates are expected to demonstrate high-level critical thinking, abstraction and generalisation, and to integrate, synthesise and apply knowledge, skills, understanding and ideas to complex situations. Scholarship exams enable candidates to be assessed against challenging standards, and are demanding for the most able candidates in each subject.

Assessment for Scholarship is held externally at the end of each school year. Generally, Scholarship assessments are undertaken by Year 13 students, most of who are also studying towards NCEA Level 3. Each Scholarship assessment carries two passing grades – Scholarship (S) and Outstanding Scholarship (O).

Candidates are sent their Scholarship result notices by NZQA before 1 March in the year following assessment.

More information about NCEA is available on www.nzqa.govt.nz

UNIVERSITY ENTRANCE AWARD:

Entrance to university is gained by achieving a set number of National Qualifications Framework credits at Level 3, plus meeting some literacy and numeracy requirements. This entitles school leavers to attend university in New Zealand.

University Entrance is the minimum requirement for enrolment at a New Zealand University. To qualify students need all of:

- NCEA Level 3
- Three subjects – at **Level 3 or above**, made up of:
 - 14 credits each, in three approved subjects (refer to the list of Approved Subjects*)
- Literacy – 10 credits at **Level 2 or above**, made up of:
 - 5 credits in reading (**R**)
 - 5 credits in writing (**W**)
- Numeracy – 10 credits at **Level 1 or above**

Summary of University Entrance requirements

NCEA LEVEL 3: 60 credits Level 3 and 20 credits Level 2
This must include 14 credits in EACH of THREE APPROVED subjects*

NUMERACY: 10 Numeracy credits at Level 1 or higher

LITERACY: 5 credits at Level 2 or above in Reading
5 credits at Level 2 or above in Writing

NOTE: *The University of Auckland additionally requires students achieve 17 credits at Level 2 or 3 English to be guaranteed entry to a degree course.*

Coding used in the Course descriptors

- L** = Counts towards Level 1 Literacy Requirements
- N** = Counts towards Level 1 Numeracy Requirements
- R** = Counts towards University Entrance Reading Literacy Requirements
- W** = Counts towards University Entrance Writing Literacy Requirements

*Approved subjects:

The list of approved subjects for entrance to university offered at Otahuhu College are:

Accounting	Drama	Physical Education
Biology	Economics	Physics
Calculus	English	Samoan
Chemistry	Geography	Science
Classical Studies	Health	Te Reo Maori
Dance	History	Tongan
Digital Technologies	Mathematics	Visual Arts
	Music	

THREE subjects used for the University Entrance qualification must be from this list.

Further information on University Entrance, including the list of **Approved Subjects** can be accessed on: <http://www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/>

ENTRY TO UNIVERSITY:

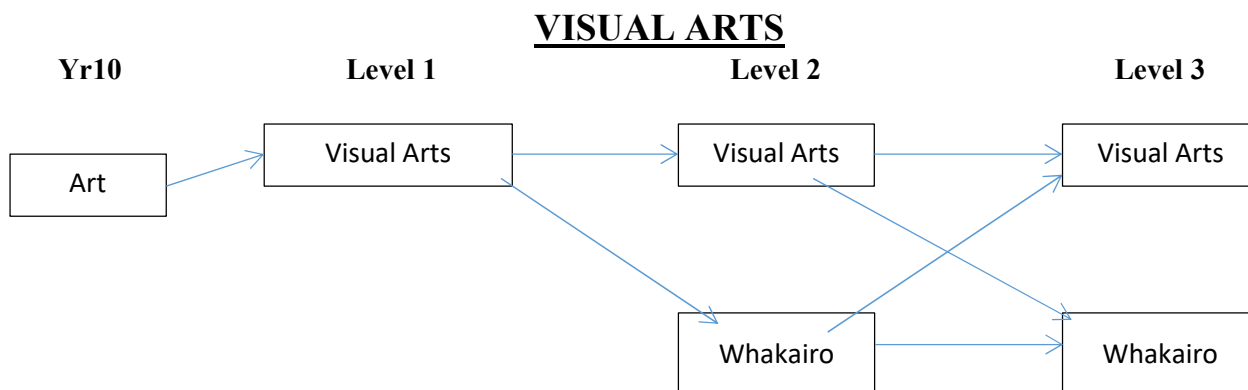
Entry to University courses with limited numbers of places for students

Admission requirements for university courses are reviewed and updated annually. While University Entrance is a minimum requirement to apply for an undergraduate bachelor's degree, the majority of courses have higher and specific entry requirements.

Universities publish Preferential/Guaranteed Entry Standards in their prospectuses. These are based on academic results; grade points are allocated to grades achieved, where an Achieved grade is worth two grade points, Merit is worth three grade points and Excellence is worth four grade points. Because of this, students seeking admission to limited entry courses should consider courses with more Achievement Standards than Unit Standards.

The majority of universities base their ranking on credits from subjects in the Approved Subjects list only.

Students should research tertiary courses they are interested in well in advance, checking with each tertiary institution to see entry criteria to courses.



Visual Arts (ART1U)

LEVEL 1: NCEA Level 1 Achievement Standard: **22 Credits**

PREREQUISITES: Successful completion of Year 10 Art, or HOD approval

LEARNING ACTIVITIES: Year 11 Art includes two internal assessments and a two-board folio submission for external assessment. During the year, students are exposed to many new art-making processes including drawing, acrylic and watercolour painting, print-making processes such as engraving, relief printing and monotype. While emphasis is on refining skills through accurate observation and attention to detail, students are encouraged to start developing their personal aesthetic.

This is a fun, exciting program and is designed to extend the student. Students who take this course should enjoy being creative and should be prepared to work hard.

COST/EQUIPMENT: A basic pack of art materials can be bought from Student Services for \$20. All other materials are provided. **PLUS** \$10.00 to cover the cost of a trip.

Standard	L/N	Title	CREDITS		
			Level	Int	Ext
AS90914		Use drawing methods and skills for recording information using wet and dry media	1	4	
AS90915		Use drawing conventions to develop work in more than one field of practice.	1	6	
AS90916		Produce a body of work informed by established practice, which develops ideas, using a range of media	1		12

Subject leads to: NCEA Level 2 Painting, NCEA Level 2 Printmaking and NCEA Level 2 Whakairo

Visual Arts: Painting/ Printmaking (ART2U)

LEVEL 2: NCEA Level 2 Achievement Standard: **20 Credits**

PREREQUISITES: Must have passed NCEA Level 1 Visual Art, or HOD approval

LEARNING ACTIVITIES: The course consists of two internal assessments worth 4 credits each and one external Achievement Standard worth 12 credits. Students will produce a two-panel folio for the external assessment which is marked by an external moderator.

This course builds on processes, procedures and techniques learned in Level 1 Art, challenging students' perceptions of artmaking and their ability to communicate visually. Students will continue to develop their skills through drawing, paint or print. They are also encouraged to critically evaluate their work and solve visual problems in the process of making their art works. The theme of the course is based on portraiture and figure painting combined with other visual elements. Students will be encouraged explore both perceptual and metaphoric interpretations of portraiture and figure painting, generating their own responses to the theme.

COST/EQUIPMENT: A basic art materials pack can be bought from Student Services for \$20. All other materials are provided **PLUS** \$15.00 to cover the cost of an outing.

Standard	W/R	Title	CREDITS		
			Level	Int	Ext
AS91311		Use drawing methods to apply knowledge of conventions appropriate to painting	2	4	
AS91316		Develop ideas in a related series of drawings appropriate to established painting practice OR printmaking practice	2	4	
AS91321		Produce a systemic body of work that shows understanding of art making conventions and ideas within painting OR printmaking	2		12

Subject leads to: NCEA Level 3 Painting or Printmaking and NCEA Level 3 Whakairo

Whakairo (WHK2C)

LEVEL 2: NCEA Level 2 Unit Standards and Achievement Standards: **24 Credits**

PREREQUISITES: - This course is open to all Māori students who wish to explore this aspect of their culture and to any other student who wishes to learn something of this unique art form. Students must have passed either NCEA Level 1 Whakairo, NCEA level 1 Visual Art or gained HOD approval

LEARNING ACTIVITIES: This course builds on students' knowledge of Maori Tikanga (custom) related to Whakairo (carving). Students are exposed to Maori art conventions, designs and practices, by creating Whakairo through traditional and modern means. The work of the year 12 students is typically larger and more sophisticated than the year 11 work.

COST/EQUIPMENT: \$10.00 to cover the cost of an outing.

Standard	L/N	Title	CREDITS		
			Level	Int	Ext
U.S. 23010		Generate, develop and refine visual ideas in whakairo	2	5	
U.S. 23009		Identify and apply Maori art conventions, design elements and principles to explore whakairo	2	5	
U.S. 23011		Demonstrate knowledge of whakairo production for meaning, intention, function and an artist's methodologies	2	5	
U.S. 23012		Demonstrate knowledge of function and significance to explore the value of whakairo	2	5	
A.S. 91325		Demonstrate knowledge of whakairo production for meaning, intention, function and an artist's methodologies	2	4	

Subject leads to: - NCEA Level 3 Whakairo and NCEA Level 3 Painting, NCEA Level 3 Printmaking, with HOD permission.

Visual Arts: Painting/ Printmaking (ART3U)

LEVEL 3: NCEA Level 3 Achievement Standard: **22 Credits**

PREREQUISITES: Achieved or better in NCEA Level 2 Painting, Printmaking, Art Design or Whakairo

LEARNING ACTIVITIES: The internal components of this course will consist of work presented as an individual response to research and practical tasks, using drawing, painting or printmaking. The external component is a three-board folio submission, due early Term 4, and is assessed by a panel of external markers. Work on boards involves visual research, drawing and the production of original art works, using the medium of paint or print. The folio must show a progression of ideas and evidence of the use of artist models.

COST/EQUIPMENT: A basic equipment pack can be bought from Student Services for \$20. All other materials are provided. **PLUS** \$15.00 to cover the cost of an outing.

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91446		Use drawing to demonstrate understanding of conventions appropriate to painting	3	4	
AS91451		Systematically clarify ideas using drawing informed by established painting practice	3	4	
AS91456		Produce a systemic body of work that integrates convections and regenerates ideas within painting practice	3		14

Subject leads to: Continued study at art schools, university and polytechnic. A degree in Visual Art leads on to a wide choice of careers in the creative sector: in film, theatre, galleries and museums; in advertising, exhibition design and illustration; in crafts like jewellery and in teaching and arts administration. Visual Art (Painting/Printmaking) is a university approved subject.

Whakairo (WHK3C)

LEVEL 3: NCEA Level 2 Unit Standards and Achievement Standards: **28 Credits**

PREREQUISITES: - This course is open to all Māori students who wish to explore this aspect of their culture and to any other student who wishes to learn something of this unique art form. The student must have passed either NCEA Level 2 Whakairo, Painting, Printmaking or Art Design, or HOD approval.

LEARNING ACTIVITIES: This course builds on students' knowledge of Maori Tikanga (custom) related to Whakairo (carving). Level 3 work is typically more ambitious and experimental than level 2 work.

COST/EQUIPMENT: \$10.00 to cover the cost of an outing.

CREDITS

Standard	L/N	Title	Level	Int	Ext
U.S. 23013		Apply Maori art conventions, designs and practices to develop whakairo	3	6	
U.S. 23014		Develop ideas to create whakairo	3	6	
U.S. 23015		Examine meaning in particular whakairo situations	3	6	
U.S. 23016		Examine and interpret change in particular whakairo situations	3	6	
A.S. 91460		Produce a resolved work that demonstrates purposeful control of skills appropriate to a visual arts cultural context	3	4	

Subject leads to: Whakairo and/or Nga Toi (Māori Art) course of study at Toi Houkura, Te Wananga o Aotearoa, Te Whare Wānanga o Awanuiārangi or Te Puia. Other providers around the country offer Nga Toi/Fine Arts courses.

Occupations: Commission carver, ta-moko artist, greenstone and bone carver, commercial artist, sculptor, architect, landscape designer, teacher, course tutor, tourist operator.

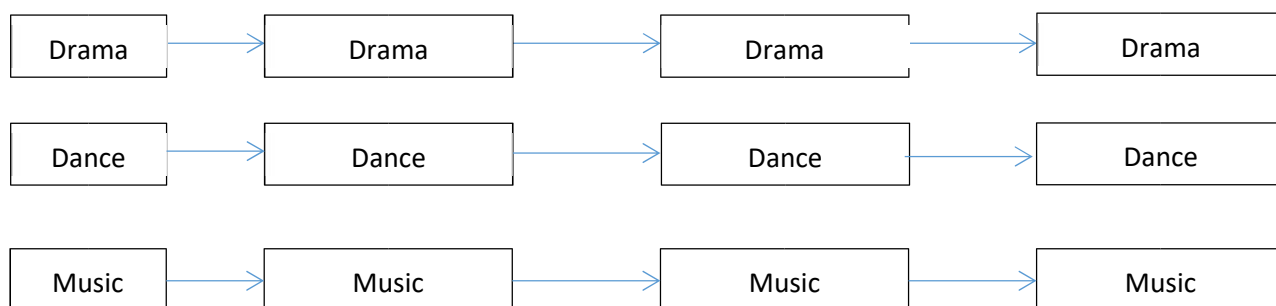
PERFORMING ARTS

Yr10

Level 1

Level 2

Level 3



Drama (DRA1U)

LEVEL 1: - NCEA Level 1 Achievement Standard: **18 Credits**

LEARNING ACTIVITIES: - Students will begin to explore in depth the Elements, Techniques and Conventions of Drama. Level 1 Drama is designed to improve student confidence, self-esteem and communication skills. It also aims to develop pupils' problem solving skills and their ability to think creatively. Units of work covered at this level include; the study of a Theatre Style, performing an Acting Role and creating Devised Drama in groups.

This course is worth 18 Credits in total which includes 4 external credits for the Exam.

COST/EQUIPMENT: - (nil)

Standard	L/N	Title	CREDITS		
			Level	Int	Ext
AS90997		Devise and perform a drama	1	5	
AS90999		Select and use features of a drama/theatre form in a performance	1	4	
AS90009		Perform an acting role in a scripted production	1	5	
AS90011	L	Demonstrate understanding of the use of drama aspects within live performance	1		4

Subject leads to: - NCEA Levels 2 and 3 Drama (Drama is a University approved subject)

Dance (DAN1U)

LEVEL 1: - NCEA Level 1 Achievement Standard: **20 Credits**

LEARNING ACTIVITIES: Students will be given many opportunities to develop their knowledge of Dance Elements and Choreographic Devices. The Level 1 program is also designed to develop student leadership skills, problem solving skills and their ability to work collaboratively in a group.

A wide range of learning opportunities will be given to the students which will include, choreographing material using a range of stimulus and performing work in a variety of dance styles. This course is suited for students who enjoy the creative process and like to learn on their feet. This course offers 20 Level 1 Credits.

COST/EQUIPMENT: - (nil)

Standard	L/N	Title	Level	Int	Ext
AS90858		Compose dance sequences for given briefs	1	6	
AS90002		Perform dance sequences	1	6	
AS90860		Demonstrate understanding of the elements of dance	1	4	
AS90861	L	Demonstrate understanding of a dance performance	1		4

Subject leads to: - NCEA Levels 2 and 3 Dance (Dance is a University approved subject)

Drama (DRA2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: **18 Credits**

PREREQUISITES: - 10 or more credits in Drama at Level 1 or HOD approval

LEARNING ACTIVITIES: - NCEA Level 2 Drama continues to expose students to new areas of Drama. The main aim of this course is to develop a greater understanding of non-naturalism and to also develop pupils understanding of a variety of performance styles. Students will develop their devising skills and they will continue to work with text. The viewing of live theatre performances is also essential as the end year exam focuses on a viewed performance.

This course aims to develop each student's confidence, self-esteem, problem solving skills and creativity.

COST/EQUIPMENT: - (nil)

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91214		Devise and perform a drama to realise an intention	2	5	
AS91216		Perform features of a complex drama or theatre form or period	2	4	
AS91218		Perform a substantial acting role in a scripted production	2	5	
AS91219	L	Discuss drama elements, techniques, conventions and technologies within live performances	2		4

Subject leads to: - Tertiary Study (Drama is a University approved subject)

Dance (DAN2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: **20 Credits**

PREREQUISITES: - 10 or more credits in Dance at Level 1, or HOD approval

LEARNING ACTIVITIES: - This course offers a natural progression from the work studied in Year 11 Dance. Students will be given many opportunities to further develop their knowledge of Dance Elements, Choreographic Devices and Performance Qualities. The Level 2 program is also designed to develop student leadership skills, problem solving skills and their ability to work collaboratively in a group. A wide range of learning opportunities will be given to the students which will include, choreographing material using a range of stimulus and performing work in a variety of dance styles. This course is suited for students who enjoy the creative process and who like to learn on their feet.

COST/EQUIPMENT: - (nil)

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91205		Choreograph a group dance to communicate an intention	2	4	
AS91206		Choreograph a solo dance to communicate an intention	2	4	
AS901207		Perform an ethnic or social dance to communicate understanding of the style	2	4	
AS91208		Perform a theatre dance to communicate understanding of the dance	2	4	
AS91211	L	Provide an interpretation of a dance performance with supporting evidence	2		4

Subject leads to: - Tertiary Study (Dance is a University approved subject)

Drama (DRA3U)

LEVEL 2: - NCEA Level 3 Achievement Standard: **17 Credits**

PREREQUISITES: - 10 or more credits in Drama at Level 2, or HOD approval

LEARNING ACTIVITIES: - Level 3 Drama aims to challenge its pupils and build on the skills taught at Level 1 and 2. The course is designed to develop complex group working skills and to give pupils greater opportunities to demonstrate their own initiative and innovation. During the year, pupils will focus on two devising standards and one text based achievement standard. Units of work covered in this year include, the study and performance of 'Physical Theatre', and the creation of a devised Drama titled 'Family Stories'.

As the Year 13 Drama calendar can be very busy, it is important that students are available for after school rehearsals. To sit the exam, pupils will need to view at least one professional production during the year.

COST/EQUIPMENT: - (nil)

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91513		Devise and perform a drama to realise a concept	3	5	
AS91515		Select and use complex performance skills associated with a drama form or period	3	4	
AS91512		Interpret scripted text to integrate drama techniques in performance	3	4	
AS91518	L	Demonstrate understanding of live drama performance	3		4

Subject leads to: - Tertiary study (Drama is a University approved subject)

Dance (DAN3U)

LEVEL 3: - NCEA Level 3 Achievement Standard: **22 Credits**

PREREQUISITES: - 10 or more credits in Dance at Level 2, or HOD approval

LEARNING ACTIVITIES: - In Level Three Dance, students continue to follow the natural progression from the previous two years in Dance. By taking this subject, students will be given opportunities to further develop and showcase their skills in choreography, performance and describing dance in written contexts. The Level 3 program is not only designed to develop student leadership skills, problem solving skills and their ability to work collaboratively in a group but to also use their skills in independent situations. A wide range of learning opportunities will be given to the students which will include, choreographing material using a range of stimulus and performing work in a variety of dance styles. This course is suited for students who enjoy the creative process and who value innovation.

Dance is a University recognised subject and provides students with Literacy credits.

This course offers 22 Level 3 Credits.

COST/EQUIPMENT:

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91588		Produce a dance to realise a concept.	3	8	
AS91590		Perform a solo or duet dance.	3	4	
AS91592		Perform a repertoire of contrasting dances.	3	6	
AS91594	L	Analyse a dance performance.	3		4

Music (MUS1U)

LEVEL 1: - NCEA Level 1 Achievement Standard: **22 Credits**

PREREQUISITES: - Ability to play an instrument, year 10 Music or HOD approval

LEARNING ACTIVITIES: - A practical based subject, encouraging performance and composition. Students must be proficient in their own instrument and are expected to perform at/with an extra-curricular music group or for a school/community based event.

COST/EQUIPMENT: - (nil)

Standard	L/N	Title	Level	Int	Ext
AS91090		Perform two programmes of music as a featured soloist	1	6	
AS91091		Demonstrate ensemble skills by performing substantial pieces of music as a member of a group.	1	4	
AS91092		Compose two original pieces of music	1	6	
AS91095		Demonstrate knowledge of two music works from contrasting contexts	1	6	

Subject leads to: - Level 2 Music and volunteer work in Music

Music (MUS2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: **18 Credits**

PREREQUISITES: - Must have passed NCEA Level 1 Solo performance and Composition. Students must be able to play their own instrument, or have HOD approval to study this course

LEARNING ACTIVITIES: - A practical based subject, encouraging performance and composition. Students must be proficient at their instrument and are expected to perform at/with an extra-curricular music group or for a school/community based event.

COST/EQUIPMENT: - (nil)

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91270		Perform two programmes of music as a featured soloist	2	6	
AS91271		Compose two substantial pieces of music	2	6	
AS91272		Demonstrate ensemble skills by performing substantial pieces of music as a member of a group.	2	4	
AS91274		Perform a substantial piece of music as a featured soloist on a second instrument	1	3	

Subject leads to: - Level 3 Music or volunteer work in Music in the community/church

Music (MUS3U)

LEVEL 3: - NCEA Level 3 Achievement Standard: **20 Credits**

PREREQUISITES: - Must have passed NCEA Level 2 Solo performance and compositions and be highly proficient in their instrument, or have HOD approval to study this course.

LEARNING ACTIVITIES: - A practical based subject, encouraging performance and composition. Students must be proficient in their own instrument and are expected to perform at/with an extra-curricular music group or for a school/community based event.

COST/EQUIPMENT: - (nil)

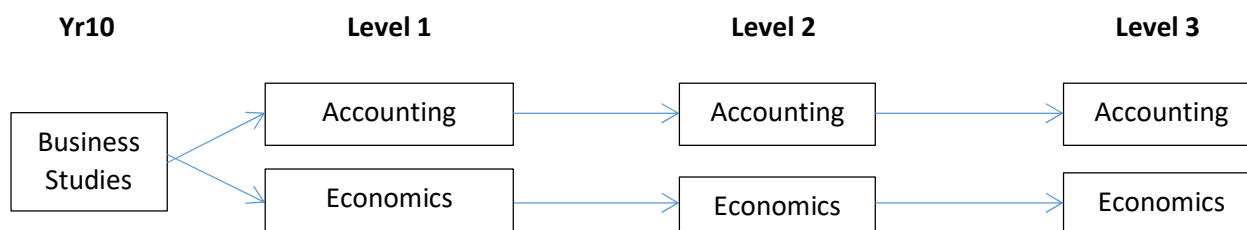
CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91416		Perform two programmes of music as a featured soloist	3	8	

AS91418		Demonstrate ensemble skills by performing substantial pieces of music as a member of a group.	3	4	
AS91419		Communicate musical intention by composing three original pieces of music	3	8	

Subject leads to: - University studies.

COMMERCE & VOCATIONAL



Accounting (ACC1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **18 Credits**

PREREQUISITES: - None

LEARNING ACTIVITIES: - Students will be given the opportunity to develop processing and financial reporting skills for small entities in NZ. Students will also learn cash managements required for their personal development as well as for small NZ businesses.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS90977		Process financial transactions for small entity	1	5	
AS90978		Prepare financial statements for sole proprietors	1		5
AS 90982:		Demonstrate understanding of cash management for individuals	1	4	
AS90979		Prepare financial information for a community organisation's annual general meeting	1	4	

Subject leads to: - Students being able to extend their knowledge of accounting, processing accounting information for accounts receivable and inventory subsystems, preparing financial statements for companies. They will also learn how to use accounting software MYOB to process accounting information.

Economics (ECO1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **19 Credits**

PREREQUISITES: - None

LEARNING ACTIVITIES: - Economics is the study of how people as individuals and groups satisfy their wants by allocating and managing scarce resources. If students plan to own their own business in the future, Economics is a subject they should seriously consider.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS90983	L	Demonstrate understanding of consumer choices, using scarcity and/or demand	1		4

AS90984	L	Demonstrate understanding of decisions a producer make about production	1	5	
AS90985	I	Demonstrate understanding of producer choices using supply	1		3
AS90987	L	Demonstrate understanding of a government choice where affected groups have different viewpoints	1	4	
AS90988	L	Demonstrate understanding of the interdependence of sectors of the New Zealand economy	1	3	

Subject leads to: - NCEA Level 2 Economics

Accounting (ACC2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: **15 Credits**

PREREQUISITES: - Level 1 Accounting is an advantage but not compulsory.

LEARNING ACTIVITIES: - Students will further develop their knowledge of Accounting gained in Level 1. Students will be provided with the opportunity to develop skills in processing financial information manually as well as using MYOB.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91175	N	Demonstrate an understanding of accounting proceeding using accounting software	2	4	
AS91176	N	Prepare financial information for an entity that operates accounting subsystems	2		5
AS91179	L/N	Demonstrate understanding of an accounts receivable subsystem for an entity	2	3	
AS 91386		Demonstrate understanding of an inventory subsystem for an entity	2	3	

Subject leads to: - Students being able to extend their knowledge of accounting, processing financial information for partnerships, helping management to make informed decision based on costing information, interpreting a listed company's annual report.

Economics (ECO2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: **22 Credits**

PREREQUISITES: - None

LEARNING ACTIVITIES: - Economics examines the choices people make about the use of limited resources to satisfy unlimited wants. Economists are interested in the factors that influence the well-being of people and aim to find solutions to improve people's standard of living.

CREDITS

Standard	R/W	Title	Level	Int	Ext
AS91223	W	Analyse international trade using economic concepts and models	2		4
AS91225		Analyse unemployment using economic concepts and models		4	
AS91226		Analyse statistical data relating to two contemporary economic issues	2	4	
AS91227	R	Analyse how government policies and contemporary economic issues interact	2	6	
AS91228	R	Analyse a contemporary economic issue of special interest using economic concepts and models	2	4	

Subject leads to: - NCEA Level 3 Economics

Communication Studies (COM2C)

LEVEL 2: - NCEA Level 2 Unit Standards: **17 Credits**

PREREQUISITES: - None

LEARNING ACTIVITIES: - The focus is that communication skills are important for building and maintaining good relationships with family and other people. You will be given an opportunity to develop your interview skills, produce a personal CV, practise assertive techniques, begin to organise your future career, and understand your heritage and cultural identity.

Standard	L/N	Title	CREDITS		
			Level	Int	Ext
US1294		Interview in a formal interview	2	2	-
US1299		Be assertive in a range of specified situations	2	4	-
US2989		Select, read, and assess texts on a topic	2	3	
US4252		Produce a personal targeted CV	2	2	-
US10781		Produce a plan for own future directions	2	3	-
US12352		Describe aspects of one's own lineage, heritage	2	3	-

Subject leads to: - NCEA Level 3 Workplace Communication

Tourism (TOU2C)

LEVEL 2: - NCEA Level 2 Unit Standards: **26 Credits**

PREREQUISITES: - None

LEARNING ACTIVITIES: - This course is delivered in partnership with The New Zealand School of Tourism. Successful completion shows you have basic knowledge of the industry – for example, tourists and their needs, how tourism businesses operate, and New Zealand and the world as a destination. There will also be opportunities to learn skills required in a tourism workplace. You will also be expected to have gained basic numeracy and literacy skills which most students will have achieved in NCEA Level 1.

Standard	Title	CREDITS		
		Level	Int	Ext
US24728	Demonstrate knowledge of work roles in tourism	2	3	-
US24729	Demonstrate knowledge of world tourist destinations	2	4	-
US24730	Demonstrate knowledge of the business of tourism	2	4	-
US24731	Demonstrate knowledge of destination New Zealand	2	4	-
US24732	Demonstrate knowledge of tourist characteristics and needs	2	3	-
US23761	Complete work-related documents for a tourism workplace	2	3	-
US23767	Perform calculations for a tourism workplace	2	2	-
US18237	Use the internet in the tourism workplace	2	3	-

Subject leads to: - NCEA Level 3 Tourism.

Accounting (ACC3U)

LEVEL 3: - NCEA Level 3 Achievement Standard: **17 Credits**

PREREQUISITES: - Level 1 numeracy and literacy. Level 2 Accounting is compulsory or at HOD discretion.

LEARNING ACTIVITIES: - Students will develop in-depth knowledge of partnership and job-costing accounting. Students will be given the opportunity to analyse financial data for a listed company.

- **Scholarships may be offered to students that achieve excellence in all their internal assessments.**

CREDITS

Standard	R/W	Title	Level	Int	Ext
AS91405		Demonstrate understanding of accounting for partnerships	3	4	
AS91407		Prepare a report for an external user that interprets the annual report of a reporting company	3	5	
AS91408		Demonstrate understanding of management accounting to make a decision	3		4
AS91409		Demonstrate understanding of a job cost subsystem for an entity	3	4	

Subject leads to: - Students being able to extend their knowledge of accounting, processing financial information for companies. This course leads to Financial Accounting and Management Accounting (Stage One) at University, which is greatly beneficial for students who take Management or Commerce degree.

Economics (ECO3U)

LEVEL 3: - NCEA Level 3 Achievement Standard: **18 Credits**

PREREQUISITES: - Level 1 numeracy and literacy or HOD discretion

LEARNING ACTIVITIES: - A study of economics enables students to participate effectively in economic activity and contribute to their future economic well-being. Economics issues highlight the fundamental interdependence between New Zealand and the rest of the world.

***Scholarships maybe offered to students that achieve excellence in all their internal assessments.**

CREDITS

Standard	R/W	Title	Level	Int	Ext
AS91399	R/W	Demonstrate understanding of the efficiency of market equilibrium	3		4
AS91400	R/W	Demonstrate understanding of the efficiency of different market structures using marginal analysis	3		4
AS91401	R	Demonstrate understanding of microeconomic concepts	3	5	
AS91402	R	Demonstrate understanding of government interventions to correct market failures	2	5	

Subject leads to: - Students who intend to take Management or Commerce degree will find this course particularly useful to reducing stress in their first tertiary year.

Tourism (TOU3C) 21 or 29 Level 3 credits

PREREQUISITES: - None

LEARNING ACTIVITIES: - You do not have to have studied Tourism in Year 12 to enrol for this course as the credits achieved this year will contribute to your NCEA Level 3. The focus of this course is improving your knowledge of specific local and overseas tourist destinations.

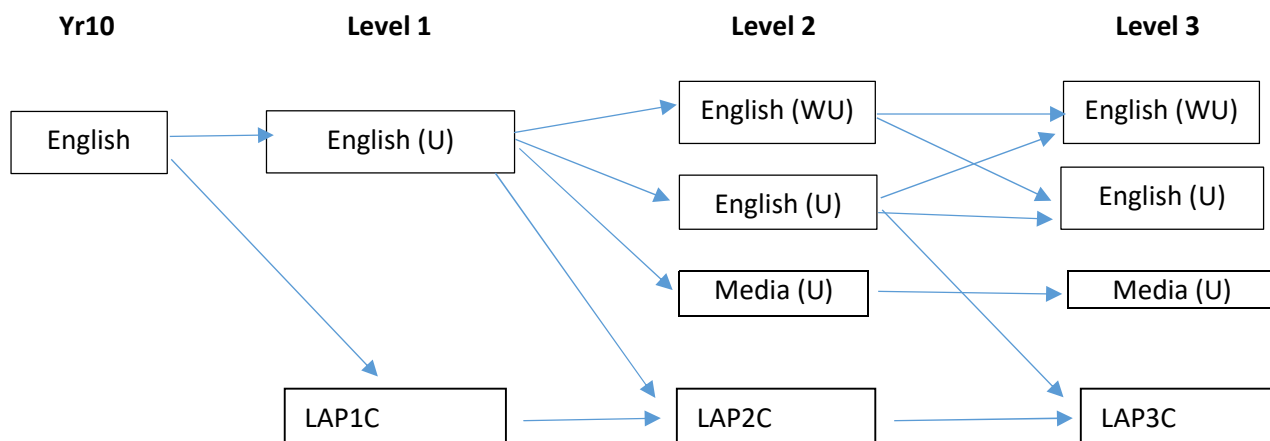
CREDITS

Standard	Title	Level	Int	Ext
US3727	Demonstrate knowledge of the Pacific Island countries as visitor destinations	3	5	-
US18211	Demonstrate knowledge of Australia as a visitor destination	3	5	-
US18212	Demonstrate knowledge of New Zealand as a tourist destination	3	8	-
US25508	Demonstrate knowledge of world travel geography	3	3	-
US26461	Demonstrate knowledge of Asian countries as tourist destinations *	3	8	-
US26463	Demonstrate knowledge of European countries as tourist destinations *	3	8	-

* Selected students will be able to choose one of these two units

Subject leads to: - This qualification prepares you for entry to the National Certificate in Tourism and Travel (Level 3) which can pathway you to other courses. You will be ready to study with any tertiary provider delivering Tourism and Travel courses Levels 3 - 5.

ENGLISH



English (ENG1U)

LEVEL 1: NCEA Level 1 Achievement Standards: between **18-21 Credits** (Assessments may vary across classes.)

PREREQUISITES: In year 11 English is compulsory for all students.

LEARNING ACTIVITIES: - Year 11 English builds on junior English. There is a focus on reading and writing, enabling students to earn their literacy credits. Students respond to ideas in text, using relevant evidence to justify their ideas, and make connections between and beyond texts. Students also learn to communicate ideas more confidently and clearly in written forms.

Standard	L/N	Title	Credits		
			Level	Int	Ext
AS90849	L	Show understanding of studied written texts with supporting evidence	1		4
AS90850	L	Show understanding of visual or oral text with supporting evidence	1		4
AS90851	L	Show understanding of unfamiliar texts through close reading	1		4
<i>At least 10 credits from a combination of the following standards:</i>					
AS90852	L	Explain significant connections across texts supported by evidence	1	4	
AS90856	L	Close reading of visual and/or oral texts	1	3	
AS90053	L	Produce formal writing	1	3	
AS90052	L	Produce creative writing	1	3	
AS90853	L	Use information literacy skills to form conclusion(s)	1	4	
AS90854	L	Form personal responses to independently read texts, supported by evidence	1	4	

Subject leads to: - Level 2 English.

English Literature with Writing Portfolio L2 (ENW2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: up to **21 Credits** (Assessments may vary across classes.)

PREREQUISITES: - some success at Level 1 English and interest in the subject

LEARNING ACTIVITIES: - This course is aimed at students who intend to go onto University or tertiary education. Students learn to analyse ideas and language in texts, using relevant evidence to justify their understanding, and to make connections between and beyond texts. Students also develop their appreciation for a range of text types, including contemporary and classic films and texts. Students learn to communicate their ideas confidently and clearly in written forms and produce a portfolio of writing

Credits

Standard	W/R	Title	Level	Int	Ext
AS91099	W	Analyse specified aspect(s) of studied visual/oral text with supporting evidence	2		4
AS91098	W/R	Analyse specified aspect(s) of studied written text supported by evidence	2		4
AS91101	W	Produce a selection of crafted writing	2	6	
AS91105	R	Use information literacy skills to form developed conclusion(s) (provisional)	2	4	
<i>One of the following internals:</i>					
AS91104		Analyse significant connections across texts, supported by evidence	2	4	
AS91107		Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence	2	3	

Subject leads to: - Level 3 English.

English Literature L2 (ENG2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: **up to 21 Credits** (Assessments may vary across classes.)

PREREQUISITES: - some success at Level 1 English and interest in the subject

LEARNING ACTIVITIES: - This course is aimed at students who intend to go on to tertiary study but do not find expressing themselves in writing easy. Students are supported to analyse ideas in texts, using relevant evidence, and to make connections between and beyond texts. They explore a range of text types to develop their appreciation for the differences between them. Students also learn to communicate ideas confidently and clearly in oral and written forms.

Credits

Standard	W/R	Title	Level	Int	Ext
AS91098	W/R	Analyse specified aspect(s) of studied written text supported by evidence	2		4
AS91099	W	Analyse specified aspect(s) of studied visual and/or oral text(s) supported by evidence	2		4
AS91105	R	Use information literacy skills to form developed conclusion(s) (provisional)	2	4	
<i>Two of the following internals:</i>					
AS91107		Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence	2	3	
AS91104		Analyse significant connections across texts, supported by evidence	2	4	
AS91102		Construct and deliver a crafted and controlled oral text	2	3	

Subject leads to: - Level 3 English.

English Literature with Writing Portfolio L3 (ENL3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **up to 22 Credits** (Assessments may vary across classes.)

PREREQUISITES: - 14 credits at Level 2, including at least one external examination.

LEARNING ACTIVITIES: - This is a Level 3 literature and film study course for students who enjoy reading, analysing and discussing text. Students learn to investigate topics independently. Students also make judgements about a variety of topics, developing an ability to justify perspectives and opinions with specific evidence. Students continue to learn to communicate ideas clearly in written form.

Credits

Standard	W/R	Title	Level	Int	Ext
AS91472	W/R	Respond critically to aspects of studied written text(s)	3		4
AS91473	W	Respond critically to aspects of studied visual texts	3		4

AS91475	W	Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas	3	6	
AS91479	R	Develop an informed understanding of literature/or language using critical texts	3	4	
<i>One of the following internals:</i>					
AS91478		Respond critically to significant connections across texts supported by evidence	3	4	
AS91480		Respond critically to significant aspects of visual/oral text through close reading, supported with evidence (Provisional)	3	3	

Subject leads to: - English is integral for all further study and every type of employment.

English Literature L3 (ENG3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **18 Credits** (Assessments may vary across classes.)

PREREQUISITES: - 10 credits in Level 2 English OR NCEA Level 2 Certificate

LEARNING ACTIVITIES: - This is a Level 3 English course that focuses on the building of communication skills and preparation for further study. Students in this course learn to read and respond critically to a range of texts. As well, they learn to communicate their ideas in a range of ways.

Credits

Standard	W/R	Title	Level	Int	Ext
AS91472	W/R	Respond critically to aspects of studied written text(s)	3		4
AS91473	W	Respond critically to aspects of studied visual texts	3		4
AS91479	R	Develop an informed understanding of literature/or language using critical texts	3	4	
<i>Two of the following internals:</i>					
AS91478		Respond critically to significant connections across texts, supported by evidence	3	4	
AS91476		Create and deliver a fluent and coherent oral text which develops, sustains and structures idea	3	3	
AS91480		Respond critically to significant aspects of visual/oral text through close reading, supported with evidence (provisional)	3	3	

Subject leads to: - English is integral for all further study and every type of employment.

Literacy Acceleration Programme (LAP1C)

Level 1: NCEA Achievement and Unit standards: **9-18 credits** (Assessments may vary across individuals.)

Prerequisites: Students will be selected based on Y10 results. **You cannot choose this course.** Please talk with your Y10 English teacher if you think this is the right course for you.

Learning activities: This is a level 1 course that focuses on building communication and writing skills for students who find those activities challenging.

Standard	Lit	Title	Level	Int	Ext
US 26622	Y	Write to communicate ideas for a purpose and audience	1	3	
US 26624	Y	Read texts with understanding	1	3	
US26625	Y	Actively participate in spoken interactions	1	3	

Additional unit and achievement standards to be added based on student need and interest.

Subject leads to: Level 1 English or LAP2

Literacy Acceleration Programme (LAP2C)

Level 1 and 2: NCEA Achievement and Unit standards: **9-18 credits** (Assessments may vary across individuals.)

Prerequisites: Students will be selected based on Y11 results. **You cannot choose this course.** Please discuss with your Y11 English teacher if you think this is the right course for you.

Learning activities: This is a combined level 1 and 2 course for y12 students who enjoy studying English literature but struggle to achieve in assessments. This course focuses on building learning skills and strategies, improving communication and writing skills for students who find those activities challenging and exploring a range of texts.

Standard	R/W	Title	Level	Int	Ext
US 7120		Demonstrate knowledge of note-taking	1	2	
US 7117		Develop strategies to enhance learning	2	2	
<i>The assessments will be selected based on student interest and need. The list below is not exhaustive or guaranteed. Repetition of LAP1C assessment will also be avoided.</i>					
AS91100	R/W	Analyse significant aspects of unfamiliar written text(s) through close reading, supported by evidence	2		4
AS91102		Construct and deliver a crafted and controlled oral text	2	3	
AS91104		Analyse significant connections across texts, supported by evidence	2	4	
AS91105	R	Use information literacy skills to form developed conclusion(s)	2	4	
AS91107		Analyse aspects of visual and/or oral text(s) through close viewing, supported by evidence.	2	3	

Literacy Acceleration Programme (LAP3C)

Level 2 and 3: NCEA Achievement and Unit standards: **9-18 credits** (Assessments may vary across individuals.)

Prerequisites: Students will be selected based on Y12 results. **You cannot choose this course.** Please discuss with your Y12 English teacher if you think this is the right course for you.

Learning activities: This is a combined level 2 and 3 course for Y13 students who enjoy studying English literature but struggle to achieve in assessments. This course focuses on building learning skills and strategies, improving communication and writing skills for students who find those activities challenging and exploring a range of texts.

Standard	Lit	Title	Level	Int	Ext
US 12349		Demonstrate knowledge of time management	2	3	
<i>The assessments will be selected based on student interest and need. The list below is not exhaustive or guaranteed.</i>					
AS91476		Create and deliver a fluent and coherent oral text which develops, sustains and structures ideas.	3	3	

AS91477		Create and deliver a fluent and coherent visual text which develops, sustains and structures ideas using verbal and visual language features	3	3	
AS91478		Respond critically to significant connections across texts, supported by evidence	3	4	
AS91479	R	Develop an informed understanding of literature and/or language using critical texts.	3	4	
AS91480		Respond critically to significant aspects of visual and/or oral text(s) through close viewing, supported by evidence.	3	3	

The assessments will be selected to avoid repeating any standards assessed in LAP1C the previous year, so cannot be specified here.

Media Studies L2 (MED2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: up to **20 Credits** (assessments may vary).

PREREQUISITES: - Some success at Level 1 English and interest in the subject. Only one class will be offered in 2023, so a place is not guaranteed.

LEARNING ACTIVITIES: It is essential that young people learn to view and consume multimedia with a critical eye. There are also increasing opportunities for young people to create media products, both as expressions of their own creativity and in the world of work. Level 2 media will aim both to increase students' critical literacy skills and to provide them with practical production skills.

Standard	Lit	Title	Level	Int	Ext
The assessments will be selected based on student interest and need. The list below is not exhaustive or guaranteed.					
27615		Take and select photographs for a news story and a feature	2	3	
91252		Produce a design and plan for a developed media product using a range of conventions	2	4	
91253		Complete a developed media product from a design and plan using a range of conventions	2	6	
91255		Write developed media text for a specific target audience	2	3	
91251		Demonstrate understanding of an aspect of a media genre	2		4

ENGLISH LANGUAGE 2022

The English Language program helps students develop their English language skills. It also helps students to achieve the expected learning outcomes specific for English language learners, as set out in the NCEA English Language Levels 1, 2 and 3, and English for Academic Purposes, Levels 3 and 4. Teachers use the English Language Levels 1, 2 and 3 as a ‘stepping stone’ to support students as they work towards the expectations of the NCEA English for Academic Purposes, Levels 3 and 4. This is vital so the English language learners can move onto tertiary institutions to further their studies if they wish to.

Enrolment & Placement

Students who have just arrived from overseas, and who are from cultures other than English are expected to sit the Otahuhu College English Language Placement Test, which determines their eligibility to be in the English language program. The placement test has been designed based on the Ministry of Education English Language Literacy Progression (ELLP).

English language learners vary substantially in their needs for support. Factors that contribute to students’ level of proficiency in the English language include:

- the level of prior exposure to English;
- the age of the student; and
- previous school experience

These individual differences are reflected in teachers’ planning, teaching and on-going support for students.

Assessments

The following is a list of the indicative assessments to assess the achievement of English Language students.

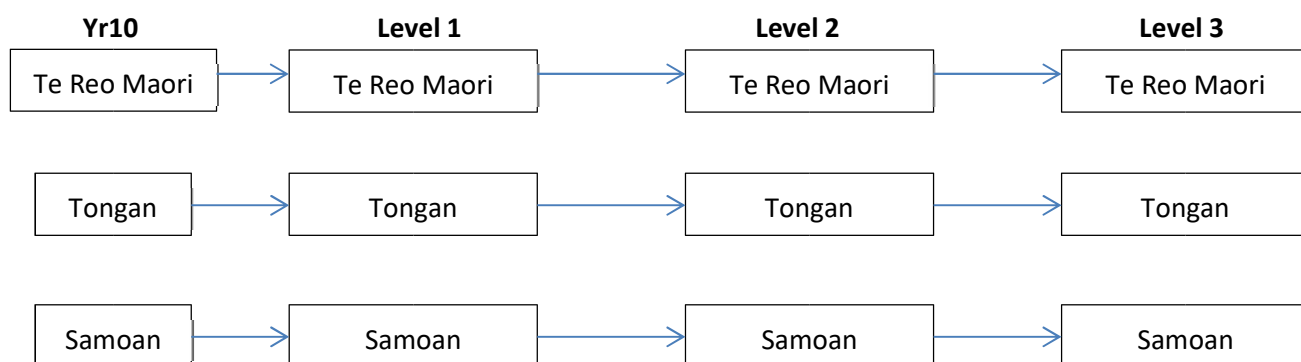
English Language				
Assessment standard	Level	Literacy strand	Credits	Description
US30985	2	Listening	5	Demonstrate understanding of straightforward spoken instructions in a familiar context
US31020	2	Speaking	5	Participate in simple exchanges of personal and familiar topics
US31002	2	Reading	5	Read and understand a straightforward text for a routine practical purpose
US28000	2	Writing	5	Write a simple text for a practical purpose
US26625	1	Speaking	3**	Actively participate in spoken interactions
US26624	1	Reading	3**	Read texts with understanding
US26622	1	Writing	4**	Write to communicate ideas for a purpose and audience
10** L.1 Literacy				

English for Academic Purposes

Assessment standard	Level	Literacy strand	Credits	Description
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US 30509	3	Listening	5	Demonstrate and apply understanding of a short spoken text in English for an academic purpose
US 30510	3	Speaking	5	Deliver a short oral presentation in English for an academic purpose
US 30511	3	Reading	5	Read and apply understanding in English for academic purposes
US 30508	3	Writing	6	Write a short crafted text for a specified audience using resource material in English for an academic purpose
US 27751	4	Reading	6	Read and process information in English for academic purposes
US 27750	4	Writing	6	Write a crafted text for a specified audience using researched material in English for an academic purpose

LANGUAGES



Māori (MAO1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **24 Credits**

PREREQUISITES: - Enthusiastic and active participation in all learning experiences will be required by students. Basic knowledge of Te Reo Maori me ona Tikanga would benefit students. A positive attitude with the desire to learn different aspects of Te Ao Māori will be the key to achieving in this subject. The course content is presently being reviewed and maybe subject to change.

LEARNING ACTIVITIES: - Te Reo Māori me ōnā tikanga shapes the content of this course, whereby Māori traditions and values are incorporated into wider scope learning. This is then developed and produced through the language modes of Korero (speaking), Tuhituhi (Writing), Panui (Reading) and Whakarongo (Listening)

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91089		Waihanga tuhinga I te reo o tōna ao	1	6	
AS91085		Whakarongo kia mōhio ki te reo o tōna ao	1	6	
AS91086		Kōrero kia wakamahi I te reo o tōna ao	1	6	
AS91087		Pānui kia mōhio I te reo o tōna ao	1		6

Subject leads to: - Learning Te Reo Māori me ōnā tikanga has real benefit in New Zealand society as well as on the indigenous world stage. Students interested in building an understanding of Te Ao Māori, media communications or within the public service industries will be able to use skills learned in this course throughout their schooling and beyond.

Māori (MAO2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **22 credits**

PREREQUISITES: - Completion of Level 1 Achievement Standards. Enthusiastic and active participation in all learning experiences will be required by students. A positive attitude with the desire to learn different aspects of Te Ao Māori will be the key to achieving in this subject.

The course content is presently being reviewed and maybe subject to change.

LEARNING ACTIVITIES: - Te Reo Māori me ōnā tikanga shapes the content of this course, whereby Māori traditions and values are incorporated into wider scope learning. This is then developed and produced through the language modes of Korero (speaking), Tuhituhi (Writing), Panui (Reading) and Whakarongo (Listening)

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91285		Kōrero kia whakamahi i te reo o te ao torotoro	2	6	
AS91288		Waihanga tuhinga auaha, i te reo o te ao torotoro	2	6	
AS91284		Whakarongo kia mōhio i te reo o te ao torotoro	2	4	
AS91286		Pānui kia mōhio i te reo o te ao torotoro	2		6

Subject leads to: - Learning Te Reo Māori me ōnā tikanga has real benefit in New Zealand society as well as on the indigenous world stage. Students interested in building an understanding of Te Ao Māori, media communications or within the public service industries will be able to use skills learned in this course throughout their schooling and beyond.

Māori (MAO3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **22 Credits**

PREREQUISITES: - Completion of Level 1 and 2 Achievement Standards. Enthusiastic and active participation in all learning experiences will be required by students. A positive attitude with the desire to learn different aspects of Te Ao Māori will be the key to achieving in this subject.

The course content is presently being reviewed and maybe subject to change.

LEARNING ACTIVITIES: - Te Reo Māori me ōnā tikanga shapes the content of this course, whereby Māori traditions and values are incorporated into wider scope learning. This is then developed and produced through the language modes of Korero (speaking), Tuhituhi (Writing), Panui (Reading) and Whakarongo (Listening)

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91651		Kōrero kia whakamahi i te reo Māori o te ao whānui	3	6	
AS91654		Waihanga tuhinga whai take i te reo Māori o te ao whānui	3	6	
AS91650		Whakarongo kia mōhio ki te reo Māori o te ao whānui	3	4	
AS91652		Pānui kia mōhio ki te reo Māori o te ao whānui	3		6

Subject leads to: - Learning Te Reo Māori me ōnā tikanga has real benefit in New Zealand society as well as on the indigenous world stage. Students interested in building an understanding of Te Ao Māori, media communications or within the public service industries will be able to use skills learned in this course throughout their schooling and beyond.

Tongan Language is a University Approved Subject.

Students who are strong in their first language have been shown to perform better in academic subjects across other curriculum areas.

For non-fluent students it is best that you pick up Tongan early because it is difficult to take it up at Level 1, 2 or 3 without any prior Tongan in the lower levels.

Tongan (TON1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **24 Credits**

PREREQUISITES: - Satisfactory completion of Yr. 10 or HOD approval. For non-fluent students it is best that you pick up Tongan early because it is difficult to take it up at Level 2 or 3 without any prior Tongan in the lower levels.

LEARNING ACTIVITIES: - Students who are strong in their first language have been shown to perform better in academic subjects across other curriculum areas. In this subject students will use Tongan to communicate basic personal ideas, information and opinions of most immediate relevance. They can also communicate beyond the immediate context (e.g. past and future events in a variety of text types).

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91169		Demonstrate understanding of a variety of spoken Tongan texts on areas of most immediate relevance	1		5
AS91670		Give a spoken presentation in Tongan that communicates a personal response	1	4	
AS91671		Interact using spoken Tongan to communicate personal information, ideas and opinions in different situations	1	5	
US91672		Demonstrate understanding of a variety of Tongan texts on areas of most immediate relevance	1		5
US91673		Write a variety of text types in Tongan on areas of most immediate relevance	1	5	

Subject leads to: - NCEA Level 2 Tongan

Tongan (TON2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **24 Credits**

PREREQUISITES: - Satisfactory completion of Level 1 Tongan or HOD approval

LEARNING ACTIVITIES: - Students can use Tongan to explore the views of others developing and sharing personal perspectives, i.e. to share and justify their own ideas and opinions and can support or question those of others for critical reflection.

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91647		Demonstrate understanding of a variety of spoken Tongan texts on familiar matters	2		5
AS91676		Interact using spoken Tongan to share information and justify ideas and opinions in different situations	2	5	
AS91675		Give a spoken presentation in Tongan that communicates information, ideas and opinions	2	4	
US91677		Demonstrate understanding of a variety of written/and or visual Tongan texts on familiar matters	2		5
AS91678		Write a variety of text types in Tongan to convey information, ideas and opinions in genuine contexts	2	5	

Subject leads to: - NCEA Level 3 Tongan

Tongan (TON3U)

LEVEL 3: - NCEA Level 3 Achievement Standard: **24 Credits**

PREREQUISITES: - Satisfactory completion of Level 2 Tongan or HOD approval.

LEARNING ACTIVITIES: - Students can use language variably and effectively to express and justify their own ideas and opinions and support or challenge those of others. They are able to use and identify the linguistic and cultural forms that guide interpretation and enable them to respond critically to texts.

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91679		Demonstrate understanding of a variety of extended spoken Tongan texts	3		5
AS91680		Give a clear presentation in Lea Faka-Tongan that communicates a critical response to stimulus materials	3	3	
AS91681		Interact clearly using spoken Tongan to explore and justify varied ideas and perspective in different situations	3	6	
US91682		Demonstrate understanding of a variety of written/and or visual Tongan texts	3		5
AS91683		Write a variety of text types in clear Tongan to explore and justify varied ideas and perspectives	3	5	

Subject leads to: - University of Auckland or any university in New Zealand: Tongan can be taken as a minor in the BA program, a degree in fields such as Translation, Language Teaching, Health, Tourism, Comparative Literature and Pacific Studies, Diploma or Certificates in Languages, careers in which Bilingualism is needed.

Samoan Language is a University Approved Subject.

Samoan (SAM1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **24 Credits**

PREREQUISITES: - Satisfactory completion of Year 10 Samoan or HOD approval.

LEARNING ACTIVITIES: - Students need to have basic skills in writing, reading, hearing and speaking in Samoan in order to take this course. They will learn vocabulary and practise language skills of listening, speaking, reading and writing. Some areas of focus will be giving and responding to advice, direction and instruction, as well as providing information and expressing a point of view. Students will also learn about a range of events and cultural contexts and appropriate interactions within each of these.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS90903		Demonstrate understanding of a variety of spoken Samoan texts on areas of most immediate relevance	1		5
AS90904		Give a spoken presentation in Samoan that communicates a personal response	1	4	
AS90905		Interact using spoken Samoan to communicate personal information, ideas and opinions in different situations	1	5	
AS90906		Demonstrate understanding of a variety of Samoan texts on areas of most immediate relevance	1		5
AS90907		Write a variety of text types in Samoan on areas of most immediate relevance	1	5	

Subject leads to: - NCEA Level 2 Samoan

Samoan (SAM2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: **24 Credits**

PREREQUISITES: - Satisfactory completion of Level 1 Samoan or HOD approval

LEARNING ACTIVITIES: - Students will continue their learning of language features from Samoan in year 11. Some areas of focus will be sharing personal perspectives and exploring the views of others; communicating in formal situations; and arguing a particular course of action. Students will also learn about interpreting and responding to aspects of historical and modern contexts.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91143		Demonstrate understanding of a variety of spoken Samoan texts on familiar matters	2		5
AS91144		Interact using spoken Samoan to share information and justify ideas and opinions in different situations	2	5	
AS91145		Give a spoken presentation in Samoan that communicates information, ideas and opinions	2	4	
AS91146		Demonstrate understanding of a variety of written/or visual Samoan text(s) on familiar matters	2		5
AS91147		Write a variety of text types in Samoan to convey information, ideas and opinions in genuine contexts	2	5	

Subject leads to: - NCEA Level 3 Samoan

Samoan (SAM3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **24 Credits**

PREREQUISITES: - Satisfactory completion of Year 12 Samoan or HOD approval

LEARNING ACTIVITIES: - Students will continue their learning of language features from Samoan in year 12. Some areas of focus will be initiating and sustaining interactions in a range of contexts; expressing approval, regret and forgiveness; and creating texts that inform, persuade or entertain. Students will also learn to explain the significance of particular Aganu' Fa'a Samoa practices; discuss and use combinations of visual and verbal features in presentations and performances; research issues in New Zealand and Samoan contexts; and recognise and express fa'aloalo and tautau in a range of contexts.

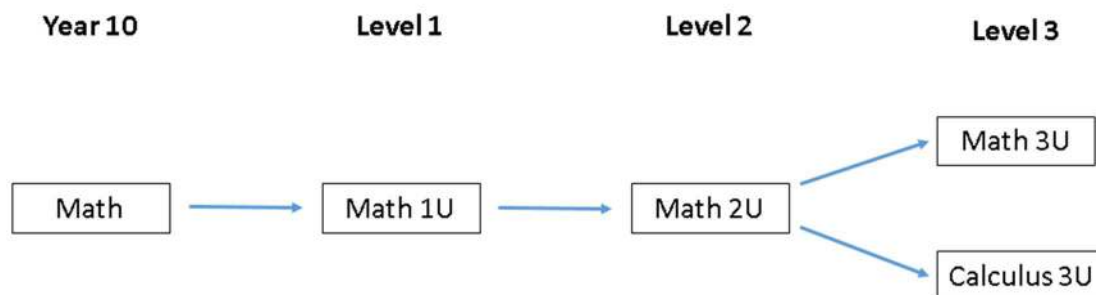
CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91563		Demonstrate understanding of a variety of extended spoken Samoan texts	3		5
AS91564		Give a clear spoken presentation in Samoan that communicates a critical response to stimulus materials	3	3	
AS91565		Interact clearly using spoken Samoan to explore and justify varied ideas and perspectives in different situations	3	6	
AS91566		Demonstrate understanding of a variety of extended written/or visual Samoan texts	3		5
AS91567		Write a variety of text types in clear Samoan to explore and justify varied ideas and prospective	3	5	

Subject leads to: - Tertiary Study.

MATHEMATICS

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NOTE:

All students should have met one on one with their Maths teacher to discuss their suitability for each course and a recommendation made to them. Please take this into account when choosing your options. If you have not met with your teacher, please go and see Miss Middleton for advice regarding options.

Maths is not compulsory for those who have gained level 1 numeracy.

Mathematics (MAT1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **18 CREDITS**

PREREQUISITES: - None. This course is available to all Y11 students. Students who gained level 1 numeracy in year 10 do not need to take this.

LEARNING ACTIVITIES: - This course focuses on algebra.

Cost/Equipment: - Scientific calculator – can be purchased at the book shop.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91026	N	Apply numeric reasoning in solving problems	1	4	
AS91027	N	Apply algebraic methods in solving problem (No Calculators)	1		4
AS91028	N	Investigate relationships between tables, equations or graphs	1		4
AS91029	L/N	Apply linear algebra in solving problems	1	3	
AS91032	L/N	Apply right-angled triangles in solving measurement problems.	1	3	

Subject leads to: - MAT2U, then on to CAL3U and/or MAT3U

Mathematics (MAT2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **17 CREDITS**

PREREQUISITES: - Students must have sat MAT1U in year 11. Students must have level 1 numeracy and must have passed at least 1 external exam in year 11. This course cannot be taken by students who did MAT1C in year 11.

LEARNING ACTIVITIES: - The course focuses on Algebra and does not cover any statistics standards.

COSTS/EQUIPMENT: - Scientific Calculator is mandatory. A graphical calculator will make exams easier for the student.

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91256		Apply co-ordinate geometry methods in solving problems	2	2	
AS91257		Apply graphical methods in solving problems	2	4	
AS91261		Apply algebraic methods in solving problems	2		4
AS91262		Apply calculus methods in solving problems	2		5
AS91269		Apply systems of equations in solving problems	2	2	

Subject leads to: - CAL3U and/or MAT3U, then on to University studies in the fields of Engineering, Mathematics and Statistics, Sciences, Commerce, etc.

Mathematics (MAT3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **17 CREDITS**

PREREQUISITES: - Must have sat MAT2U in year 12. Must have passed internal exams and at least one external exam in MAT2U.

LEARNING ACTIVITIES: - This course combines statistics and algebra.

COSTS/EQUIPMENT: - Scientific Calculator is mandatory. A graphical calculator will make exams easier for the student.

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91581		Investigate Bivariate Measurement Data	3	4	
AS91574		Apply linear programming methods in solving problems	3	3	
AS91575		Apply trigonometric methods in solving problems	3	4	
AS91578		Apply differentiation methods in solving problems	3		6

Subject leads to: - This course is useful for students intending to continue University study in the fields of Commerce, Sciences and Social Studies as well as in Mathematics and Statistics.

Calculus (CAL3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **21 CREDITS**

PREREQUISITES: - Students must have passed all internal and external exams in MAT2U. These must have been passed at a merit or excellence standard. Students need to have permission from HOD and their MAT2U teacher to take this course. Students must have attendance of at least 90% in level 2 to take this course.

LEARNING ACTIVITIES: - Students need to have a firm grasp of Algebraic manipulation skills as this course depends largely on connections made between Algebraic concepts and application. Success in this course is a prerequisite for University study of Engineering, Mathematics and some of the Commerce and Science disciplines. How students achieve on the first internal assessment and practice for the first external assessment will dictate whether they can remain on the course. Students may choose to sit one external assessment, in which case they will transfer from CAL3U to MAT3U during the academic year. Weekly tutorials are compulsory.

COSTS/EQUIPMENT: - Graphical Calculator

CREDITS

Standard	W/R	Title	Level	Int	Ext
AS91575		Apply trigonometric methods in solving problems	3	4	
AS91579		Apply integration methods in solving problems	3		6
AS91577		Apply the algebra of complex numbers in solving problems	3		5
AS91578		Apply differentiation methods in solving problems	3		6

Subject leads to: - University studies in the fields of Engineering, Mathematics and Statistics, Sciences, Commerce, etc.

PHYSICAL EDUCATION AND HEALTH

Year 11 Physical Education (PED1U) Alternative

LEVEL 1: - NCEA Level 1 Achievement Standards: **MINIMUM 18 CREDITS - MAXIMUM 23 CREDITS with Achievement Standards continued from Year 10**

PREREQUISITES: - It is advisable to have completed Year 10 Physical Education to an acceptable standard in terms of attitude and participation. However, students who opt for PED1U will continue to work on Achievement Standard 90962 and/or 90964 because they were either not attempted or not achieved in year 10 when they were first offered.

LEARNING ACTIVITIES: - Students will participate in a wide range of team and individual activities as well as spending time in the classroom completing theoretical content and assessment booklets. All assessment tasks involve written work. Outdoor Education trips are related to achievement standard 90968 and costs are involved (see below).

Cost/Equipment: - \$30.00 for Outdoor Education activities.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS90962		Participate actively in a variety of physical activities and explain factors the influence own participation (Year 10)	1	5	
AS90964		Demonstrate quality movement in the performance of a physical activity (Year 10)	1	3	
AS90966	L	Demonstrate interpersonal skills in a group and explain how these skills impact on others	1	4	
AS90967	L	Demonstrate strategies to improve the performance of physical activity and describe the outcomes	1	3	
AS90968	L	Demonstrate and show understanding of responsible behaviour for safety during outdoor education activities	1	3	
AS90969		Take purposeful action to assist others to participate in physical activity	1	2	
AS90970	L	Demonstrate self-management strategies and describe the effects on participation in physical activity	1	3	

Subject leads to: - PED2U and PED3U.

Year 11 Physical Education Studies (PES1U) Academic

LEVEL 1: - NCEA Level 1 Achievement Standards: **20 CREDITS**

PREREQUISITES: - It is advisable to have completed Year 10 Physical education to an acceptable standard. Students who are also confident readers and writers will have success in this course.

LEARNING ACTIVITIES: - Students will participate in a wide range of team and individual activities, as well as learning about the function of the body including anatomy and biomechanics. Students will be required to spend periods in the classroom completing theoretical content and assessment booklets. All assessment tasks involve written work. Outdoor Education trips are related to achievement standard 90968 and costs are involved (see below).

Cost/Equipment: - \$30.00 for Outdoor Education activities.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS90963	L	Demonstrate understanding of the function of the body as it relates to the performance of physical activity	1	5	
AS90966	L	Demonstrate interpersonal skills in a group and explain how these skills impact on others	1	4	

AS90967	L	Demonstrate strategies to improve the performance of physical activity and describe the outcomes	1	3	
AS90968	L	Demonstrate and show understanding of responsible behaviour for safety during outdoor education activities	1	3	
AS90969		Take purposeful action to assist others to participate in physical activity	1	2	
AS90970	L	Demonstrate self-management strategies and describe the effects on participation in physical activity	1	3	

Subject leads to: - PES2U, PED2U and PED3U alternative or SPA3U.

Year 11 Health (HLT1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **20 CREDITS**

PREREQUISITES: - It is advisable to have completed Year 10 Health to an acceptable standard. Students who are confident readers and writers will have success in this course.

LEARNING ACTIVITIES: - Students will start to develop and apply knowledge on major health issues that affect adolescence in New Zealand including sexuality, drug education and maintaining friendships. They will work on developing strategies for maintaining good personal health and wellbeing, managing change, how to develop interpersonal skills to enhance all types of relationships including sexual relationships and finally address issues relating to adolescent drug use.

Cost/Equipment: - (nil)

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS90971	L	Take action to enhance an aspect of personal well-being	1	3	
AS91097	L	Demonstrate understanding of ways in which well-being can change and strategies to support well-being	1	4	
AS90973	L	Demonstrate understanding of interpersonal skills used to enhance relationships	1	5	
AS90974	L	Demonstrate understanding of strategies for promoting positive sexuality	1	4	
AS90975	L	Demonstrate understanding of issues to make health-enhancing decisions in drug-related situations	1		4

Subject leads to: - HLT2U and HLT3U.

Year 12 Physical Education (PED2U) Alternative

LEVEL 2: - NCEA Level 2 Achievement Standard: **20 CREDITS**

PREREQUISITES: - It is advisable to have completed PED1U to an acceptable standard; otherwise students will need to gain permission from the HOD to do this course. If you choose this option, you **cannot** do Year PES2U.

LEARNING ACTIVITIES: - This course provides you with opportunities to participate, coach and teach sporting activities to small groups. You will also learn about social responsibilities and develop confidence in team building activities. Each assessment is a Level 2 achievement standard and requires written work, class time, learning and writing notes. Outdoor Education trips are related to achievement standard 91333 and 91334, and costs are involved (see below).

Cost/Equipment: - \$30.00 for Outdoor Education activities.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91329	L	Demonstrate understanding of the application of biophysical principles to training for physical activity	2	4	
AS91330		Perform a physical activity in an applied setting	2	4	

AS91333	L	Analyse the application of risk management strategies to a challenging outdoor activity	2	3	
AS91334		Consistently demonstrate social responsibility through applying a social responsible model in physical activity	2	3	
AS91335	L	Examine the implication and outcome(s) of a physical activity event or opportunity	2	3	
AS91336	L	Analyse group processes in physical activity	2	3	

Subject leads to: - PED3U, SPA3U, Tertiary courses in Sport, Outdoor and Physical Education.

Year 12 Physical Education Studies (PES2U) Academic

LEVEL 2: - NCEA Level 2 Achievement Standards: **MINIMUM 22 CREDITS - MAXIMUM 26 CREDITS with optional Achievement Standard**

PREREQUISITES: - It is advisable to have completed Year 11 PES1U to an acceptable standard; otherwise students will need to gain permission from the HOD to do this course. If you choose this option, you **cannot** do Year 12 PED2U.

LEARNING ACTIVITIES: - Year 12 Academic PES2U studies the theoretical practical aspects of Sport, Fitness and Leadership including anatomy and biomechanical principles. There is considerable written work and you are expected to attend all classes and complete all assessment tasks. An Outdoor Education trip is related to achievement standard 91333 and costs are involved (see below).

Cost/Equipment: \$30.00 for Outdoor Education activities.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91331	L	Examine the significance for self, others and society of a sporting event, a physical activity or a festival (optional)	2	4	
AS91328	L	Demonstrate understanding of how and why biophysical principals relate to learning of physical skills	2	5	
AS91329	L	Demonstrate understanding of the application of biophysical principal to training for physical activity	2	4	
AS91330		Perform a physical activity in an applied setting	2	4	
AS91334		Consistently demonstrate social responsibility through applying a social responsible model in physical activity	2	3	
AS91335	L	Examine the implementation and outcome(s) of a physical activity event or opportunity.	2	3	
AS91366	L	Analyse group processes in physical activity	2	3	

Subject leads to: PED3U or SPA3U, Tertiary courses in Sport, Outdoor and Physical Education.

Year 12 Health (HLT2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **20 CREDITS**

PREREQUISITES: - It is advisable to have completed HLT1U to an acceptable standard, otherwise students will need to gain permission from the HOD to do this course.

LEARNING ACTIVITIES: - Students will continue to develop their knowledge on the concepts of health promotion and those issues that affect adolescent health such as sexuality, alcohol, relationships, body image and mental health. They will look in-depth at an adolescent health issue and how society influences this, look at the importance of resiliency in everyday life and strategies to promote good mental health. They will look at the media advertising and other factors that influence how we perceive male and female gender in society. Students must also be prepared to help organise and run a school wide health promotion event.

Cost/Equipment: - (nil)

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91235	L	Analyse an adolescent health issue	2		5
AS91236	L	Evaluate factors that influence people's ability to manage change	2	5	
AS91237	L	Take action to enhance an aspect of peoples well-being within the school or wider community	2	5	
AS91239	L	Analyse issues related to sexuality and gender to develop strategies for addressing the issues	2	5	

Subject leads to: - HLT3U.

Year 13 Physical Education (PED3U) Alternative

LEVEL 3: - NCEA Level 3 Achievement Standards: **CREDITS 19**

PREREQUISITES: - It is advisable to have completed PES2U or PED2U to an acceptable standard, otherwise students will need to gain permission from the HOD to do this course.

If you choose this option, you **cannot** do SPA3U

LEARNING ACTIVITIES: - This course comprises of a number of Level 3 Achievement Standards. Key areas of focus are fitness programme planning and review, safety management in the outdoors, planning strategies for and participating in an overnight outdoor education activity, performing a physical skill and planning, organising and delivering coaching practice sessions using different leadership styles. Outdoor Education trips are related to achievement standard 91504 and 91789, and costs are involved (see below).

Cost/Equipment: Approx. \$30

CREDITS

Standard	R/W	L/N	Title	Level	Int	Ext
AS91500	R	L&N	Evaluate the effectiveness of a performance improvement programme	3	4	
AS91501		N	Demonstrate quality performance of a physical activity in an applied setting	3	4	
AS91504	R	L	Analyse issues in safety management for outdoor activity to devise safety management strategies	3	3	
AS91499		L	Analyse a physical skill performed by self or others	3	3	
AS91789			Devise strategies for a physical activity outcome	3	4	

Subject leads to: Tertiary courses in Outdoor and Physical Education at Auckland University of Technology and MIT (Manukau Institute of Technology).

Level 3 Sports Academy (SPA3U) Academic

LEVEL 3: - NCEA Level 3 Achievement Standard: **19 CREDITS**

PREREQUISITES: - Students must apply in writing to the HOF of Physical Education, should they wish to take this course. Selection on this course means you will be unable to take PED3U. Only students that meet the following criteria will be considered:

- Students choosing this subject have to be a member of a premier sports team within the school and/or be at representative level in their chosen sport.
- Students must be able to display a high level of attendance (85%)
- Students must wear the school PE gear with pride during all practical activities.

LEARNING ACTIVITIES: - this course is for students that wish to pursue a pathway in high performance sport. You will be required to:

- Consistently deliver a high level performance in your chosen sport.
- Plan, implement and review personal fitness programmes in relation to your chosen sport.
- Biomechanically analyse and appraise the skills in your chosen sport.
- Plan, organise and deliver coaching practice sessions in your chosen sport using different leadership styles.
- Attend a number of trips and activities relating to high performance in their field of sport and physical activity.

Students will have the opportunity to visit a number of high performance facilities in the community and costs are involved (see below).

Cost/Equipment: \$20 for trips.

CREDITS

Standard	R/W	L/N	Title	Level	Int	Ext
AS91498		L&N	Evaluate physical activity experiences to devise strategies for lifelong well-being	3	4	
AS91499		L	Analyse a physical skill performed by self or others	3	3	
AS91500	R	L&N	Evaluate the effectiveness of a performance improvement programme	3	4	
AS91501		N	Demonstrate quality performance of a physical activity in an applied setting	3	4	
AS91505	R	L	Examine contemporary leadership principals applied in physical activity contexts	3	4	

Subject leads to: - Tertiary courses in Sport and Physical Education, also related areas such as Physiotherapy and Rehabilitation at Auckland University of Technology (AUT) and Auckland and Otago University.

Level 3 Health (HLT3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **19 CREDITS**

PREREQUISITES: - It is advisable to have completed HLT2U to an acceptable standard, otherwise students will need to gain permission from the HOD to do this course.

LEARNING ACTIVITIES: - Students will continue to develop and apply their knowledge on issues that affect adolescent health in New Zealand society. Students will need to be able to express themselves well in all written work and have excellent research skills as they be will focussing on; the effect of methamphetamine use in New Zealand society, western medicine and holistic treatments to cure a health issue and finally analysing a contemporary ethical dilemma (including euthanasia, abortion, IVF) in relation to wellbeing and models of health promotion. This subject can lead to Health Science at University and other pre-degree programmes and is a University Entrance subject. Costs are involved for a field trip and/or guest speaker (see below).

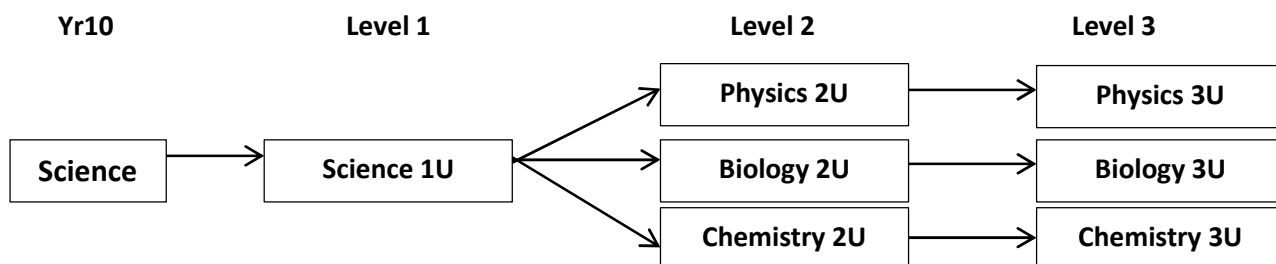
Cost/Equipment: - \$10

CREDITS

Standard	R/W	L/N	Title	Level	Int	Ext
AS91461	R	L	Analyse a New Zealand Health Issue	3	5	
AS91465	R&W	L	Evaluate models for health promotion	3		5
AS91463	R	L	Evaluate health practices currently used in NZ	3	5	
AS91464	R	L	Analyse a contemporary ethical issue in relation to well-being	3	4	

Subject leads to: Tertiary Health Science fields at Auckland University of Technology (AUT) and Auckland and Otago University.

SCIENCE



SCIENCE (SCI1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **20 Credits**

PREREQUISITES: - None

LEARNING ACTIVITIES: - This is great for students who wish to continue with their science education into Year 12 and 13. Students will focus on the three areas of Biology, Chemistry and Physics.

An understanding of science is essential for careers and future opportunities in many areas of university study. Future careers would include doctors, engineers, pilots; more and more jobs require students to have studied science. It also prepares students who wish to take two or three sciences in Years 12 and 13.

COURSE TRIP: - Science career field trips across range of local industries tbc.

ENRICHMENT ACTIVITIES: - Guest speakers from Future in tech, science lectures, Robotics Club

CREDITS 20

Standard	L/N	Title	Level	Int	Ext
AS 90937 physics 1.3	N	Demonstrate an understanding of aspects of mechanics	1		4
AS 90944 science 1.5	L	Demonstrate an understanding of aspects of acids and bases	1		4
AS 90948 Science 1.9	L	Demonstrate an understanding of biological ideas relating to genetic variation.	1		4
AS 90935 Physics 1.1	N	Carry out a practical physics investigation that leads to a linear mathematical relationship, with direction	1	4	
AS90930 Chemistry 1.1	N	Carry out a practical chemistry investigation, with direction	1	4	
<i>Optional</i> AS90940 Science 1.1	N	<i>Demonstrate understanding of aspects of mechanics</i>	1		4

Subject leads to: - NCEA Level 2 Biology 2U, Chemistry 2U and Physics 2U. **To study Level 2 Physics students must have completed the Mechanics (90940) and electricity (90944) external in Sci 1U. Science endorsement available.**

Biology (BIO2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **18 Credits**

PREREQUISITES: - At least 12 credits in Level 1 Science or with the approval of the HOD.

LEARNING ACTIVITIES: - This course aims to provide appreciation of the complexity, diversity and unique features of animals and plants. Students will develop their appreciation of New Zealand environments so that they are well placed to make informed decisions on Biological issues.

Specific biological skills such as observation and data collection are developed through field work, experimental design and practice. The topics covered prepare students for the increased focus on the role of genetics in a modern world. By studying biology, students learn to make more informed decisions about their own health and about significant biological issues such as genetically modified crops, the use of antibiotics, and the eradication of invasive species. Biology helps students to recognise the importance of agriculture and horticulture for New Zealand, and, potentially, to contribute to its future.

COURSE TRIP: - Goat Island Marine Discovery Centre

ENRICHMENT ACTIVITIES: - Guest speakers, STEM Careers Fair, Metagenomics Day, NZ International Biology Olympiad

CREDITS 18

Standard	L/N	Title	Level	Int	Ext
AS91154	L	Analyse the biological validity of information presented to the public.	2	3	
AS 91153	L	Investigate a pattern in an ecological community.	2	4	
AS 91155	L	Demonstrate an understanding of adaptation of plants or animals to their way of life.	2	3	
AS 91157	L	Demonstrate an understanding of genetic variation and change	2		4
AS 91156	L	Demonstrate an understanding of life processes at the cellular level	2		4

Subject leads to: - Biology Level 3U

Chemistry (CHE2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **19 Credits**

PREREQUISITES: - At least 12 credits in Level 1 Science or with approval of the HOD

LEARNING ACTIVITIES: - The course covers: Atomic structure and bonding, carbon chemistry, thermo-chemistry and equilibrium, reduction and oxidation, volumetric analysis, qualitative chemistry, and calculations involving chemical quantities. Chemistry is an essential subject for careers in health including pharmacy, engineering, environmental monitoring, food technology and many other jobs. Chemistry is often referred to as the central science because it joins together physics and mathematics, biology and medicine, and the earth and environmental sciences.

COURSE TRIP: - Glenbrook Steel Mill

ENRICHMENT ACTIVITIES: - Guest speakers from Futurintech, STEM Careers Fair, International Chemistry Quiz, Robotics Club, Engineering Taster Week, Metagenomics Day @ Massey University.

CREDITS 19

Standard	L/N	Title	Level	Int	Ext
AS 91164	L	Demonstrate an understanding of bonding, structure, properties and energy changes.	2		5
AS 91911		Carry out an investigation into chemical species present in a sample using qualitative analysis.	2	3	
AS 91165	L	Demonstrate an understanding of the properties of selected organic compounds.	2		4
AS 91167		Demonstrate an understanding of oxidation – reduction	2	3	
AS 91910	N	Carry out a practical investigation into a substance present in a consumer product using quantitative analysis.	2	4	

Subject leads to: - Chemistry Level 3U

Physics (PHY2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **19 Credits**

PREREQUISITES: - At least 12 credits in Level 1 SC1 Science or at the discretion of the HOD.

RECOMMENDED: to take MAT2U

LEARNING ACTIVITIES: - Why Study Physics? Physics helps us to organize the universe. It deals with fundamentals, and helps us to see the connections between seemingly phenomena. Physics gives us powerful tools to help us to express our creativity, to see the world in new ways and then to change it. Physics is the basis for most modern technology, and for the tools and instruments used in scientific, engineering and medical research and development. This course covers: electricity and magnetism and mechanics. You will apply your knowledge to calculating problems and using the theory to explain various situations.

COURSE TRIPS: - MOTAT (Museum of Transport and Technology)

ENRICHMENT ACTIVITIES: - Guest speakers, Metagenomics Day, Robotics Club

Standard	L/N	Title	Level	Int	Ext
AS 91171	L & N	Demonstrate understanding of mechanics	2		6
AS 91169	L	Demonstrate understanding of physics relevant to a selected context	2	3	
AS 91173	L & N	Demonstrate understanding of electricity and electromagnetism	2		6
AS 91168	L & N	Carry out a practical physics investigation that leads to a non-linear mathematical relationship	2	4	

CREDITS 19

Subject leads to: - Year 13 Physics 3U

Biology (BIO3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **19 Credits**

PREREQUISITES: - At least 11 credits in Biology NCEA Level 2 or with the approval of the HOD.

LEARNING ACTIVITIES: - The course aims to provide a sound knowledge of responses of plants and animals to their external environment, human evolution, homeostasis, and its biological implications. There is also a practical component where students will be investigating one of the contexts they learn in the animal and plant external in more detail. It will also strengthen your report writing skills needed at tertiary level.

COURSE TRIPS: - Auckland Zoo for Human Evolution lecture.

ENRICHMENTS ACTIVITIES: - Work experience opportunities at local hospital, Guest speakers, Metagenomics Day, Biology Scholarship NZ International Biology Olympiad.

CREDITS 19

Standard	Title	Level	Int	Ext
AS 91601	Carry out a practical investigation in a biological context, with guidance	3	4	
AS 91603	Demonstrate an understanding of the responses of plants and animals to their external environment	3		5
AS 91606	Demonstrate an understanding of trends in human evolution	3		4
AS 91604	Demonstrate understanding of how an animal maintains a stable internal environment	3	3	

AS 9160	Integrate <i>biological</i> knowledge to develop an informed response to a socio-scientific issue	3	3	
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Subject leads to: - University Study

Chemistry (CHE3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **19 Credits**

PREREQUISITES: - At least 12 credits in NCEA Level 2 Chemistry or with the approval of the HOD

LEARNING ACTIVITIES: - Chemistry touches our lives almost everywhere and every day, in medicine, the clothes we wear, and the games we play, as well as the industries that make the things we use. The periodic table and simple compounds are covered as well as the basics of chemistry.

The course covers: atomic structure, thermochemical principles, organic, redox and practical investigations where students examine the composition of various substances and the changes they can go through.

This is a complete up-to-date course on chemistry designed to prepare students for studies in chemistry at a tertiary level. This course follows the same topic outline as year 12 chemistry course. Throughout the course, students are expected to achieve a good level of understanding in theory, calculations and laboratory skills.

COURSE TRIPS: - Waihi Gold Mine

ENRICHMENT ACTIVITIES: - Guest speakers, Metagenomics Day, Chemistry Scholarship

CREDITS 19

Standard	Title	Level	Int	Ext
AS 91393	Demonstrate an understanding of oxidation-reduction processes	3	3	
AS 91391	Demonstrate an understanding of the properties of organic compounds	3		5
AS 91388	Demonstrate an understanding of spectroscopic data in chemistry	3	3	
AS 91389	Demonstrate an understanding of the chemical processes in the world around us	3	3	
AS 91390	Demonstrate an understanding of thermochemical principles and the properties of particles and substances	3		5

Subject leads to: - University study

Physics (PHY3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **19 Credits**

PREREQUISITES: - At least 12 credits in NCEA Level 2 Physics or with the approval of the HOD

RECOMMENDED: to take MAT3U or CAL3U

LEARNING ACTIVITIES: - the two externals that will be covered in class are mechanical systems and electrical systems. There is a potential to enter in the waves external but this will need to be approved by the HOD and will be studied outside of the classroom with some guidance provided in tutorials.

Why do Physics? Physics helps us to explain the world around us and thus is interesting in its own right. It also provides the scientific basis for our understanding of many aspects of science and modern technology. One of the reasons physics is in demand from employers is that it helps students learn how to think clearly and figure things out for themselves when they are confronted with unfamiliar situations. It also provides students with strong practical skills.

COURSE TRIPS: - Rainbow's End – Mechanics In Action activity

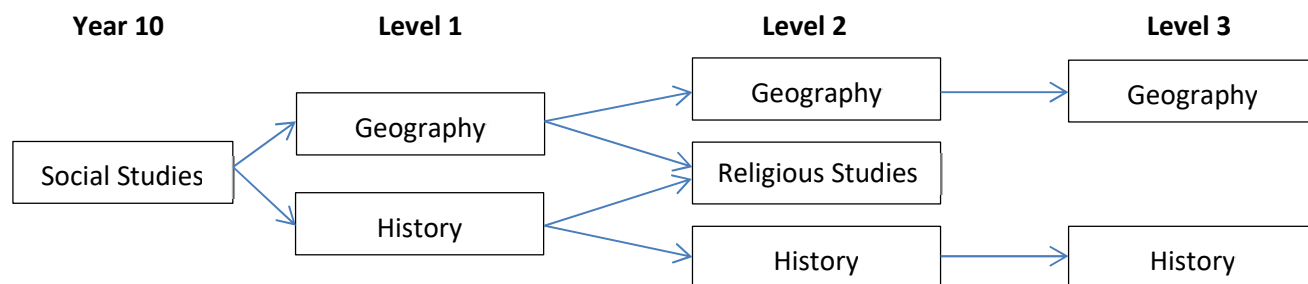
ENRICHMENT ACTIVITIES: - Guest speakers, Metagenomics Day, Robotics Club, Women in Engineering Buddy Programme, EPro8 Engineering Challenge, Engenuity Day, Waikato Uni Experience Engineering Day

CREDITS 20

Standard	Title	Level	Int	Ext
AS 91521	Carry out a practical investigation to test a physics theory relating two variables in a non-linear relationship	3	4	
AS 91522	Demonstrate understanding of the application of physics to a selected context	3	3	
AS 91524	Demonstrate an understanding of mechanical systems	3		6
AS 91526	Demonstrate an understanding of electrical systems	3		6

Subject leads to: - University study

SOCIAL SCIENCES



Geography (GEO1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **18 Credits**

PREREQUISITES: - None

LEARNING ACTIVITIES: - Geography is the study of the environment as the home of people. Year 11 Geography covers a range of topics including: extreme natural events such as earthquakes and tsunamis, global population, sustainability and conducting geographic research. Geography is open to most year 11 students, and is a continuation from Year 10 Social Studies, together with History. Possible field trips scheduled.

Standard	L/N	Title	CREDITS		
			Level	Int	Ext
AS91007	L	Demonstrate Geographic understanding of environments that have been shaped by Extreme natural events	1		4
AS91008	L	Demonstrate Geographic understanding of population concepts	1		4
AS91011	L/N	Conduct geographic research, with direction	1	4	
AS91012	L	Describe aspects of a contemporary New Zealand geographic issue	1	3	
AS91013	L	Describe aspects of a Geographic topic at global scale	1	3	

Subject leads to: - Level 2 Geography and University study. This is a University approved course.

History (HIS1U)

LEVEL 1: - NCEA Level 1 and 2 Achievement Standards: **20 Credits**

PREREQUISITES: - None

LEARNING ACTIVITIES: - Year 11 History follows on from year 10 Social Studies and focuses on three major topics: Black Civil Rights, the Dawn Raids, and the 1981 Springbok Rugby Tour. Possible field trips.

Standard	L/N	Title	CREDITS		
			Level	Int	Ext
AS91001	L	Carry out an enquiry of an historical event, or place, of significance to New Zealanders	1	4	
AS91002	L	Demonstrate understanding of a historical event or place of significance to New Zealanders	1	4	
AS91004	L	Demonstrate understanding of different perspectives of people in a historical event of significance to New Zealanders	1	4	
AS91005	L	Describe the causes and consequences of a historical event	1		4
AS91006	L	Describe how a significant historical event affected New Zealand society	1		4

Subject leads to: - Level 2 History and University study. This is a University approved course.

Geography (GEO2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **19 Credits**

PREREQUISITES: - 14 or more credits in Level 1 Geography or HOD discretion

LEARNING ACTIVITIES: - This course follows on from themes and concepts in Level 1 Geography and will cover a range of topics: The Amazon rainforest, differences in development, global diseases, Urban Geography of Auckland and Chicago, and conducting geographic research.

CREDITS

Standard	R/W	Title	Level	Int	Ext
AS91240	R/W	Demonstrate Geographic understanding of a large natural environment	2		4
AS91241		Demonstrate Geographic understanding of an urban pattern	2	3	
AS91243	R/W	Demonstrate understanding of differences in development	2		4
AS91245		Conduct Geographic research with guidance	2	5	
AS91246		Explain aspects of a Geographic topic at a global scale	2	3	

Subject leads to: - Level 3 Geography. This is a University approved subject.

History (HIS2U)

LEVEL 2: - NCEA Level 2 Achievement Standard: **20 Credits**

PREREQUISITES: - 14 or more credits in History or English or HOD discretion

LEARNING ACTIVITIES: - This course follows on from Level 1 History concepts, and studies three main topics in depth under the theme "Passive Resistance": India's Journey to Independence, The Mau Movement in Samoa, and the Invasion of Parihaka.

CREDITS

Standard	R/W	Title	Level	Int	Ext
AS91230	R	Examine an historical event or place that is of the significance New Zealanders	2	5	
AS91232	R	Interpret different perspectives of people in an historical event that is of significance to New Zealanders	2	5	
AS91233	R/W	Examine causes and consequences of a significant historical event	2		5
AS91234	R/W	Examine how a significant historical event affected New Zealand society.	2		5

Subject leads to: - Level 3 History. This is a University approved course.

Religious Studies (RES2U)

LEVEL 2: NCEA Level 2 Achievement Standard: 18 credits

PREREQUISITES: - 14 or more credits in History, English or HOD discretion

LEARNING ACTIVITIES: - Religious Studies is the exploration of various religious traditions through a neutral and respectful framework. In an increasingly connected world, it is important for students to have knowledge of different belief systems and how they impact individuals, cultures, and society at large. In this course we will explore the rich history and traditions of the world's major faiths with a focus on Christianity, Judaism, and Islam in year 12. There is also the possibility for field trips.

Standard	R/W	Title	CREDITS	
			Level	Int
AS90822	R/W	Explain how a contemporary social action derives from the ethical principles of a religious tradition	2	6
AS91724	R/W	Explain a significant theme in a sacred text within a religious tradition	2	6
AS90823	R/W	Explain the key beliefs within two religious traditions in relation to a significant religious question.	2	6

Subject leads to: - Level 3 History/Geography. This is a University approved course.

Geography (GEO3U)

LEVEL 3: - NCEA Level 3 Achievement Standards: **19 Credits**

PREREQUISITES: - 14 or more credits in Level 2 Geography or HOD approval.

LEARNING ACTIVITIES: - This course builds on concepts taught in Level 2 Geography and focuses on a number of topics, including: Coastal geography in New Zealand, conducting geographic research and the process of Tourism Development and how it has affected different parts of the world.

COST/EQUIPMENT: - Field trip outside of Auckland approximately \$150 - \$200

Standard	R/W	Title	CREDITS		
			Level	Int	Ext
AS91426	R/W	Demonstrate understanding of how interacting natural processes shape a New Zealand geographic environment	3		4
AS91427	R/W	Demonstrate understanding of how cultural process shape a geographic environments	3		4
AS91430		Conduct geographic research with consultation	3	5	
AS91431	R	Analyse aspects of a contemporary geographic issue	3	3	
AS91432		Analyse aspects of a geographic topic at a global scale	3	3	

Subject leads to: - University Study. This is a University approved course.

History (HIS3U)

LEVEL 3: - NCEA Level 2 Achievement Standard: **22 Credits**

PREREQUISITES: - 14 or more credits in Level 2 History or HOD approval.

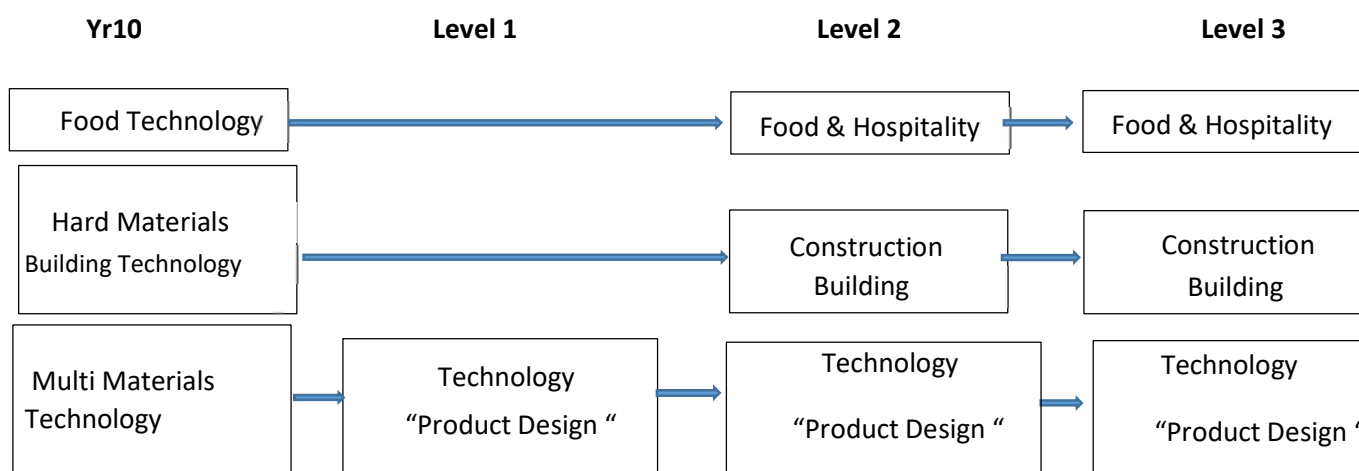
LEARNING ACTIVITIES: - This course builds on the skills and concepts developed in Level 2 History. A range of different topics based around 18th Century New Zealand History will be studied. Field trip outside Auckland.

Standard	R/W	Title	CREDITS		
			Level	Int	Ext
AS91435	R	Communicate and present historical ideas clearly to show understanding of an historical context	3	5	
AS91437	R	Analyse different perspectives of a contested event of significance to New Zealanders	3	5	

AS91438	R/W	Analyse the causes and consequences of a significant historical event	3		6
AS91439	R/W	Analyse a significant historical trend and the force(s) that influenced it			6

Subject leads to: - University Study. This is a University approved subject.

TECHNOLOGY



Product Design Technology (PDT1U)

LEVEL 1: - NCEA Level 1 Achievement Standard: **16 Credits**

PREREQUISITES: - None, although previous experience in a resistant materials technology course would be an advantage.

COURSE DESCRIPTION:

In this course, students learn how to design and manufacture products by working with various materials (wood, metal, plastics), components, tools, and equipment. They learn about technological development and the design principles involved in traditional and modern manufacturing industry. They learn about characteristics and performance properties of materials through on-going research and how techniques and process through testing and trialling are applied to achieve a high quality functional technological product. Students will also be collaborating with CAD, 3D printing, and Laser Cutting.

Assessments in this course are based on a collection of portfolio work. PDT1U Course is the recommended entry into PDT2U and at L3 is a university approved subject

Standard	Title	CREDITS		
		Level	Int	Ext
AS91046	Use design ideas to produce a conceptual design for an outcome to address a brief.	1	6	
AS91057	Implement basic procedures using resistant materials to make a specified product.	1	6	
AS91048	Demonstrate understanding of how technological modelling supports decision-making.	1		4

Subject leads to: - Product Design Technology – Level 2.

Construction Building (CBD2C)

LEVEL 2: - NCEA Level 2 Unit Standards: **26 Credits**

PREREQUISITES: - 15 or more credits at National Certificate in Building, Construction and Allied Trade Skills-Level 1

LEARNING ACTIVITIES: - The National Certificate in Building, Construction and Allied Trade Skills Level 2 focuses on the acquisition of theoretical and practical knowledge and skills that form the structural base of the qualification. The range, skills, and activities provide an opportunity for the students to develop a flexible approach to learning. The qualification also provides a range of structured workplace learning through work based learning programmes, where students can test future career and employment opportunities.

The project work will focus on Garden Furniture construction such as an outdoor plant box and a Kid's picnic table or similar.

CREDITS

Standard	Title	Level	Int
US12932	Construct timber garden furniture and items of basic construction equipment as a BCATS project	2	8
US24350	Identify, select, maintain, and use portable power tools for BCATS projects	2	6
US24354	Demonstrate knowledge of and apply safe working practices in a BCATS workplace	2	4
US24357	Receive instructions and communicate information in relation to BCATS projects	2	4
US24361	Apply mathematical processes to BCATS projects.	2	4

Food Hospitality (HOS2C)

LEVEL 2: - NCEA Level 2 Unit Standards: **18 Credits**

PREREQUISITES: - Open entry but basic knowledge and Y10 Hospitality experience preferred. **LEARNING ACTIVITIES:** - A basic knowledge of food preparation, cooking and service is covered with practical work being an important part of the course.

EQUIPMENT: Student must have closed covered shoes and clean uniform. No long or painted nails permitted. Hairnets and aprons will be provided. Students are required to manage raw and cooked meats.

CREDITS

Standard	Title	Level	Int
US167	Practise food safety methods in a food business	2	4
US13285	Handle and maintain knives in a commercial kitchen	2	2
US13271	Cook food items by frying	2	2
US13276	Cook food items by grilling	2	2
US17285	DKO of commercial espresso coffee equipment and prepare espresso beverages under supervision	2	4
US13283	Prepare and present salads for service	2	2
US13280	Prepare fruit and vegetable cuts	2	2

Subject leads to: - Tertiary courses in Food and Hospitality Services to sector related entry-level employment.

Product Design Technology (PDT2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **16 Credits**

PREREQUISITES: - Must have completed Y11 RMT with 14+ Credits and HOD Approval.

COURSE DESCRIPTION:

In this course, students learn how to design and manufacture products by working with various materials (wood, metal, plastics), components, tools, and equipment. They learn about technological development and the design principles involved in traditional and modern manufacturing industry. They learn about manufacturing processes and techniques to develop manufactured (multi units as well as one off) products while undertaking technological practice. Through on-going research and evaluation, they develop understanding of the role of materials and how to manipulate its capabilities to achieve a high quality functional technological product. Students will also be collaborating with CAD, 3D printing, and Laser Cutting. Assessments in this course are based on a collection of portfolio work. PDT2U is a compulsory course to enter PDT3U and at L3 is a university approved subject.

CREDITS

Standard	Title	Level	Int	Ext
AS91356 – AS 2.3	Develop a conceptual design for an outcome.	2	6	
AS91357 – AS 2.4	Undertake effective development to make and trial a prototype	2	6	
AS91358 – AS 2.5	Demonstrate understanding of how technological modelling supports risk management.	2		4

Subject leads to: - Product Design Technology Level 3

Construction Building (CBD3C)

LEVEL 3: - NCEA Level 3 Unit Standard: **26 Credits**

PREREQUISITES: - 10 or more credits at National Certificate in Building, Construction and Allied Trade Skills-Level 2

LEARNING ACTIVITIES: - The range and skills activities provide an opportunity for students to develop a flexible approach to learning. The qualifications also provide a range of structured workplace learning through work based learning programmes, where students can test future career and employment opportunities. This allows students to make informed decisions on their transition from school to work. Project work will be through Gateway Programme and students will be working on outdoor structures, furniture, or similar. Some previous projects: playhouses, chicken coops, painting work, garden edging, walkway etc.

COST/EQUIPMENT: - (nil)

CREDITS

Standard	Title	Level	Int
US29677	Safety	3	2
US29678	Materials	3	4
US29679	Documents	3	8
US29680	Collaborate	3	5
US29681	Measure and calculate	3	3
US29682	Tools	3	4

Subject leads to: - National Certificate in Building, Construction and Allied Trades Skills- Level 3

Product Design Technology (PDT3U)

LEVEL 3: - NCEA Level 3 Achievement Standard: **20 Credits**

PREREQUISITES: - Must have completed PDT2U with 14+ Credits and HOD Approval

COURSE DESCRIPTION:

In this course, students learn how to design and manufacture products by working with various materials (wood, metal, plastics), components, tools, and equipment. They learn about technological development and the design principles involved in traditional and modern manufacturing industry. They learn about social, environmental, and technical acceptance of products while undertaking technological practice. Through on-going research, testing, trialling and evaluation, they apply their technological knowledge to achieve a high quality functional technological product. Students will also be collaborating with CAD, 3D printing, and Laser Cutting. PDT3U is a university-approved subject.

Project Options:

1. Electric Kart/trike/cycle
2. Modern Furniture.
3. Street Furniture.

Standard	Title	CREDITS		
		Level	Int	Ext
AS 91608 – AS 3.1	Undertake brief development to address an issue within a determined context.	3	4	
AS91611- - AS 3.4	Develop a prototype considering fitness for purpose in the broadest sense.	3	6	
AS91620 – AS 3.20	Implement complex procedures to integrate parts using resistant materials to make a specified product.	3	6	
AS91612 – AS 3.5	Demonstrate understanding of how technological modelling supports technological development and implementation.	3		4

Food Hospitality (HOS3C)

LEVEL 3: - NCEA Level 3 Unit Standard: **33 Credits**

PREREQUISITES: - Year 12 Hospitality is recommended. **MUST** have US167 through either Level 2 hospitality or Gateway programme. HOD permission required if you do not have these prerequisites.

LEARNING ACTIVITIES: - This course is practical based where students will learn a variety of cookery skills. The expectation is that the students are available to take part in numerous catering events, which may or may not be held during school time. Assessments will be both practical and theory based.

Note: This is a ten periods course per week instead of the normal five periods and the total credits available is reflected accordingly.

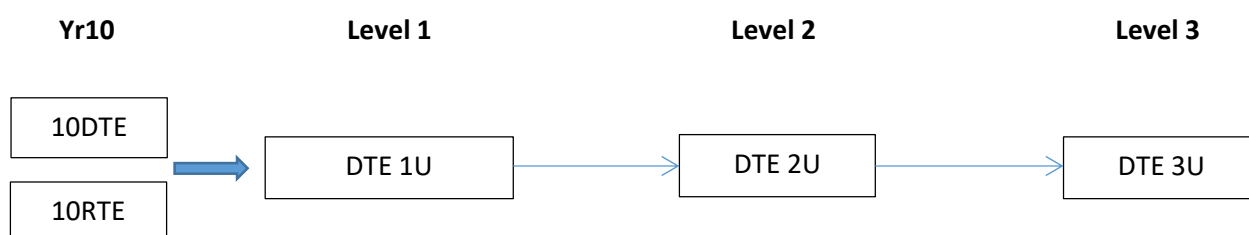
EQUIPMENT: - Covered shoes, clean and tidy uniform. NO painted or long fingernails. Aprons and hairnets will be provided. Students are required to manage raw and cooked meats.

Standard	Title	CREDITS	
		Level	Int
US13282	Prepare, assemble, and present complex sandwiches for service in a commercial kitchen	3	2
US13325	Prepare and bake basic cakes, sponges, and scones in a commercial kitchen	3	4
US13315	Prepare and cook rice and farinaceous dishes in a commercial kitchen	3	6
US13288	Prepare and cook basic meat dishes in a commercial kitchen	3	8

US13316	Prepare and cook basic pasta dishes in a commercial kitchen	3	3
US13293	Prepare and cook basic vegetable dishes in a commercial kitchen	3	6
US13314	Prepare and cook egg dishes in a commercial kitchen	3	4

Subject leads to: - Tertiary courses in Food and Hospitality Services to sector related entry-level employment.

DIGITAL TECHNOLOGY



Digital Technologies (DTE1U)

LEVEL 1: - NCEA Level 1 Achievement Standards: **19 Credits**

PREREQUISITES: - None but Year 10 Digital Technologies would be an advantage

LEARNING ACTIVITIES: - Digital Technologies impact on every aspect of our lives and are vitally important to New Zealand growth in the 21st century. Students in New Zealand need opportunities to develop knowledge and skills with digital technologies, so they are equipped to respond to rapid changes in our society.

Students will strengthen core knowledge related to the management of digital information, including ethical issues relating to use of digital information and the key features of operating systems and application software. Students will develop skills and knowledge of tools and techniques in the areas of digital information, Model and 3D Printing and Robotics. Students will apply knowledge and skill as they are engaged in technological practice to develop their robotics prototype.

In this course students will work towards gaining course endorsement for Digital Technologies.

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91881	L	Develop an electronics outcome	1	6	
AS91883	L	Develop a computer program	1	4	
AS91047	L	Undertake development to make a prototype to address a brief	1	6	
AS91878	L	Develop a design for a digital outcome	1	3	

Subject leads to: - NCEA Level 2 and Level 3 Digital Technologies

Digital Technologies (DTE2U)

LEVEL 2: - NCEA Level 2 Achievement Standards: **19 Credits**

PREREQUISITES: - None

LEARNING ACTIVITIES: - Students will further develop their knowledge of Digital Technologies gained in Level 1. Students will learn to design a mobile App to control/measure/tele operate and monitoring a remote system. Solve a real problem using digital outcome; Design principles and their application; Mechanical modelling techniques and 3D Printing; Sensors for Internet of Things; Electronics processors; Mobile Programming

CREDITS

Standard	L/N	Title	Level	Int	Ext
AS91891	L	Apply conventions to develop a design for a digital technologies outcome	2	6	
AS91894	L	Use advanced techniques to develop an electronics outcome	2	6	
AS91896	L	Use advanced programming techniques to develop a computer program	2	6	
AS91357	L	Undertake effective development to make and trial a prototype	2	3	

Digital Technologies (DTE3U)

LEVEL 3: - NCEA Level 3 Achievement Standard: **17 Credits**

PREREQUISITES: - Level 1 numeracy and literacy, or HOD approval. Level 2 Digital Technologies is an advantage but not compulsory.

LEARNING ACTIVITIES: - Students will further develop their knowledge of Digital Technologies gained in Level 2. Students will learn to design and Mechatronics system using embedded computing (A.I algorithms); Design principles and their application; 3D modelling and assemble techniques; embed computers; Advance programing Electronics using embed computers.

COST/EQUIPMENT: - (nil)

CREDITS

Standard	R/W	Title	Level	Int	Ext
AS91909	W	Present a reflective analysis of developing a digital outcome	3	3	
AS91907	R/W	Use complex processes to develop a digital technologies outcome	3	6	
AS91900	W	Conduct a critical enquiry to propose a digital technologies outcome	3	6	
AS91903	R/W	Use complex techniques to develop a digital media outcome	3	4	

Subject leads to: - Further study in computing and related fields. This is a **university approved subject**.