

ŌTĀHUHU COLLEGE



Senior Option Booklet 2025

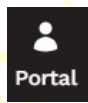


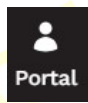
Otago College Option Selection Instructions

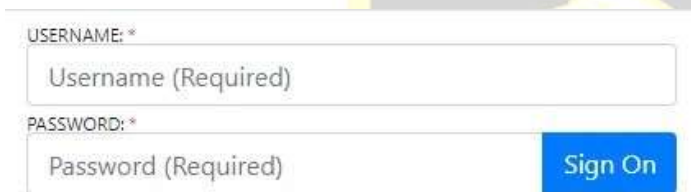
All Student Options will be selected via the Otago College Kamar Portal.

To select your Options for next year:

1. Log in to our school website <https://www.otahuhucollege.school.nz/>



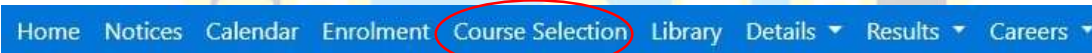
2. Click on the  icon on the top of the page.
3. Type in your Username and Password and then click on 'Sign On':



USERNAME: *
Username (Required)

PASSWORD: *
Password (Required)

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:

Ōtāhuhu College students work towards the following Qualifications at each Year Level:

1. Year 11 (Level 1)

The purpose of Year 11 is to provide students with the depth of understanding and the skills to successfully cope with Level 2 and 3 in the following years. Each subject will offer one Level 1 standard (dispensation may be granted by the Principal to offer more).

Subjects may offer one or two Level 2 standards.

➤ **Passing Year 11:**

- ✓ Level 1 Literacy (10 credits) and Numeracy (10 credits) co-requisites
- ✓ 80% half day present or more
- ✓ Engagement grade average of 3 or more
- ✓ Participation in extra-curricular activities

➤ **Year 11 with Distinction**

- ✓ Literacy (10 credits) and Numeracy (10 credits)
- ✓ 90% half day present or more
- ✓ Engagement grade average of 4 or more
- ✓ Participation in extra-curricular activities
- ✓ Merit and Excellence Level pass in all subjects

2. Year 12 (Level 2)

- ✓ 60 credits from Level 2 or above
- ✓ + Level 1 Literacy and Numeracy co-requisites

3. Year 13 University Entrance (Level 3/UE)

- ✓ 60 credits from Level 3 or above
- ✓ This must include 14 credits in EACH of THREE APPROVED subjects*
- ✓ + Level 1 Literacy and Numeracy co-requisites

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.

NOTE: At Ōtāhuhu College a course endorsement will only be available for Level 2 and Level 3 NCEA.

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

- 14 or more credits at Excellence = EXCELLENCE Endorsement
- 14 or more credits at Merit (or Merit and Excellence) = MERIT Endorsement
- 14 or more credits at Achieved = ACHIEVED Endorsement

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 the specified corequisite standards or special unit standards in literacy and numeracy. During 2024 and 2025, learners will be able to meet the 20-credit co-requisite through achieving either the new standards in Literacy-Writing, Literacy-Reading, Numeracy, Te Reo Matatini, and Pāngarau or gaining 20 credits from a small list of literacy and numeracy-rich standards. From 2024, to be awarded any level of NCEA, learners will need to achieve the new 20-credit co-requisite.

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/reports 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

University Entrance is the highest Qualification you can gain at Otahuhu College. 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. 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 (refer to selected standards/subjects*) 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 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 (*selected standards/subjects) 5 credits at Level 2 or above in Writing (*selected standards/subjects) |

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 | Geography | Production Design |
| Biology | Health | Religious Studies |
| Calculus | History | Samoan |
| Chemistry | Food Technology | Science |
| Dance | Mathematics | Te Reo Māori |
| Digital Technologies | Music | Tongan |
| Drama | Physical Education | Visual Arts |
| Economics | Physics | Whakairo |
| English | Multi Materials Technology | |

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.

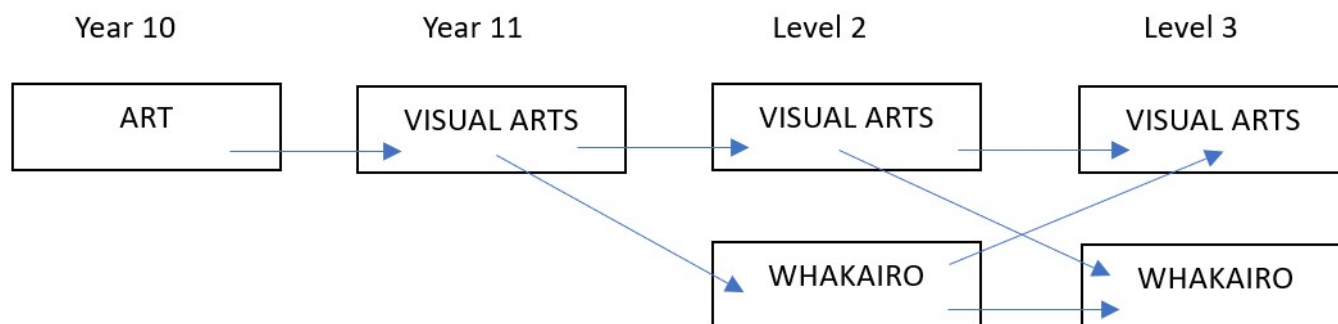
Universities publish Preferential/Guaranteed Entry Standards in their prospectuses. These are based on academic results; grade points are allocated to grades achieved, where an Achieved grade is worth two grade points, Merit is worth three grade points and Excellence is worth four grade points. Because 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



YEAR 11 VISUAL ARTS FOUNDATION COURSE (11ART)

CREDITS: 9-14 credits

PREREQUISITES: HOD approval

LEARNING ACTIVITIES: 5-10 NCEA Level 1 credits + 4 NCEA Level 2 credits

Students will develop their artistic skills through a variety of art-making techniques 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 and prepare them for Level 2 and 3. 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 | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| AS90913 | | Produce a resolved artwork to appropriate to established artmaking conventions | 1 | 5 | |
| AS91325 | | Produce a resolved work that demonstrates control of skills appropriate to cultural conventions, | 2 | 4 | |
| AS91311 | | Use drawing methods to apply knowledge of conventions appropriate to painting /printmaking | 2 | 4 | |

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

YEAR 12 VISUAL ARTS: PAINTING/ PRINTMAKING (ART2U)

CREDITS: 20

PREREQUISITES: Visual Arts Foundation Course

LEARNING ACTIVITIES:

The course offers 16 Level 2 credits (internal assessments worth 4 credits and external worth 12 credits) and one Level 3 internal assessment worth 4 credits.

This course builds on processes, procedures and techniques learned in the Year 11 Visual Arts Foundation Course, challenging students' perceptions of artmaking and their ability to communicate visually. Students may choose either printmaking or painting. 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, figure painting combined and landscapes.

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 | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| 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 |
| AS91446 | | Use drawing to demonstrate understanding of conventions appropriate to painting | 3 | 4 | |

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

Year 11 and 12 students with good fine motor skills and interest in Toi Māori are encouraged to take Whakairo in Years 12 and 13. Whakairo is a university approved subject.

WHAKAIRO (WHK2C)

LEVEL 2: NCEA Level 2 Unit Standards and Achievement Standards

PREREQUISITES: - This course is open to all students who wish to explore aspects of Toi Maori. Students must have passed either NCEA Level 1 Whakairo or the Year 11 Visual Arts Foundation Course

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 | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| US 23010 | | Generate, develop and refine visual ideas in whakairo | 2 | 5 | |
| US 23009 | | Identify and apply Maori art conventions, design elements and principles to explore whakairo | 2 | 5 | |
| US 23011 | | Demonstrate knowledge of whakairo production for meaning, intention, function and an artist's methodologies | 2 | 5 | |
| US 23012 | | Demonstrate knowledge of function and significance to explore the value of whakairo | 2 | 5 | |
| AS 91325 | | Demonstrate knowledge of whakairo production for meaning, intention, function and an artist's methodologies | 2 | 4 | |
| AS 91321 | | Produce a systemic body of work that shows understanding of art making conventions and ideas within sculpture | 2 | | 12 |

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

VISUAL ARTS: PAINTING/ PRINTMAKING (ART3U)

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

PREREQUISITES: NCEA Level 2 Painting or Printmaking

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 at the end Term 3, 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.

| Standard | W/R | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| AS91451 | | Systematically clarify ideas using drawing informed by established painting/printmaking practice | 3 | 4 | |
| AS91456 | | Produce a systemic body of work that integrates conceptions and regenerates ideas within painting/printmaking practice | 3 | | 14 |
| AS91460 | | Produce a resolved work that demonstrates purposeful control of skills appropriate to a visual arts cultural context | 3 | 4 | |

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 3 Unit Standards and Achievement Standards

PREREQUISITES: - This course is open to all students who wish to explore aspects of Toi Maori. Students must have passed either NCEA Level 2 Whakairo, Painting or Printmaking

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.

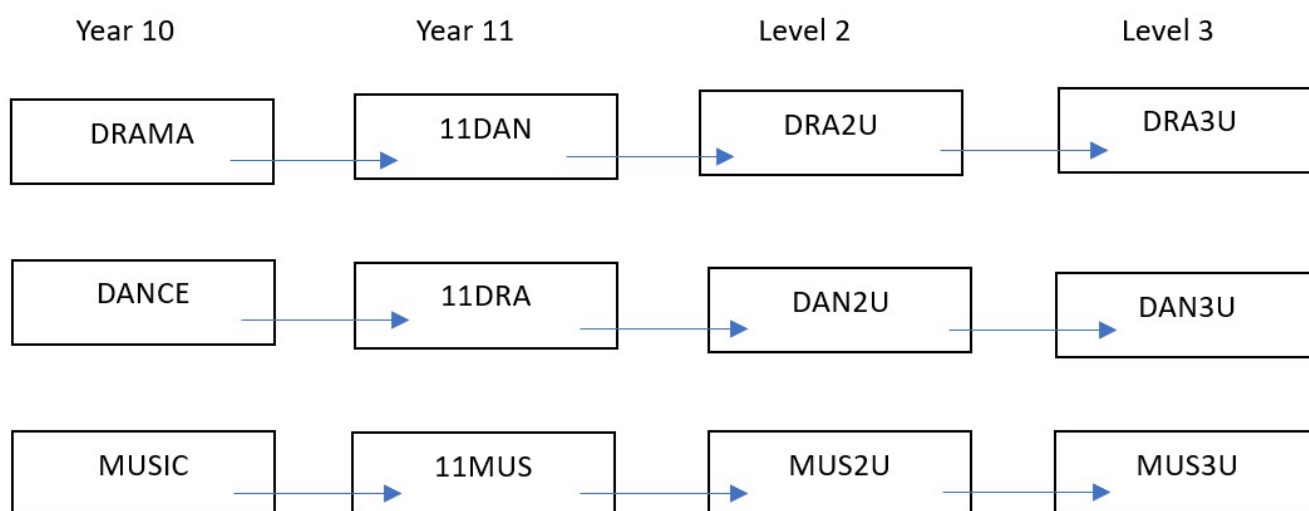
COST/EQUIPMENT: \$10.00 to cover the cost of an outing.

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| US 23013 | | Apply Maori art conventions, designs and practices to develop whakairo | 3 | 6 | |
| US 23014 | | Develop ideas to create whakairo | 3 | 6 | |
| US 23015 | | Examine meaning in particular whakairo situations | 3 | 6 | |
| US 23016 | | Examine and interpret change in particular whakairo situations | 3 | 6 | |
| AS 91460 | | Produce a resolved work that demonstrates purposeful control of skills appropriate to a visual arts cultural context | 3 | 4 | |
| AS 91456 | | Produce a systemic body of work that integrates conceptions and regenerates ideas within sculpture | 3 | | 14 |

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



DRAMA (11DRA)

This full year course is designed to prepare students for NCEA Level 2 Drama.

LEARNING ACTIVITIES: Students will explore in depth the elements, techniques and conventions of Drama which is an NCEA requirement. Year 11 Drama is also designed to improve student confidence, self-esteem and communication skills which will significantly help them when looking for employment. This course also aims to develop pupils' problem solving skills and their ability to think creatively. Topics that will be covered at this level include; physical theatre, performing from a text and creating group devised performances. The viewing of live theatre performance is also essential as this is a key strategy for students to understand theatre performance and production technologies.

COST/EQUIPMENT: (nil)

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| 91941 | | Participate in creative strategies to create a drama. | 1 | 5 | |

Subject leads to: NCEA Levels 2 and 3 Drama. Drama is a University approved subject.

DANCE (11DAN)

This full year will see the students complete one Level 1 internal and spend the rest of the year preparing for NCEA Level 2.

LEVEL 1: NCEA Level 1 Achievement Standard: **5 Credits**

LEARNING ACTIVITIES: Students will be given many opportunities to develop their knowledge of dance elements and choreographic devices. This course is also designed to develop student leadership skills, confidence, 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. Only one level 1 NCEA standard will be taught next year with the rest of the year's program focused on preparing students for Level 2 NCEA. The viewing of live dance performance is also essential as this is a key method for students to understand production technologies and concepts.

COST/EQUIPMENT: (nil)

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| 91936 | | Compose a dance sequence in response to a given brief. | 1 | 5 | |

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: 90% attendance at Year 11. They need to have studied Level 1 Drama or be given HOD approval.

LEARNING ACTIVITIES: : NCEA Level 2 Drama continues to build on the elements, techniques and conventions that were explored at Year 11. The main aim of this course is to develop a greater understanding of stylised drama and to give pupils the skills to become effective performers. Students will develop their devising 'tool box' and they will learn how to communicate compelling stories. Pupils will also continue to study plays and learn about the processes used for performing a text. The viewing of live theatre performances is 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)

| 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: 90% attendance at Year 11. They need to have studied Level 1 Dance or be given 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)

| 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: **18 Credits**

PREREQUISITES: 90% attendance at Year 12, 10 or more credits in Drama at Level 2 or be given 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 skills as a storyteller. During the year, pupils will focus on two devising topics and one text based topic. Topics covered include; the study and performance of 'physical theatre', the creation of an original devised drama and the performing of scenes from an important New Zealand play.

As the Year 13 Drama calendar can be busy, it is important that students are available for after school rehearsals. The end of year Exam will require students to analyse a professional theatre production so students need to make the most of all school drama trips.

COST/EQUIPMENT: (nil)

| 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 | |
| AS91517 | | Perform a substantial acting role in a significant production | 3 | 5 | |
| AS91518 | | 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: 90% attendance at Year 12, 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.

COST/EQUIPMENT: (nil)

| 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 |

YEAR 11 MUSIC (11MUS)

LEVEL 1: NCEA Level 1 and Level 2 Achievement Standards: **21 credits**

PREREQUISITES: 3 years performance experience or Year 10 Music or HOD approval

LEARNING ACTIVITIES: A practical based subject focusing on performance and composition. Students are encouraged to own their own instrument and take itinerant lessons. Students are expected to have a consistent and sustained practice routine at home and participate in extra-curricular activities for school or community events.

COST/EQUIPMENT: Own your performance instrument.

| Standard | W/R | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS91949 | | Demonstrate performance skills | 1 | 5 | |
| 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 a substantial piece of music as a member of a group | 2 | 4 | |

Subject leads to: Level 2 Music or volunteer work in the Community/Church

YEAR 12 MUSIC (MUS2U)

LEVEL 2 AND LEVEL 3: Level 2 and Level 3 Achievement Standards: **28 credits**

PREREQUISITES: Proficient on an instrument with at least 4 years' experience, or Year 11 Music or HOD approval

LEARNING ACTIVITIES: A practical based subject focusing on performance and composition. Students are encouraged to own their own instrument and take itinerant lessons. Students are expected to have a consistent and sustained practice routine at home. It is compulsory to participate in extra-curricular activities for school or community-based events.

COST/EQUIPMENT: Own your own performance instrument

| 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 a substantial piece of music as a member of a group | 2 | 4 | |
| AS91416 | | Perform two programmes of music as a featured soloist | 3 | 8 | |
| AS91418 | | Demonstrate ensemble skills by performing two substantial pieces of music as a member of a group | 3 | 4 | |

YEAR 13 MUSIC (MUS3U)

LEVEL 3: Level 3 Achievement Standards: **28 credits**

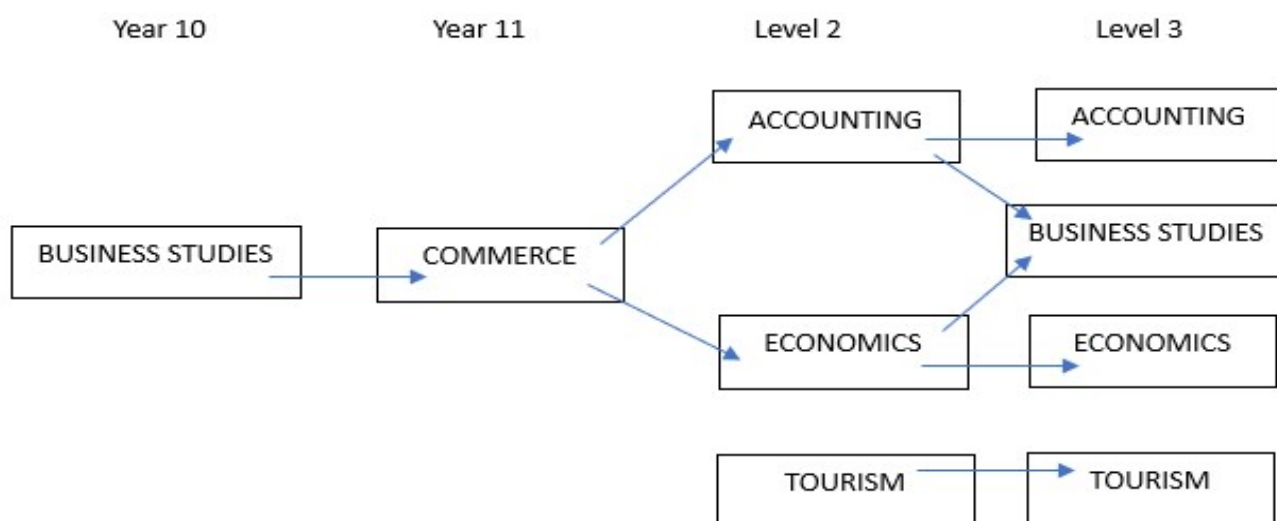
PREREQUISITES: Proficient on an instrument with at least 5 years experience, or Year 11 Music or HOD approval

LEARNING ACTIVITIES: A practical based subject focusing on performance and composition. Students are encouraged to own their own instrument and take itinerant lessons. Students are expected to have a consistent and sustained practice routine at home. It is compulsory for students to take part in extra-curricular performances for school or the community.

COST/EQUIPMENT: Own your own performance instrument

| 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 two 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 | |
| AS91849 | | Compose three original songs that express imaginative thinking | 3 | 8 | |

COMMERCE & VOCATIONAL



COMMERCE (11COM)

LEVEL 2: NCEA Level 1 Achievement Standard: **5 Level 1 Credits (5 Literacy)**

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

LEARNING ACTIVITIES: Students will develop their knowledge of Accounting, Economics, and Business which will provide them with a good grounding in these subjects for the following year. Students will also use Banqer, a simulated online banking system where students learn about financial principles in a virtual economy.

| Standard | N/L | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| AS 92029 | N/L | Demonstrate understanding of price determination for an organisation | 1 | 5 | |
| AS 91386 | | Demonstrate understanding of an inventory subsystem for an entity | 2 | 3 | - |
| AS 92030 | L | Demonstrate understanding of how interdependent financial relationships are affected by an event | 1 | - | 5 |

Subject leads to: Level 2 Accounting and Level 2 Economics

ACCOUNTING (ACC2U)

LEVEL 2: NCEA Level 2 Achievement Standard: **16 Credits**

PREREQUISITES: Level 1 Commerce is an advantage but not compulsory.

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

| Standard | N/L | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS 91175 | N | Demonstrate an understanding of accounting proceeding using accounting software | 2 | 4 | |
| AS 91176 | N | Prepare financial information for an entity that operates accounting subsystems | 2 | | 5 |
| AS 91179 | | Demonstrate understanding of an accounts receivable subsystem for an entity | 2 | 3 | |
| AS 91868 | | Demonstrate understanding of cash flow forecasting for a business | 2 | 4 | |

Subject leads to: Level 3 Accounting

ECONOMICS (ECO2U)

LEVEL 2: NCEA Level 2 Achievement Standard: **18 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.

| Standard | R/W | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| AS91223 | W | Analyse international trade using economic concepts and models | 2 | - | 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

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 partnerships, job-costing, and management accounting for decision making. Students will be given the opportunity to analyse financial data for a listed company.

| Standard | R/W | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| AS91405 | | Demonstrate understanding of accounting for partnerships | 3 | 4 | |
| AS91407 | R/W | 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 intend on studying for a Business 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.

| 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 | 3 | 5 | |
|---------|---|--|---|---|--|

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

BUSINESS STUDIES (BUS3U)

LEVEL 3: NCEA Level 3 Achievement Standard: **19 credits**

PREREQUISITES: Level 1 numeracy and literacy or HOD discretion

LEARNING ACTIVITIES: Business studies enable students to start their own business. Working with the Young Enterprise Scheme students will work in small teams to pitch, sell, and grow their business over the course of the year. In addition, students will look at financing options for different businesses and make decisions based on real world examples.

| Standard | R/W | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS91832 | | Develop a marketing plan for a new or existing product | 3 | 6 | - |
| AS91400 | | Carry out, with consultation, an innovative and sustainable business activity | 3 | 9 | - |
| AS91401 | | Analyse the effect of financing options of a strategic capital expenditure decision on a business | 3 | 4 | - |

Subject leads to: Students will gain a well-rounded knowledge of business terminology and business activities which will benefit both students who intend on studying for a Business or Commerce degree at university or those who are interested in operating their own small business in the future.

TOURISM (TOU2C)

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

PREREQUISITES: None

LEARNING ACTIVITIES: - This program is delivered in collaboration with The New Zealand School of Tourism and will teach you about the tourism industry, including tourist behaviour, business operations, and New Zealand as a destination. You'll also gain skills for working in the sector and should have basic literacy and numeracy abilities.

| Standard | Title | Level | Int | Ext |
|----------|--|-------|-----|-----|
| 24728 | Demonstrate knowledge of work roles in tourism | 2 | 3 | - |
| 24729 | Demonstrate knowledge of world travel destinations | 2 | 4 | - |
| 24730 | Demonstrate knowledge of the business of tourism | 2 | 4 | - |
| 24731 | Demonstrate knowledge of destination New Zealand | 2 | 4 | - |
| 24732 | Demonstrate knowledge of tourist characteristics and needs | 2 | 3 | - |
| 18237 | Use the Internet in a Tourism workplace | 2 | 2 | - |
| 23761 | Complete work-related documents for a tourism workplace | 2 | 3 | - |
| 23767 | Perform calculations for a tourism workplace | 2 | 3 | - |

Subject leads to: NCEA Level 3 Tourism.

TOURISM (TOU3C)

LEVEL 3: NCEA Level 3 Unit Standards: **21credits**

PREREQUISITES: None

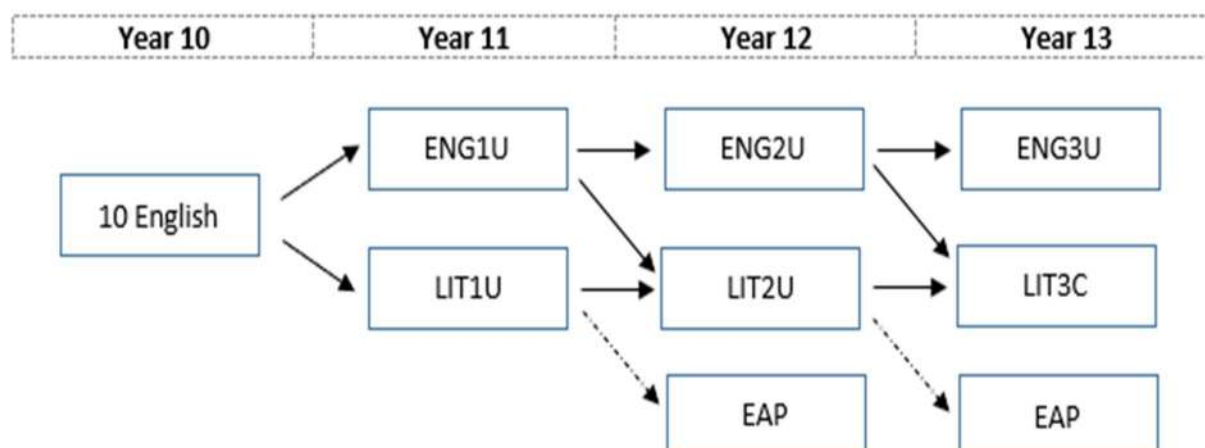
LEARNING ACTIVITIES: You do not need to have studied Tourism in Year 12 to enrol for this course as the credits achieved this year will contribute to your NCEA Level 3. This course focuses on improving your knowledge of specific local and overseas tourist destinations.

| Standard | Title | Level | Int | Ext |
|----------|---|-------|-----|-----|
| 3727 | Demonstrate knowledge of Pacific Island countries as visitor destinations | 3 | 5 | - |
| 18212 | Demonstrate knowledge of New Zealand as a tourist destination | 3 | 8 | - |
| 18211 | Demonstrate knowledge of Australia as a visitor destination | 3 | 5 | - |
| 25508 | Demonstrate knowledge of world travel geography | 3 | 3 | - |

Subject leads to: This qualification prepares you for entry to the National Certificate in Tourism and Travel (Level 4), which can direct you to other courses. You will be ready to study with any tertiary provider delivering Tourism and Travel courses in Levels 3-5.



ENGLISH



YEAR 11 ENGLISH LITERATURE (11ENG)

LEVEL 1: NCEA Level 1 Achievement Standards: **10 credits**

PREREQUISITES: In year 11, 11ENG (or 11LIT) is compulsory for all students.

LEARNING ACTIVITIES: Year 11 English Literature builds on the skills developed in the junior English programme. Students will study a film, a novel or play, and a range of short texts. There is a focus on reading, writing and research skills.

Three skills-based OC assessments will be completed to support achievement in Level 2 English – these will focus on interpreting written and visual texts and communicating ideas confidently and clearly in writing. 11ENG will also offer CAA preparation, and internal assessment which focuses on response to text, and an external NCEA exam which challenges students to identify techniques and make meaning from unfamiliar texts.

OC Assessments: (skills)

| |
|-----------------|
| Writing Skills |
| Research Skills |

| Standard | L/N | Title | Level | Ext |
|----------|-----|---|-------|-----|
| AS91925 | L | Demonstrate understanding of specific aspects of studied texts. | 1 | |
| AS91927 | L | Demonstrate understanding of significant aspects of unfamiliar texts. | 1 | 5 |

Subject leads to: Level 2 English Literature (ENG2U) or LIT2U.

YEAR 11 LITERATURE WITH LITERACY (11LIT)

LEVEL 1: NCEA Level 1 Achievement Standards: **5 credits**

PREREQUISITES: In year 11, 11ENG (or 11LIT) is compulsory for all students. Students will be selected for 11LIT based on Y10 results.

LEARNING ACTIVITIES: The year 11 Literature with Literacy is designed for students who need to develop confidence and control with basic literacy skills. LIT classes are smaller in number to help students work on core literacy and communication skills of reading, writing, listening and speaking. While students will still engage with literary texts, there will be a greater focus on the English language in this course. Please talk with your English teacher if you think this is the right course for you.

OC Assessments will focus on building foundational literacy skills – reading, writing and speaking. 11LIT will also offer CAA preparation, and an internal assessment that focuses on response to text.

OC Assessments: (skills)

| |
|---|
| Write to communicate ideas for a purpose and audience |
| Read texts with understanding |
| Actively participate in spoken interactions |

NCEA Assessments: (credits)

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS91925 | L | Demonstrate understanding of specific aspects of studied texts. | 1 | 5 | |

Subject leads to: LIT2U or EAP

YEAR 12 ENGLISH LITERATURE (ENG2U)

LEVEL 2: NCEA Level 2 Achievement Standards: **21 credits**

PREREQUISITES: Students need to have passed the Literacy CAAs and have some interest in the subject.

LEARNING ACTIVITIES: Year 12 English Literature is a challenging course that continues to build on the skills developed in 11ENG – specifically reading, writing and research skills at a higher level to achieve UE Literacy. As such, it is an essential course for any student aspiring to continue on to tertiary studies. Students on this course will complete an in-depth study of a novel (or play) and a film, and complete a research assessment and range of writing tasks to publication standard. There may be an extra assessment opportunity for students who demonstrate good time management and determination.

| Standard | R/W | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| AS91098 | R/W | Analyse specified aspect(s) of studied written text(s), supported by evidence. | 2 | | 4 |
| AS91099 | W | Analyse specified aspect(s) of studied visual or oral text(s), supported by evidence. | 2 | | 4 |
| AS91101 | W | Produce a selection of crafted and controlled writing | 2 | 6 | |
| AS91105 | R | Use information literacy skills to form developed conclusions. | 2 | 4 | |
| AS91100 | | 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 Literature (ENG3U) or LIT3C.

YEAR 12 LITERATURE WITH LITERACY (LIT2U)

LEVEL 2: NCEA Level 2 Achievement Standards: **18 credits**

PREREQUISITES: Students need to have passed EITHER 1 standard in 11ENG or 11LIT OR one of the Literacy CAA exams, and have some interest in the subject. Students will be selected for LIT2U based on Y11 results and teacher recommendations once option choices have been made.

LEARNING ACTIVITIES: The year 12 Literature with Literacy course is designed for students who enjoy English as a subject, but found Year 11 English Literature challenging (especially the reading and writing standards). Students will study a novel and a film as input for various internal assessments, and attempt two external exams to aim for UE literacy.

LIT classes are smaller in number and while students will still engage with literary texts, there will be a greater focus on alternative assessment methods and specific teaching of English language in this course. Please talk with your English teacher if you think this is the right course for you.

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS91099 | W | Analyse specified aspect(s) of studied visual or oral text(s), supported by evidence. | 2 | | 4 |

| | | | | | |
|---------|-----|--|---|---|---|
| AS91100 | R/W | Analyse significant aspects of unfamiliar written text(s) through close reading, supported by evidence. | 2 | | 4 |
| AS91105 | R | Use information literacy skills to form developed conclusions. | 2 | 4 | |
| AS91100 | | Analyse aspects of visual and/or oral text(s) through close viewing and / or listening, supported by evidence. | 2 | 3 | |
| AS91102 | | Construct and deliver a crafted and controlled oral text. | 2 | 3 | |

Subject leads to: LIT3C or EAP

YEAR 13 ENGLISH LITERATURE (ENG3U)

LEVEL 3: NCEA Level 3 Achievement Standards: **19 credits**

PREREQUISITES: Students need to have passed at least 2 standards from ENG2U (preferably one external standard and the research or writing assessments) and have some interest in the subject.

LEARNING ACTIVITIES: Year 13 English Literature is a challenging course that continues to build on the skills developed in 11ENG and ENG2U – specifically analysing and interpreting texts, making connections between texts. This course will also introduce you to literary theory and new ways to understand texts. It is an ideal course to for those desiring to continue onto university.

Students on this course will complete an in-depth study of a novel (or play) and a film, and complete a research, connections and close viewing internal assessments.

| Standard | R/W | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS01472 | R/W | Respond critically to specified aspect(s) of studied written text(s), supported by evidence. | 3 | | 4 |
| AS91473 | W | Respond critically to specified aspect(s) of studied visual or oral text(s), supported by evidence. | 3 | | 4 |
| AS91478 | | Respond critically to significant connections across texts, supported by evidence. | 3 | 4 | |
| AS91479 | R | Develop and 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 reading, supported by evidence. | 3 | 3 | |

YEAR 13 LITERATURE WITH LITERACY (LIT3C)

LEVEL 2: NCEA Level 2 Achievement Standards: **6 credits**

LEVEL 3: NCEA Level 3 Achievement Standards: **Up to 14 credits**

PREREQUISITES: Students need to have passed at least 1 standard in ENG2U, or 2 standards in LIT2U and have some interest in the subject. Students will be selected for LIT3C based on Y12 results and teacher recommendations once option choices have been made.

LEARNING ACTIVITIES: The year 13 Literature with Literacy is designed for students who enjoy English as a subject, but find it challenging and need to refine their reading and writing skills. LIT classes are smaller in number and while students will still engage with literary texts, this course is designed to give you additional opportunities to achieve UE literacy. Please talk with your English teacher if you think this is the right course for you.

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS91479 | R | Develop and informed understanding of literature and/or language using critical texts. | 3 | 4 | |
| AS91475 | R/W | Respond critically to significant aspects of unfamiliar written texts through close reading, supported by evidence. | 3 | | 4 |

| Students will also attempt at least 1 of the following assessments: | | | | | |
|---|-----|---|---|---|--|
| AS91480 | | Respond critically to significant aspects of visual and/or oral text(s) through close reading, supported by evidence. | 3 | 3 | |
| AS91478 | | Respond critically to significant connections across texts, supported by evidence. | 3 | 4 | |
| US127750 | R/W | Write a crafted text for a specified audience using researched material in English for an academic purpose | 4 | 6 | |

ENGLISH LANGUAGE

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

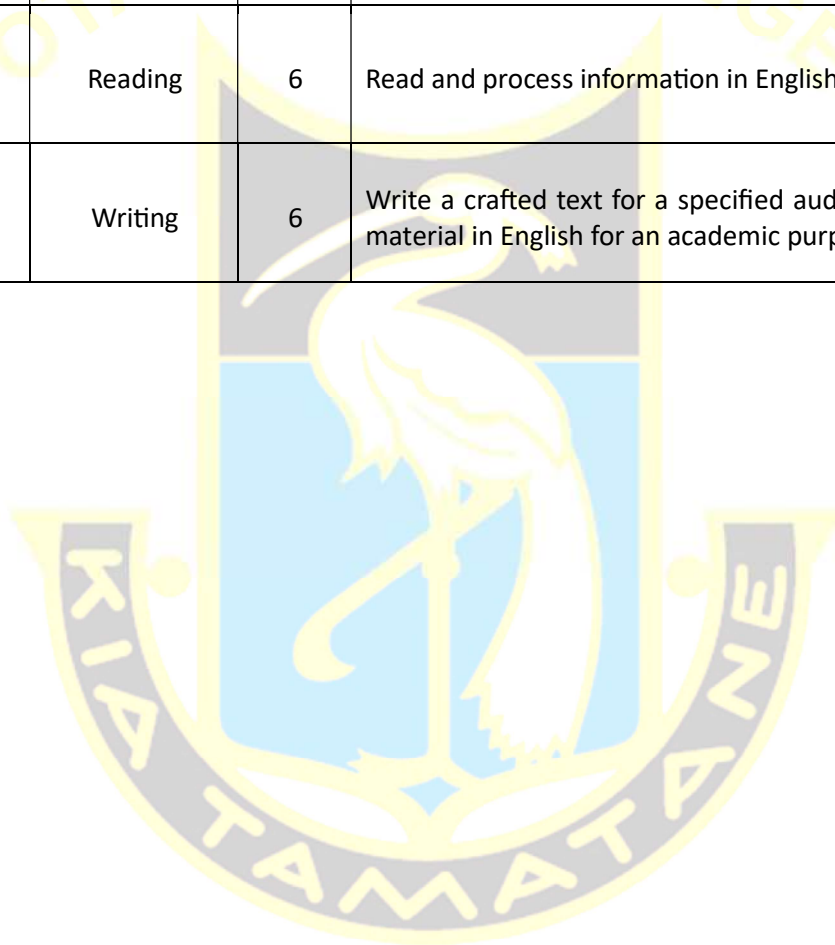
These individual differences are reflected in teachers' planning, teaching and on-going support for students.

Assessments

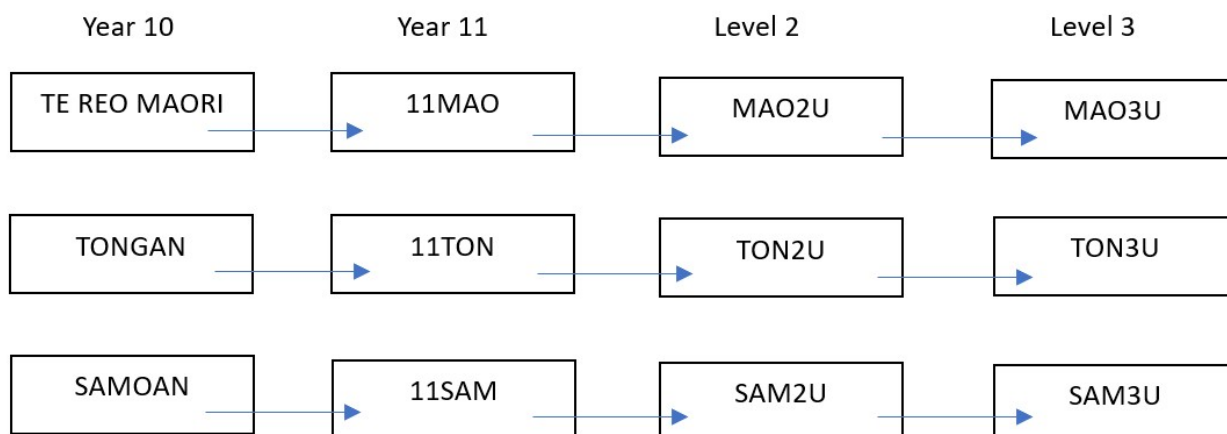
The following is a list of the indicative assessments to assess the achievement of English Language students.

| 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 |
| 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



TE REO MĀORI (11MAO)

LEVEL 1: NCEA Level 1 Achievement Standards: **12 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 may be 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)

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|-------------------------------------|-------|-----|-----|
| AS91089 | | Waihanga tuhinga 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.

TE REO 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 may be 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)

| 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 tea o 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.

TE REO 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 may be 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

| 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 tea o 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 (11TON)

LEVEL 1: NCEA Level 1: 5 Credits and NCEA Level 2: **5 Credits**

PREREQUISITES: - Satisfactory completion of Y10 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).

| Standard | Title | Level | Int | Ext |
|--------------------------|--|-------|-----|-----|
| Level 1 standards | Students can understand and produce more complex language. They can communicate beyond the immediate context eg. Past and future events. They can understand and produce a variety of text types. | | | |
| AS92039 (1.4) | Demonstrate understanding of spoken Lea Faka-Tonga related to everyday contexts | 1 | 5 | |

| | | | | |
|-----|---|----|---|--|
| 2.5 | Write a variety of text types in LFT to convey information, ideas and opinions in genuine contexts. | L2 | 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.

| 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.

| 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

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 Samoan early because it is difficult to take it up at Level 1, 2 or 3 without any prior Samoan in the lower levels.

SAMOAN (11SAM)

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

| Standard | Title | Level | Int | Ext |
|--------------------------|--|-------|-----|-----|
| Level 1 standards | Students can understand and produce more complex language. They can communicate beyond the immediate context eg. Past and future events. They can understand and produce a variety of text types. | | | |
| AS92035 (1.4) | Demonstrate understanding of spoken Gagana Sāmoa related to everyday contexts | 1 | 5 | |
| 2.5 | Write a variety of text types in Gagana Sāmoa to convey information, ideas and opinions in genuine contexts. | L2 | 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.

| 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)

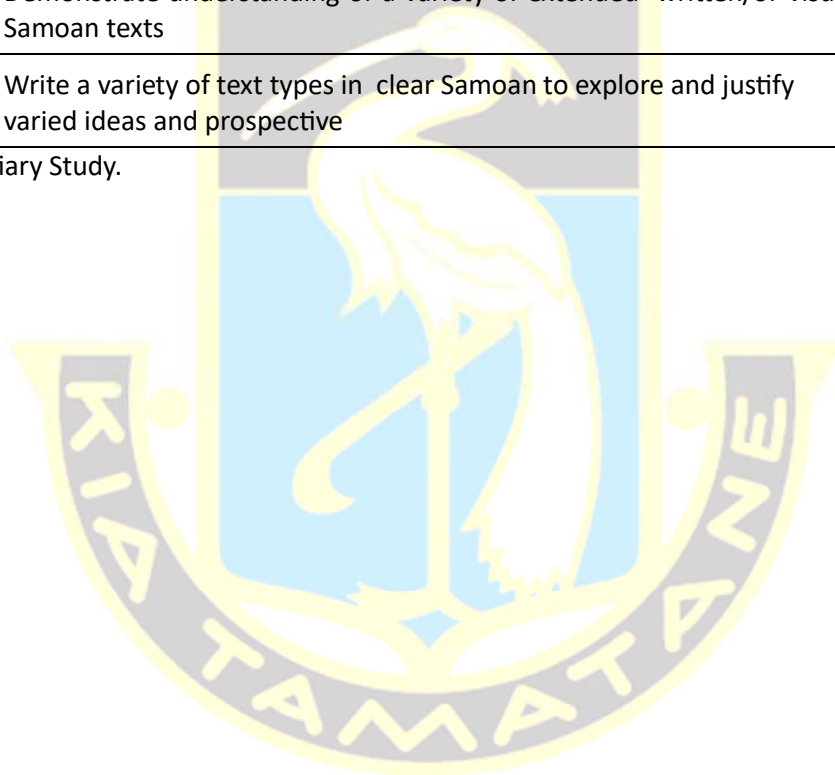
LEVEL 3: NCEA Level 3 Achievement Standards: **24 Credits**

PREREQUISITES: Satisfactory completion of Year 12 Samoan or HOD approval

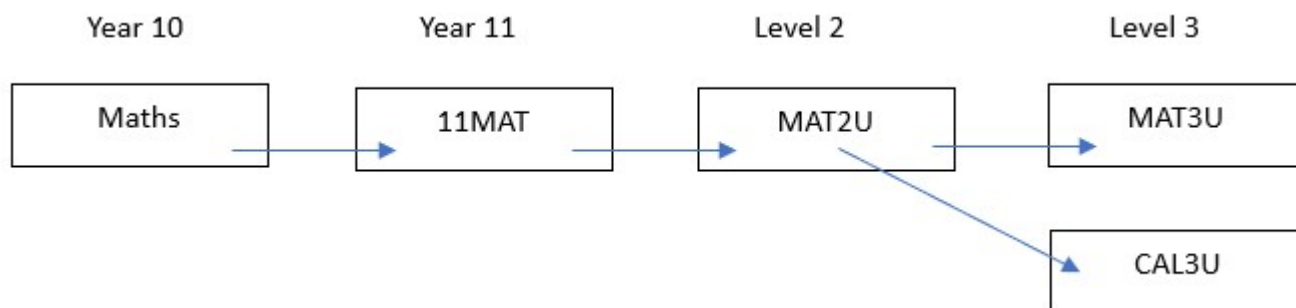
LEARNING ACTIVITIES: Students will continue their learning of language features from Samoan in year 12. Some areas of focus will be initiating and sustaining interactions in a range of contexts; expressing approval, regret and forgiveness; and creating texts that inform, persuade or entertain. Students 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.

| 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



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 (11MAT)

LEVEL 1:

- NCEA Level 1 Achievement Standards: **5 credits**
- NCEA Level 2 Achievement Standards: **6 credits**

PREREQUISITES: - None. This course is available to all Y11 students.

LEARNING ACTIVITIES: - This course focuses on algebra, geometry and measure.

COST/EQUIPMENT: -Scientific calculator – can be purchased at the book shop.

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| AS91945 | N | Use mathematical methods to explore problems that relate to life in Aotearoa New Zealand and The Pacific | 1 | 5 | |
| AS91256 | N | Apply co-ordinate geometry methods in solving problems | 2 | 2 | |
| AS91028 | N | Apply graphical methods in solving problems | 2 | 4 | |

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 11MAT 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 sat an internal exam in term 4 Y11.

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.

| 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: **19 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.

| 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 | |
| AS91587 | | Apply systems of simultaneous equations in solving problems | 3 | 3 | |
| 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: **24 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.

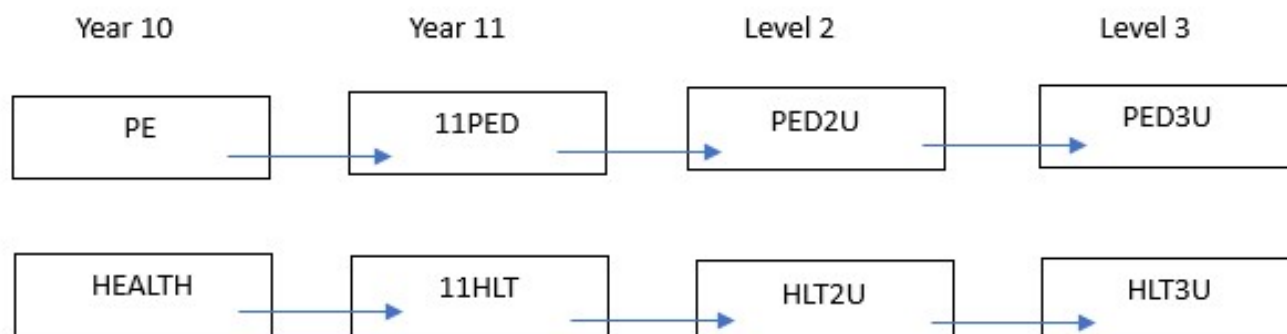
LEARNING ACTIVITIES: Students need to have a firm grasp of Algebraic manipulation skills as this course depends largely on connections made between Algebraic concepts and application. Success in this course is a prerequisite for University study of Engineering, Mathematics and some of the Commerce and 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

| Standard | W/R | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS91575 | | Apply trigonometric methods in solving problems | 3 | 4 | |
| AS91587 | | Apply systems of simultaneous equations in solving problems | 3 | 3 | |
| 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 (11PED)

LEVEL 1 and LEVEL 2: One NCEA Level 1 and One NCEA Level 2 Achievement Standard: **9 credits**

PREREQUISITES: It is advisable to have completed Year 10 Physical Education to an acceptable standard in terms of attitude and participation.

LEARNING ACTIVITIES: Students will participate in a wide range of team and individual activities including Outdoor Education trips, as well as spending time in the classroom learning theoretical concepts including interpersonal skills, training responses, exercise physiology, and anatomy and biomechanics.

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS92016 | | Apply movement strategies in an applied setting | 1 | 5 | |
| AS91330 | | Perform a physical activity in an applied setting | 2 | 4 | |

Subject leads to: PED2U, SPA3U and PED3U.

YEAR 11 HEALTH EDUCATION (11HLT)

LEVEL 1: One NCEA Level 1 Achievement Standard: **5 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 related to the underlying concepts of the health curriculum (hauora, attitudes and values, socio ecological perspective and health promotion), in a variety of mental health, relationships and sexuality and food and nutrition contexts. The assessment gives students the opportunity to learn about a variety of health models and understand wellbeing through the application of a chosen model.

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS92008 | | Demonstrate understanding of wellbeing through the application of a model of health | 1 | 5 | |

Subject leads to: HLT2U and HLT3U.

YEAR 12 PHYSICAL EDUCATION (PED2U)

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

PREREQUISITES: It is advisable to have completed 11PED to an acceptable standard; otherwise students will need to gain permission from the HOF 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 and teams. You will also learn about social responsibilities, develop confidence in team building activities, and apply risk management strategies in Outdoor Education settings. Each assessment is a Level 2 achievement standard and requires written work, class time, learning and writing notes.

| 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 | | <i>Perform a physical activity in an applied setting (optional reassessment from level 1)</i> | 2 | 4 | |
| AS91332 | L | Evaluate leadership strategies that contribute to the effective functioning of a group | 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 HEALTH (HLT2U)

LEVEL 2: NCEA Level 2 Achievement Standards: **19 credits**

PREREQUISITES: It is advisable to have completed 11HLT to an acceptable standard, otherwise students will need to gain permission from the HOF to do this course.

LEARNING ACTIVITIES: Students will continue to develop their knowledge on issues that influence adolescent health related to relationships and sexuality and mental health, and look in-depth at interpersonal issue(s) that place personal safety at risk (situations with power imbalances including; discrimination, intimidation, victimisation, harassment and bullying), the importance of resiliency in everyday life and strategies to promote wellbeing. Students will investigate media advertising and other factors that influence how we perceive male and female gender in society and must be prepared to help organise and run a school wide health promotion event.

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| 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 | |
| AS91238 | L | Analyse an interpersonal issue(s) that places personal safety at risk | 2 | | 4 |
| 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)

LEVEL 3: NCEA Level 3 Achievement Standards: **19 credits**

PREREQUISITES: This subject is a University Entrance subject. It is advisable to have completed PES2U or PED2U to an acceptable standard, otherwise students will need to gain permission from the HOF 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 which requires considerable written work. Key areas of focus are fitness programme planning and review, safety management in the outdoors, analysing and performing a physical skill, and a critical evaluation on personal physical activity experiences.

| 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 | |
| AS91504 | R | L | Analyse issues in safety management for outdoor activity to devise safety management strategies | 3 | 3 | |

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

LEVEL 3 HEALTH (HLT3U)

LEVEL 3: NCEA Level 3 Achievement Standards: **19 credits**

PREREQUISITES: This subject can lead to Health Science at University and other pre-degree programmes and is a University Entrance subject. It is advisable to have completed HLT2U to an acceptable standard, otherwise students will need to gain permission from the HOF to do this course.

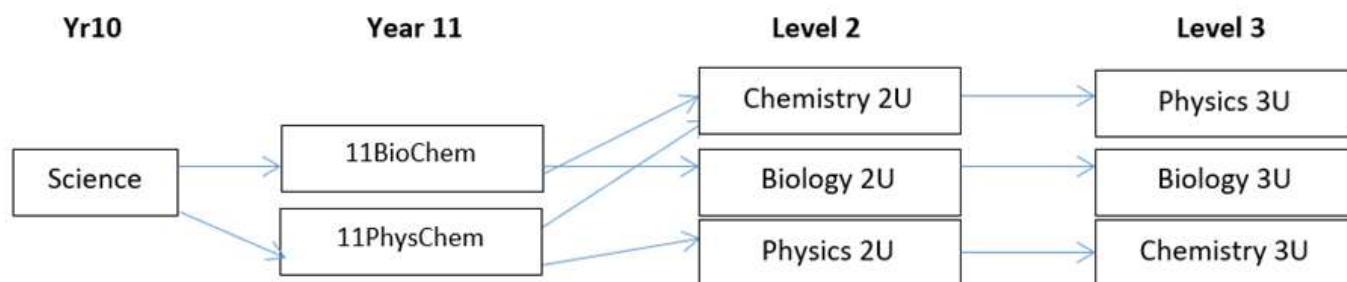
LEARNING ACTIVITIES: Students will continue to develop and apply their knowledge on issues that affect adolescent health in New Zealand society. Students will need to be able to express themselves well in all written work and have excellent research skills as they be will focussing on; the effect of 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.

| 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



YEAR 11 SCIENCE (11SCI)

PREREQUISITES: None

LEARNING ACTIVITIES: We are offering two year 11 Science courses that contains one year 11 and one year 12 internal. 11BioChem is focused on Biology and Chemistry that will give students foundation knowledge for BIO2U and CHE2U. 11PhysChem is focused on Physics and Chemistry which will prepare students for PHY2U and CHE2U. You can elect one or both courses. It is imperative that students who wish to take Science in L2 or L3, must take at least one of these courses.

ENRICHMENT ACTIVITIES: Guest speakers and STEM trips on offer

11BIOCHEM

| Standard | Title | Level | Int |
|----------|--|-------|-----|
| AS 92021 | Demonstrate understanding of chemical reactions in context | 1 | 6 |
| AS 91154 | Analyse the biological validity of information presented to the public | 2 | 3 |

11PHYSICHEM

| Standard | Title | Level | Int |
|----------|---|-------|-----|
| AS 92045 | Demonstrate understanding of a physical phenomenon through investigation | 1 | 5 |
| AS 91911 | Carry out an investigation into chemical species present in a sample using qualitative analysis | 2 | 3 |

BIOLOGY (BIO2U)

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

PREREQUISITES: Achieved internals in Level 1 Science or with the approval of the HOD.

LEARNING ACTIVITIES: This course starts off by students investigating a pattern in a local ecological context (the rocky shore community at Long Bay Beach). During this time, students develop important scientific skills such as making observations, identifying patterns, collecting and interpreting data, explaining findings and linking findings to biological concepts. During the rest of the year, students will develop the skills to write scientific reports through carrying out investigations and research assessments. By studying biology, students can expect to have a foundational understanding of cellular processes and genetic variation, two broad topics which are further narrowed down in level 3 Biology. Students should consider studying biology if they are interested in a career pathway in healthcare, scientific research, sustainability or conservation.

COURSE TRIP: Long Bay Beach

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

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS 91158 | | Investigate a pattern in an ecological community. | 2 | 4 | |
| AS 91155 | | Demonstrate understanding of adaptation of plants or animals to their way of life | 2 | 3 | |
| AS 91153 | | Carry out a practical investigation in a biology context, with supervision | 2 | 4 | |
| AS 91157 | | Demonstrate an understanding of genetic variation and change | 2 | | 4 |
| AS 91156 | | 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 and 3 Achievement standards: **19 Credits**

PREREQUISITES: At least 12 credits in SCI1U or with approval of the HOD

LEARNING ACTIVITIES: The course is a whole year theme based on organic chemistry. All achievement standards are linked to organic compounds and reactions. 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.

ENRICHMENT ACTIVITIES: Science career field trips, guest speakers, science lectures.

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS 91910 | N | Carry out a practical investigation into a substance present in a consumer product using quantitative analysis. | 2 | 4 | |
| AS 91911 | | Carry out an investigation into chemical species present in a sample using qualitative analysis. | 2 | 3 | |
| AS 91388 | | Demonstrate an understanding of spectroscopic data in chemistry. | 3 | 3 | |
| AS 91165 | L | Demonstrate an understanding of the properties of selected organic compounds. | 2 | | 4 |
| AS 91391 | | Demonstrate an understanding of the properties of selected organic compounds. | 3 | | 5 |

Subject leads to: Chemistry level 3

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 nonlinear mathematical relationship | 2 | 4 | |

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.

| 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 biological knowledge to develop an informed response to a socio-scientific issue | 3 | 3 | |

Subject leads to: - University Study

CHEMISTRY (CHE3U)

LEVEL 3: NCEA Level 2 and 3 achievement standards:

PREREQUISITES: At least 12 credits in NCEA Level 2 Chemistry or with the approval of the HOD. Note that students who did not take CHE2U will not be able to gain UE in CHE3U.

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 inorganic chemistry such as: atomic structure, thermochemical principles and redox.

COURSE TRIPS: Waihi Gold mine

ENRICHMENT ACTIVITIES: STEM related field trips, guest speakers and science lectures.

| Standard | Title | Level | Int | Ext |
|----------|--|-------|-----|-----|
| AS 91167 | Demonstrate an understanding of oxidation-reduction processes | 2 | 3 | |
| AS 91393 | Demonstrate an understanding of oxidation-reduction processes | 3 | 3 | |
| AS91389 | Demonstrate an understanding of the chemical processes in the world around us | 3 | 3 | |
| AS 91164 | Demonstrate an understanding of bonding, structure, properties and energy changes. | 2 | | 5 |

| | | | | |
|----------|--|---|--|---|
| AS 91391 | Demonstrate an understanding of thermochemical principles and the properties of particles and substances | 3 | | 5 |
|----------|--|---|--|---|

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.

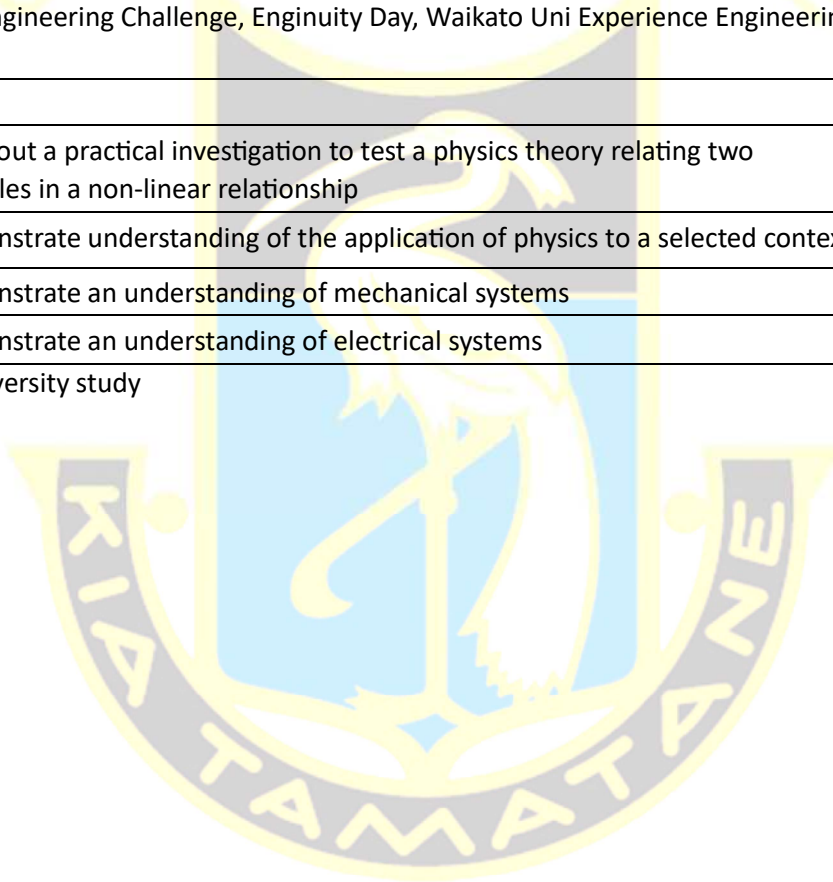
Why do Physics? Physics helps us to explain the world around us and thus is interesting in its own right. It also provides the scientific basis for our understanding of many aspects of science and modern technology. One of the reasons physics is in demand from employers is that it helps students learn 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

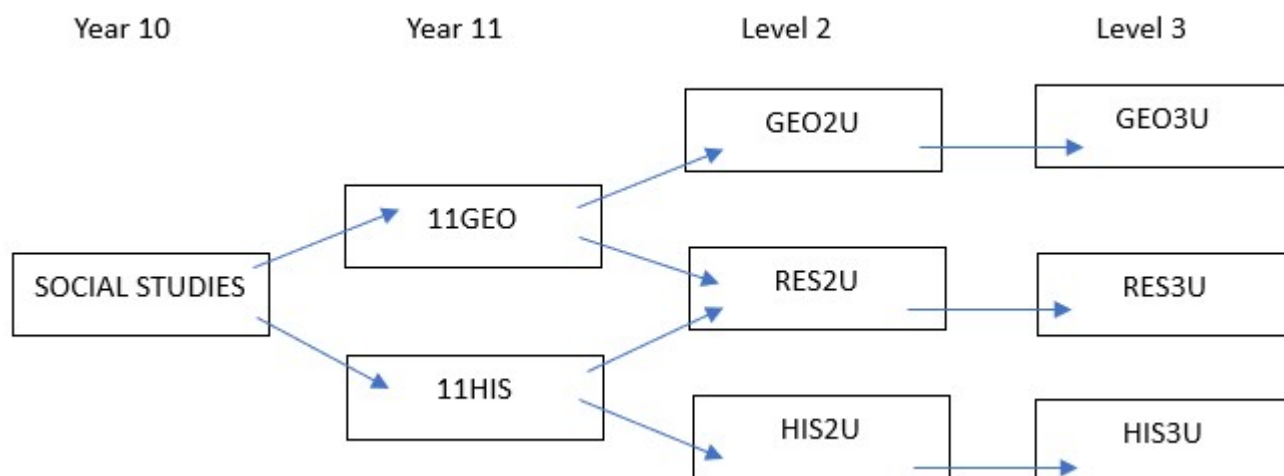
ENRICHMENT ACTIVITIES: Guest speakers, Metagenomics Day, Robotics Club, Women in Engineering Buddy Programme, EPro8 Engineering Challenge, Enginuity Day, Waikato Uni Experience Engineering Day

| 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 (11GEO)

LEVEL 1 and 2: - NCEA Level 1 and 2 Achievement Standards: **10 Credits** at Level 1 and **8 Credits** at Level 2

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. Field trips are scheduled around Otahuhu township and to the Waitomo Caves. Approximate costs are \$40.

| Standard | L/N | Title | Level | Credits | |
|----------|-----|--|-------|---------|-----|
| | | | | Int | Ext |
| AS91932 | L | Demonstrate understanding of the spatial distribution of phenomena and its impacts within te taiao | 1 | 5 | |
| AS91244 | N | Conduct geographic research, with direction | 1 | 5 | |

Subject leads to: Level 2 and Level 3 Geography and University study. This is a University approved course.

GEOGRAPHY (GEO2U)

LEVEL 2: NCEA Level 2 Achievement Standards: **14 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: Issues within our communities. Students will be studying the impact of shopping malls on surrounding areas, Chicago homicide rates, the cost of housing in Auckland, tropical rainforests and looking at the Amazon Basin. There are two field trips scheduled around Westfield Newmarket and the Auckland Zoo. Approximate costs are \$30.

| Standard | L/N | Title | Level | Credits | |
|----------|-------|---|-------|---------|-----|
| | | | | Int | Ext |
| AS91240 | L (R) | Demonstrate geographic understanding of a large natural environment | 2 | | 4 |
| AS91241 | | Demonstrate Geographic understanding of an urban pattern | 2 | 3 | |
| AS91246 | | Explain aspects of a Geographic topic at a global scale | 2 | 3 | |
| AS91245 | | Explain aspects of a contemporary New Zealand geographic issue | 2 | 3 | |

| | | | | | |
|---------|--|---|---|---|--|
| AS91244 | | Conduct geographic research with guidance | 2 | 5 | |
|---------|--|---|---|---|--|

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

GEOGRAPHY (GEO3U)

LEVEL 3: NCEA Level 3 Achievement Standards: **16 Credits**

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

LEARNING ACTIVITIES: This course builds on concepts taught in Level 2 Geography and focuses on several topics. Students will learn about the issue of human trafficking, tropical coral reefs, the planning process of events, tourism development in Auckland and Mallorca, Spain. There is a field trip scheduled to Queen St, SkyTower, a harbour cruise around Auckland CBD. Approximate costs will be \$45.

| Standard | L/N | Title | Level | Credits | |
|----------|---------|---|-------|---------|-----|
| | | | | Int | Ext |
| AS91428 | L (R) | Analyse a significant contemporary event from a geographic perspective | 3 | 3 | |
| AS91431 | L (R) | Analyse aspects of a contemporary geographic issue | 3 | 3 | |
| AS91432 | L (R) | Analyse aspects of a geographic topic at a global scale | 3 | 3 | |
| AS91430 | | Conduct geographic research with consultation | 3 | 5 | |
| AS91427 | L (R/W) | Demonstrate understanding of how a cultural process shapes geographic environment(s) | 3 | | 4 |
| AS91429 | L (R/W) | Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills | 3 | | 4 |

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

HISTORY (11HIS)

LEVEL 2: NCEA Level 2 Achievement Standards: **14 Credits**

PREREQUISITES: None

LEARNING ACTIVITIES: Year 11 History follows on from year 10 Social Studies, preparing students for the learning that will be required of them to achieve in Year 12 and Year 13. Gaining NCEA Level 2 History credits in Year 11 allows for more in-depth and engaging learning for students and fosters a future-focused learning environment. Year 11 History's theme is Human Rights with a focus on the 1981 Springbok tour protests and the Civil Rights movement in the USA. Possible field trips.

| Standard | L/N | Title | Level | Credits | |
|----------|-----|--|-------|---------|-----|
| | | | | Int | Ext |
| AS91231 | L | Carry out an inquiry of an historical event or place that is of significance to New Zealanders | 2 | 4 | |
| AS91230 | L | Examine an historical event or place that is of significance to New Zealanders | 2 | 5 | |
| AS91233 | L | Examine causes and consequences of a significant historical event | 2 | | 5 |

Subject leads to: Level 2 and Level 3 History and University study. This is a university approved course.

HISTORY (HIS2U)

LEVEL 2 and Level 3:

- NCEA Level 2 Achievement Standards: **5 Credits**
- NCEA Level 3 Achievement Standards: **11 Credits**

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

LEARNING ACTIVITIES: This course follows on from the concepts learnt in Year 11. The remaining NCEA Level 2 credits will be completed and NCEA Level 3 will be introduced to students where they will be given the opportunity to gain credits at both levels. Gaining NCEA Level 2 and NCEA Level 3 History credits in Year 12 allows for more in-depth and engaging learning for students and fosters a future-focused learning environment. Year 12 History's theme is **Conflict** with a focus on the Holocaust, the Israel and Palestine conflict and the Partition of India.

| Standard | L/N | Title | Level | Credits | |
|----------|-----|--|-------|---------|-----|
| | | | | Int | Ext |
| AS91234 | L | Interpret different perspectives of people in an historical event that is of significance to New Zealanders | 2 | 5 | |
| AS91438 | L | Analyse the causes and consequences of a significant historical event | 3 | | 6 |
| AS91434 | L | Research an historical event or place of significance to New Zealanders, using primary and secondary sources | 3 | 5 | |

Subject leads to: Level 2 and Level 3 History and University study. This is a University approved course

HISTORY (HIS3U)

LEVEL 3: NCEA Level 3 Achievement Standards: **16 Credits**

PREREQUISITES: 14 or more credits in Level 2 History or English or HOD discretion

LEARNING ACTIVITIES: This course follows on from the concepts learnt in Year 12. The remaining NCEA Level 3 credits will be completed. Students who are missing the appropriate Level 2 and Level 3 History credits can be given additional assessment opportunities during this year. Year 13 will look at the Treaty of Waitangi, and the Russian Revolution and the Cuban Missile Crisis.

| Standard | L/N | Title | Level | Credits | |
|----------|-----|--|-------|---------|-----|
| | | | | Int | Ext |
| AS91435 | L | Analyse an historical event, or place, of significance to New Zealanders | 3 | 5 | |
| AS91434 | L | Research an historical event or place of significance to New Zealanders, using primary and secondary sources | 3 | 5 | |
| AS91437 | L | Analyse different perspectives of a contested event of significance to New Zealanders | 3 | 5 | |
| AS91438 | L | Analyse the causes and consequences of a significant historical event | 3 | | 6 |

Subject leads to: University study. 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 | 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 |

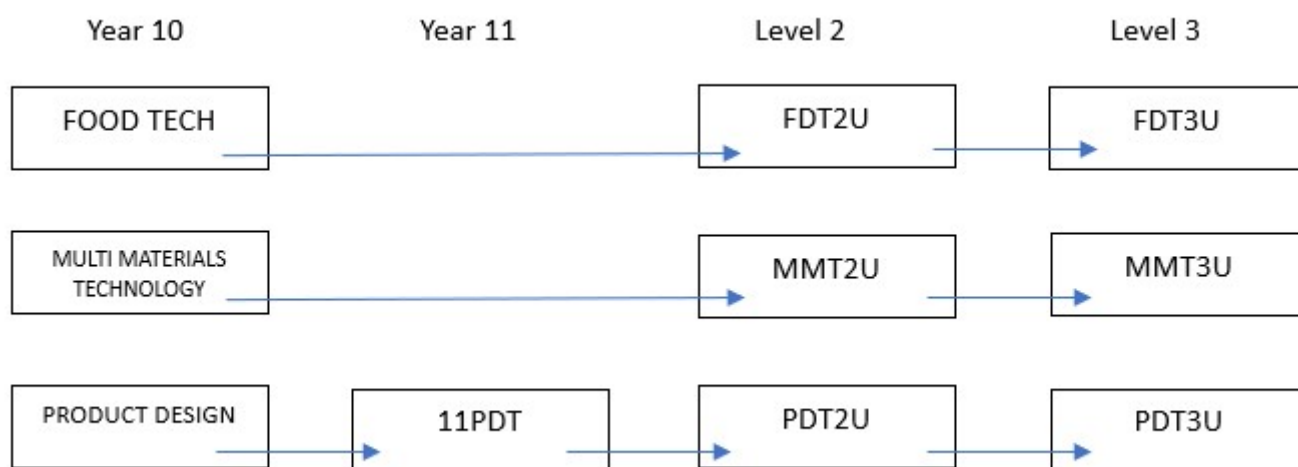
Subject leads to: Level 3 History/Geography/Religious Studies. This is a University approved course.

RELIGIOUS STUDIES (RES3U)

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 religions in Aotearoa-New Zealand, Religious Persecution and the Church and Society.

| Standard | L/N | Title | Level | Int |
|----------|-------|---|-------|-----|
| AS90825 | L (R) | Analyse a religious tradition(s) in Aotearoa New Zealand | 3 | 6 |
| AS90827 | L (R) | Analyse the key beliefs of a religious tradition and a secular world view in relation to ultimate questions | 3 | 6 |
| AS90826 | L (R) | Analyse the response of a religious tradition to a contemporary ethical issue | 3 | 6 |

TECHNOLOGY



PRODUCT DESIGN TECHNOLOGY (11PDT)

LEVEL 1: - Otahuhu College Technology Certificate of Achievement

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.

EQUIPMENT: Technology book pack must be purchased from the bookroom.

HEALTH & SAFETY: Students MUST have closed-covered shoes for all practical classes. Safety glass, dust mask and earmuffs will be provided.

| Standard | Title | Level | Credit | |
|----------|---|-------|--------|-----|
| OC 1.1 | Undertake brief development to address an issue | 1 | 4 | Int |
| OC 1.2 | Undertake effective development to make and trial a prototype | 1 | 6 | Int |
| OC 1.3 | Implement advanced procedures to process a specified product. | 1 | 6 | Int |

FOOD TECHNOLOGY (FDT2U)

LEVEL 2: NCEA Level 2 Achievement Standards: **22 Credits**

PREREQUISITES: Minimum of 6 credits in NCEA Level 1 Technology or at the discretion of the HOD.

LEARNING ACTIVITIES: This course is based on the Technology Curriculum. It is assessed against four Technology Achievement standards. It provides the opportunity for students to gain 22 credits at Level 2. There is no examination; however, three of the Achievement Standards will be assessed internally and the other one will be assessed through external marking. Students will use a technological approach to develop innovative and creative problem-solving skills. Practical skills in a wide range of materials are encouraged along with the learning of techniques and processes. Both practical products and portfolio contribute to assessments. Health and Safety regulations must be followed as per legislation.

EQUIPMENT: Technology book pack must be purchased from the bookroom.

HEALTH & SAFETY: Students MUST have closed-covered shoes and short unpolished nails for all practical classes. Hairnets and an apron will be provided.

Please note: students can choose **BOTH** the Technology options: Multi Materials Technology (MMT2U) and Food Technology (3TEF).

BUT cannot choose Product Design Technology (PDT2U)

| Standard | Title | Level | Int | Ext |
|----------|---|-------|-----|-----|
| US13285 | Handle and maintain knives in a commercial kitchen | 2 | 2 | |
| US20666 | Demonstrate basic knowledge of contamination hazards and control methods used in a food business | 2 | 2 | |
| AS91351 | Implement advanced procedures to process a specified product | 2 | 4 | |
| AS91353 | Demonstrate understanding of advanced concepts used in preservation and packaging for product storage | 2 | 4 | |
| AS91366 | Undertake development and implementation of an effective manufacturing process | 2 | 6 | |
| AS91359 | Demonstrate understanding of the role of material evaluation in product development | 2 | | 4 |

MULTI-MATERIALS TECHNOLOGY (MMT2U)

LEVEL 2: NCEA Level 2 Unit Standards: **20 Credits**

PREREQUISITES: HOD approval

COURSE DESCRIPTION: Level 2 Wood Technology is based on the Technology Curriculum and is assessed against three Technology Achievement Standards. It provides the opportunity for Akonga to gain 20 credits at level 2. Three of the internal achievement standards will be assessed internally and one will be externally marked. Students will use a technological approach to develop innovative and creative solving skills. Practical skills in a wide range of materials are encouraged along with the learning of techniques and processes. All achievement standards will be attached to a unit of study on "Outdoor furniture".

EQUIPMENT: Technology book pack must be purchased from the bookroom.

HEALTH & SAFETY: Students MUST have closed-covered shoes for all practical classes. Safety glass, dust mask and earmuffs will be provided.

Please note: students can choose two of the Technology options if they select Multi Materials Technology (MMT2U) **AND, Either** Product Design Technology (PDT2U) **OR** Food Technology (FDT2U).

| Standard | Title | Int/Ext | Level | Int |
|-----------------------------|--|---------|-------|-----|
| US 24354 (v3) | Demonstrate knowledge of health & safety legislation & apply safe working practices in a BCATS environment | Int | 2 | 4 |
| AS91356 (AS 2.1) | Develop a conceptual design for an outcome | Int | 2 | 6 |
| AS91344 (AS 2.2) [optional] | Implement advanced procedures using resistant materials to make a specified product with special features. | Int | 2 | 6 |
| AS91358 (AS 2.5) | Demonstrate understanding of how technological modelling supports risk management | Ext | 2 | 4 |

PRODUCT DESIGN TECHNOLOGY (PDT2U)

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

PREREQUISITES: Preferable to have completed 11PDT and/or 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.

EQUIPMENT: Technology book pack must be purchased from the bookroom.

HEALTH & SAFETY: Students MUST have closed-covered shoes for all practical classes. Safety glass, dust mask and earmuffs will be provided.

Please note: students can choose **BOTH** the Technology options: Multi Materials Technology (MMT2U) and Product Design Technology (PDT2U).

BUT cannot choose Food Technology (FDT2U).

| Standard | Title | Level | Int | Ext |
|-------------------|---|-------|-----|-----|
| AS91354 – AS 2.1 | Undertake brief development to address an issue. | 2 | 4 | |
| AS91357 – AS 2.4 | Undertake effective development to make and trial a prototype | 2 | 6 | |
| AS91351 – AS 2.60 | Implement advanced procedures to process a specified product. | 2 | 6 | |

FOOD TECHNOLOGY (FDT3U)

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

PREREQUISITES: Compulsory US167 and a minimum of 10 credits at Level 2 Food Technology or HOD approval.

LEARNING ACTIVITIES: The course provides students with an opportunity to work through the design process to use informed planning to guide them through the technological process. This will include planning and problem-solving, research, product trials, evaluation, stakeholder consultation and production of food products. Students will be encouraged to explore a range of foods and production processes relating to the issue(s) within the given context. Both practical products and portfolio contribute to assessments. Health and Safety regulations must be followed as per legislation.

EQUIPMENT: Technology book pack must be purchased from the bookroom.

HEALTH & SAFETY: Students MUST have closed-covered shoes and short unpolished nails for all practical classes. Hairnets and an apron will be provided.

Please note: students can choose **only one** from of the following Technology options: Multi Materials Technology (MMT3U), Product Design Technology (PDT3U), and Food Technology (FDT3U).

| Standard | Title | Level | Int | Ext |
|----------|--|-------|-----|-----|
| US168 | DKO food contamination hazards, and control methods used in a food business | 3 | 4 | |
| AS91608 | Undertake brief development to address an issue within a determined context | 3 | 4 | |
| AS91643 | Implement complex procedures to process a specified product | 3 | 6 | |
| AS91644 | Demonstrate understanding of combined preservation mechanisms used to maintain product integrity | 3 | 4 | |
| AS91617 | Undertake a critique of a technological outcome's design | 3 | | 4 |

MULTI- MATERIAL TECHNOLOGY (MMT3U)

LEVEL 3: NCEA Level 3 Achievement Standards: **20 Credits**

PREREQUISITES: 10 or more credits at NCEA Level 2 Technology

COURSE DESCRIPTION: Level 3 Wood Technology is based on the Technology Curriculum and is assessed against four Technology Achievement Standards. It provides the opportunity for Akonga to gain 14 credits at level 2. Three of the internal achievement standards will be assessed internally and one will be externally marked. Students will use a technological approach to develop innovative and creative solving skills. Practical skills in a wide range of materials are encouraged along with the learning of techniques and processes. All achievement standards will be attached to a unit of study on either "Spatial Design "or "Street furniture".

EQUIPMENT: Technology book pack must be purchased from the bookroom.

HEALTH & SAFETY: Students MUST have closed-covered shoes for all practical classes. Safety glass, dust mask and earmuffs will be provided.

Please note: students can choose **only one** from of the following Technology options: Multi Materials Technology (MMT3U), Product Design Technology (PDT3U), and Food Technology (FDT3U).

| Standard | Title | Level | Int | Ext |
|-------------------|---|-------|-----|-----|
| US 24354 (v3) | Demonstrate knowledge of health & safety legislation & apply safe working practices in a BCATS environment | 2 | 4 | |
| AS91608 | 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 |

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: Electric Kart/trike/cycle, Modern Furniture, Street Furniture or similar.

EQUIPMENT: Technology book pack must be purchased from the bookroom.

HEALTH & SAFETY: Students MUST have closed-covered shoes for all practical classes. Safety glass, dust mask and earmuffs will be provided.

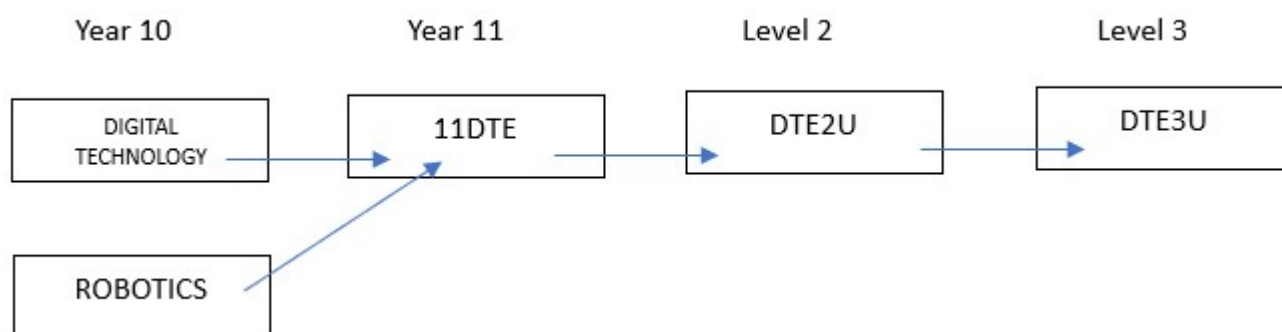
Please note: students can choose **only one** from of the following Technology options: Multi Materials Technology (MMT3U), Product Design Technology (PDT3U), and Food Technology (FDT3U).

| Standard | Title | 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 |



DIGITAL TECHNOLOGY



DIGITAL TECHNOLOGIES AND ROBOTICS (11DTE)

LEVEL 1: - NCEA Level 1 Achievement Standards

PREREQUISITES: - None but Year 10 Robotics or 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. Students will develop skills and knowledge of tools and techniques in the areas of Electronics, Programming, Modelling for 2D laser cutting and 3D Printing. Students will apply knowledge and skill as they are engaged in technological practice to develop a robotics prototype.

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

DIGITAL TECHNOLOGIES (DTE2U)

LEVEL 2: NCEA Level 2 Achievement Standards: **21 Credits**

PREREQUISITES: None, but DTE Level 1 would be an advantage.

LEARNING ACTIVITIES: - Solve a real problem using digital outcome, design principles and their application, Mechanical modelling techniques and 3D Printing, Sensors for Internet of Things. The Level 2 course teaches advanced techniques in coding, electronics, programming, and the graphic design of websites. It is available to everybody, although Level 1 Digital Technology will give you an advantage. You will use advanced techniques to plan, design and build a website, an electronics project, and a programming assignment, documenting the processes as you go. All your work will be practical and “hands on”.

| Standard | L/N | Title | Level | Int | Ext |
|----------|-----|--|-------|-----|-----|
| AS91891 | L | Apply conventions to develop a design for a digital technologies outcome | 2 | 3 | |
| 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 | |
| AS91897 | L | Use advanced processes to develop a digital technologies outcome | 2 | 6 | |

DIGITAL TECHNOLOGIES (DTE3U)

LEVEL 3: NCEA Level 3 Achievement Standard: **21 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; Advanced Programming Electronics

using embed computers. This course prepares students to study for a Degree in Electronics or Mechatronics Engineering, a National Diploma in Electronic Engineering, or an apprenticeship in electrical or electronics fields. Students will learn about electronic theory and construct electro-mechanical products and robots. This course links to the manufacturing and technology sector and the creative industries sector and encompasses these sector related careers: Electronics engineer, electrician, mechanical engineering technician, electronics trades, production manager, technical writer, sound technician. Study for a degree in electronics engineering, technology, robotics, or mechatronics.

COST/EQUIPMENT: nil

| Standard | R/W | Title | Level | Int | Ext |
|----------|-----|---|-------|-----|-----|
| AS91906 | R | Use complex programming techniques to develop a computer program | 3 | 6 | |
| AS91904 | R | Use complex techniques to develop an electronics outcome | 3 | 6 | |
| AS91907 | R | Use complex processes to develop a digital technologies outcome | 3 | 6 | |
| AS91901 | R/W | Apply user experience methodologies to develop a design for a digital technologies' outcome | 3 | 3 | |

Subject leads to: Further study in computing and related fields. These are University approved subjects.

