



**TE AROHA COLLEGE**

**Course Selection Guide**

**Year 12 & 13**

**NCEA Levels 2 & 3**

**2023**

# Te Aroha College Graduate Profile

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**Students of Te Aroha College are our future, they will be confident, connected, well rounded and have a clear future direction. They will have pride, purpose and flexibility. They will seek excellence and excel locally, nationally and internationally in their chosen strengths. They will be culturally aware and demonstrate tolerance, respect and understanding and will go out into the world and sustainably take responsibility for themselves and those who rely on them.**

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Choosing your Level 2 and Level 3 NCEA Course deserves careful thought and consideration. Our aim is to provide you with subjects you are interested in, which will benefit you in future years, and support your chosen career and employment or lead you to further academic study.

This Course Selection Guide provides you with outlines for Levels 2 and 3 NCEA courses which will probably be offered through timetabled classes in 2023. Courses will only go ahead with sufficient numbers, others can be taken through the Te Kura Correspondence School.

**Every student must complete Preliminary Course Selection by  
Wednesday, 14 September:**

- ◇ **Online using the website– <https://tearoha.schoolpoint.co.nz>**
- ◇ **The Link is also on school website: <https://tearoha.school.nz>**
- ◇ **Students sign in with student username and password**
- ◇ **Those without internet access should complete it at school**

**Students will be given allocated school time on Wednesday, 14 September if not already completed.**

**Students' Course Selection will be finalised in consultation with their Dean.**

## **Requirements for Level 2 NCEA:**

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- Students must gain at least 80 credits as follows:
  - 60 credits from Level 2 or above
  - 20 credits at Level 1 or above

## **Requirements for Level 3 NCEA:**

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- Students must gain at least 80 credits as follows:
  - 60 credits from Level 3 or above
  - 20 credits at Level 2 or above

## **Requirements for University Entrance:**

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- Level 3 NCEA
- at least 14 credits in at least 3 approved Level 3 subjects
- 5 Reading credits and 5 Writing credits from assessments nominated as University Entrance Literacy credits. These are noted in the course outlines as R or W
- at least 10 Numeracy credits at Level 1 or above

## **Overall Merit or Excellence Endorsements**

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- at least 50 Achievement Standard credits at Merit or Excellence

## **Subject Merit or Excellence Endorsements**

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- at least 14 Achievement Standard credits at Merit or Excellence, including at least 3 credits in both internal and external assessments

## **Learning Recognition Credits and Reductions**

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In previous years NZQA have changed and reduced these requirements due to disruptions during the school year. It is unlikely there will be changes in 2023. Students will be notified if these occur.

# Te Aho o Te Kura Pounamu - Correspondence School

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Students wishing to take a subject not currently being offered, or if there are insufficient numbers to form a class, may complete a dual enrolment with the Correspondence School, *Te Aho o Te Kura Pounamu*, at no cost. Please contact Ms Scott ([rscott@tacol.nz](mailto:rscott@tacol.nz)) to discuss this option. Only students with a demonstrated independent work ethic are considered.

## Vocational Pathways and Course Selection

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National career indicators are clearly advising that future job markets are rapidly evolving and students need to be immersed in a culture of adaptability when career planning.

The Vocational Pathways structure was designed to link secondary education to tertiary study in a rapidly changing work environment. Vocational Pathways helps you to see how your strengths and achievements relate to future study options and job opportunities. The pathways provide clear indication of where a subject fits into the real world, and what is valued by employers.

The pathways cover six broad industry sectors:

- Manufacturing and technology
- Construction and infrastructure
- Creative industries
- Primary industries
- Social and community services
- Services industries

When you are selecting your courses for next year, you should consider how the subject programmes relate to your intended vocational pathway.

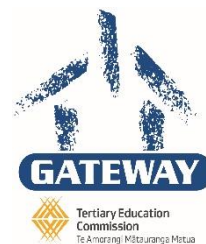


**Your Dean and Form Teacher are available should you have any questions.**

# Gateway / Work Readiness Programme

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The Gateway team is developing a cohesive strategy for supporting our students to make considered career choices. Gateway is offered to Year 12 and 13 students as a vocational pathway into the workforce. The Gateway programme consists of:



- a work experience placement, run on Smart Day
- the completion of 20 credits in class (in Gateway class or another industry-relevant class)
- additional specialist courses

**Please note: Students can take a Gateway placement without enrolling in a timetabled Gateway Support class.**

Gateway and work experience placements, as well as relevant units of work, are organised by the Gateway co-ordinator Mrs Sarah Verran-Tye ([sverran-tye@tacol.nz](mailto:sverran-tye@tacol.nz)).

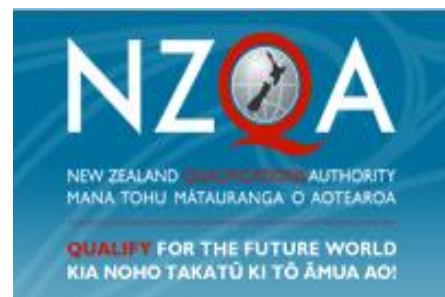
On Smart Day in Terms 2 and 3 generic courses may be run for Gateway students (priority students) and all Year 12 and 13 students. These may include:

- First Aid
- Health and Safety
- Leadership
- Security
- Scaffolding
- Drivers' Licences

## Special Assessment Conditions or SAC

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NZQA recognises that some students have learning or medical needs which require special assessment conditions (SAC) during NZQA assessments. This can provide students with a reader or writer, use of a computer, a separate room, additional time, rest



breaks, braille paper or large print. SACs apply to assessments during the year, and exams at the end of the year. For example, a student with dyslexia could be provided with someone to read the exam questions, write down answers, or a computer to type answers. A student with anxiety, epilepsy or diabetes could sit their exam in a separate room and have rest breaks.

The process to obtain SAC is formal and an application to NZQA is made by Te Aroha College. Students with learning needs can be assessed by Te Aroha College staff and/or by specialists. Students with medical needs must provide documentation from a medical practitioner. Te Aroha College can help with obtaining the necessary testing and documentation, or caregivers can do this themselves.

SACs do not cover students who have a sudden illness or injury, for example a broken arm just before exams. This is covered by the Derived Grade and Practice Exam process.

If you would like to know more about obtaining SAC for your child, please contact Rachel Scott ([rscott@tacol.nz](mailto:rscott@tacol.nz)), Principal's Nominee for NZQA, in the first instance. From there you may be referred to other staff members for assistance to obtain the necessary reports.

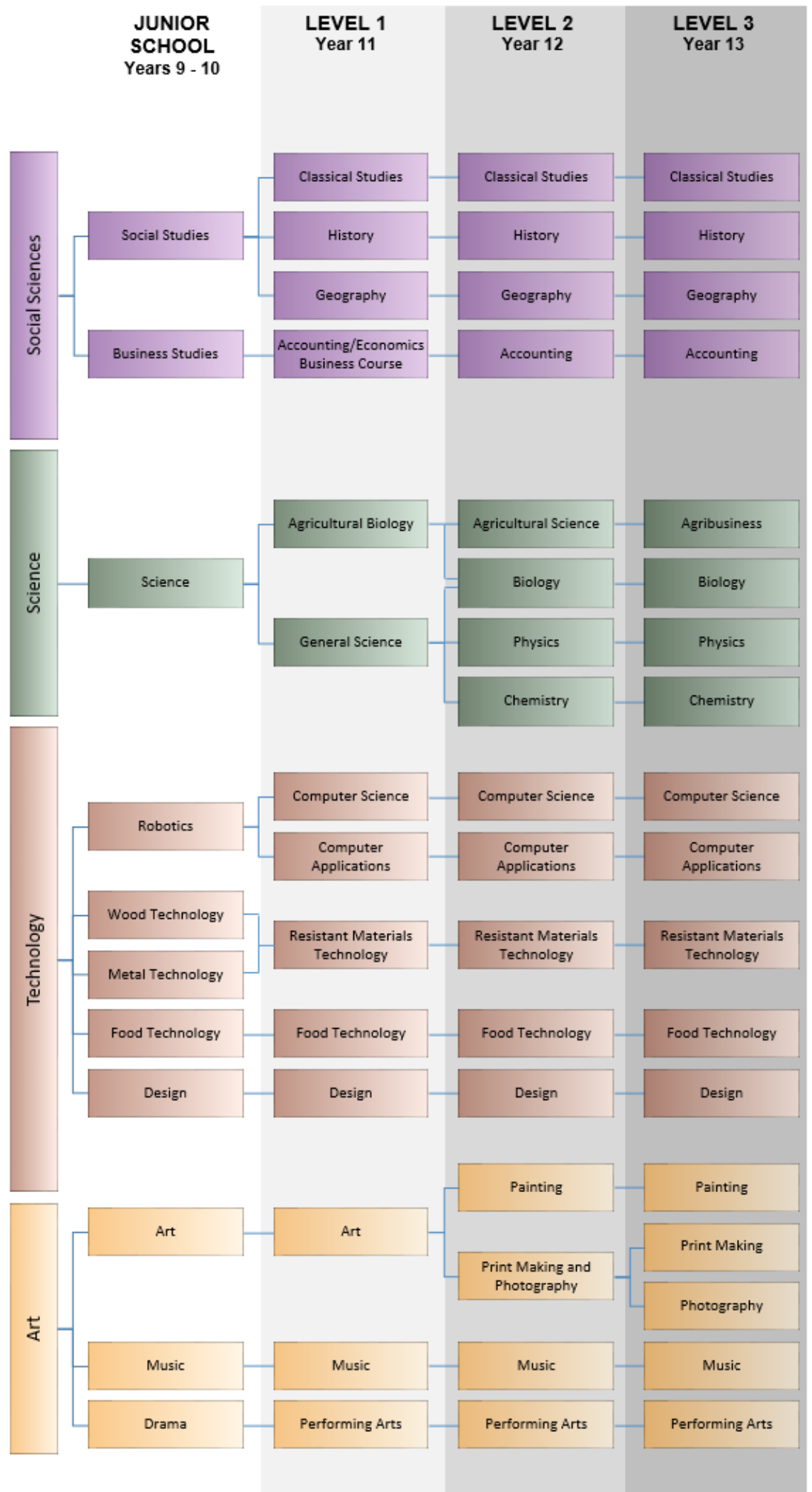
This link takes you to NZQA's SAC information <https://www.nzqa.govt.nz/providers-partners/assessment-and-moderation-of-standards/managing-national-assessment-in-schools/special-assessment-conditions/>



# Subject Map

This Subject Map will help you chart your subject selections from Year 9 to Year 13.







*Select 6 subjects from the options which follow.*

*Pay close attention to the Pre-Requisites required.*

*Ensure you have a range of subjects which will allow you to keep your options open as your interests change.*

## **ACCOUNTING, BUSINESS AND ECONOMICS**

**Course Title:** Accounting L2 (12ACC)

**Pre-Requisites:** Level 1 Accounting or HOD approval

**Course Costs:** Workbooks \$28, Study Guides (optional) \$20

**Total Credits Available:** 15

**Internally Assessed:** 10

**Externally Assessed:** 5

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91179	Demonstrate understanding of accounts receivable subsystem for an entity	Int	3	Y	N
AS91175	Demonstrate understanding of accounting processing using software	Int	4	Y	N
AS91386	Demonstrate understanding of an inventory subsystem for an entity	Int	3	Y	N
AS1176	Prepare financial information for an entity that operates accounting subsystems	Ext	5	Y	N

**Course Highlights:** This course will enhance students' understanding of the financial world and how wealth is generated. Recommended for any student wishing to study management or own their own business in the future. Bookkeeping is a skill, once learned, students are able to apply this knowledge. Students gain confidence and enjoy this subject as there is always an absolute answer.

**Vocational Pathway:** Creative Industries, Services Industries.

This course can lead to: Level 3 Accounting.

For more information, please see Mr Darby.

**Course Title: Accounting L3 (13ACC)**

Pre-Requisites: Level 1 or 2 Accounting or HOD approval

Course Costs: Workbooks \$30, Study Guides (optional) \$20

Total Credits Available: 17

Internally Assessed: 13

Externally Assessed: 4

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91405	Demonstrate understanding of accounting for partnerships	Int	4	Y	N
AS91407	Prepare a report for an external user that interprets the annual report of a New Zealand reporting entity	Int	5	Y	R&W
AS91409	Demonstrate understanding of a job cost subsystem	Int	4	Y	N
AS91408	Demonstrate understanding of management accounting to make a decision	Ext	4	Y	N

Course Highlights: This course will enhance students' understanding of the financial world and how wealth is generated. Recommended for any student wishing to study management or own their own business in the future. Bookkeeping is a skill, once learned, students are able to apply this knowledge. Students gain confidence and enjoy this subject as there is always an absolute answer.

Vocational Pathway: Creative Industries, Services Industries.

This course can lead to: Further Tertiary study or working in administration.

For more information, please see Mr Darby.

# ARTS, PERFORMING ARTS AND LANGUAGES

**Course Title:** Art – Photography and Printmaking L2 (12PHOTO)

**Pre-Requisites:** Level 1 Art (10 credits) or approval from Ms Baylis

**Course Costs:** \$80 equipment & materials fee, \$30 for possible Art Trip (tbc)

**Total Credits Available:** 20

**Internally Assessed:** 8

**Externally Assessed:** 12

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91313	Use drawing methods to apply knowledge of conventions appropriate to printmaking	Int	4	N	N
AS91312	Use drawing methods to apply knowledge of conventions appropriate to photography	Int	4	N	N
AS91323	Produce a systematic body of work that shows understanding of art making conventions and ideas within printmaking	Ext	12	N	N
AS91322	OR Produce a systematic body of work that shows understanding of art making conventions and ideas within photography	Ext	12	N	N

**Course Highlights:** Explore your personal creative identity using photography and printmaking techniques including drawing, linocuts, dry-point etchings and mono-prints. Students will learn about photography and printmaking, then choose one for their folio boards. Our theme will be 'Life and Death'.

**Vocational Pathway:** Creative Industries.

This course can lead to: Level 3 Art Course in either Painting, Photography or Printmaking. Exciting creative careers such as Artist, Illustrator, Photographer, Gallery Owner, Architect, Fashion Designer, Interior Designer, Film Director, Film or TV production, Advertising Designer, Media Design, Art Teacher, Art Therapist.

For more information, please see Ms Baylis.

**Course Title: Art – Painting L2 (12PAINT)**

Pre-Requisites: Level 1 Art (10 credits) or approval from Ms Baylis

Course Costs: \$80 equipment & materials fee, \$30 for possible Art Trip (tbc)

Total Credits Available: 20

Internally Assessed: 8

Externally Assessed: 12

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91311	Use drawing methods to apply knowledge of conventions appropriate to painting	Int	4	N	N
AS91316	Develop ideas in a related series of drawings appropriate to established painting practice	Int	4	N	N
AS91321	Produce a systematic body of work that shows understanding of art making conventions and ideas within painting	Ext	12	N	N

Course Highlights: Explore your personal creative identity through hands-on drawing and painting. Our Year 12 theme will be 'Play' and we will play with the expressive potential of paint through texture, colour, and image.

Vocational Pathway: Creative Industries.

This course can lead to: Level 3 Painting or Printmaking, exciting creative careers such as Artist, Illustrator, Photographer, Gallery Owner, Architect, Fashion Designer, Interior Designer, Film Director, Film or TV production, Post Production, Advertising Designer, Media Design, Art Teacher, Art Therapist.

For more information, please see Ms Baylis.

**Course Title:** Art – Painting L3 (13PAINT), Printmaking L3 (13PRINT) or Photography L3 (13PHOTO)

**Pre-Requisites:** 8 credits in a Level 2 Art subject or approval from Ms Baylis

**Course Costs:** \$80 equipment & materials fee, \$30 for possible Art Trip (tbc)

**Total Credits Available:** 22      **Internally Assessed:** 8      **Externally Assessed:** 14

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91446 AS91448 AS91447	Use drawing to demonstrate understanding of conventions appropriate to painting or printmaking or photography	Int	4	N	N
AS91451 AS91453 AS91452	Systematically clarify ideas using drawing informed by established painting or printmaking or photography practice	Int	4	N	N
AS91456 AS91458 AS91457	Produce a systematic body of work that integrates conventions and regenerates ideas within painting or printmaking or photography practice	Ext	14	N	N

**Course Highlights:** Developing a personal style in Year 13 Painting, Printmaking or Photography through experimenting with a range of Artist models with different approaches. Deepening practical skills in your chosen discipline. Exploring themes and ideas in depth in an Art portfolio.

This course can lead to: Tertiary study in Art or Design. Exciting creative careers such as Artist, Illustrator, Photographer, Gallery owner, Architect, Fashion Designer, Interior Designer, Film Director, Film or TV production, Post Production, Advertising Designer, Media Design, Art Teacher, Art Therapist.

**Vocational Pathway:** Creative Industries.

For more information, please see Ms Baylis.

**Course Title: Performing Arts L2 (12PAT)**

**Pre-Requisites:** Students need to be able to manage themselves and relate to others well, whether working on stage or backstage. Students will choose 3 topics which suit their interest and ability.

**Course Costs:** \$30 to see a professional dance troupe in Tauranga or Hamilton.

**Total Credits Available:** 39

**Internally Assessed:** 39

**Externally Assessed:** 0

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91205	Choreograph a group dance to communicate an intention	Int	4	N	N
AS91206	Choreograph a solo dance to communicate an intention	Int	4	N	N
AS91208	Perform a theatre dance to communicate understanding of the dance	Int	4	N	N
AS91270	Perform two substantial pieces of music as a featured soloist	Int	6	N	N
AS91218	Perform a substantial acting role in a scripted production	Int	5	N	R
<i>Offered through Smart Day Production</i>					
US27699	Research and Design a costume for a specified performance context	Int	4	N	N
US27701	Demonstrate knowledge and skills of make-up design and application for a specified character	Int	4	N	N
US27702	Take responsibility for a production area of a performance	Int	4	N	N
US27704	Design and construct item(s) to meet production needs for a performance	Int	4	N	N

**Course Highlights:** Students will select an individual learning programme from the standards above which focuses on performing in the school Showquest and/or school production. All students are required to attend out-of-school rehearsals and support the school wide performance. Actors, Singers and Dancers will be required to perform in front of an audience. They will create sequences of dance and develop their characters. Backstage crew will work with actors and dancers, stage managers and the teacher/director to create, produce and implement set, costume and make-up design.

**Vocational Pathway:** Creative Industries.

This course can lead to: confidence and relationship building; school leadership; a course at Level 3; careers Performance, Film, TV, Journalism, Marketing, Communications and Public Relations, Teaching, Politics and Law.

For more information, please see the Head of Arts, Ms Hagan.



**Course Title: Performing Arts L3 (13PAT)**

Pre-Requisites: Students need to be able to manage themselves and relate to others well, whether working on stage or backstage. Students will choose 3 topics which suit their interest and ability.

Course Costs: \$30 to see a professional dance troupe in Tauranga or Hamilton.

Total Credits Available: 47

Internally Assessed: 47

Externally Assessed: 0

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91588	Produce a dance to realise a concept	Int	8	N	N
AS91589	Choreograph a dance to develop and resolve ideas	Int	4	N	N
AS91590	Perform a solo or duet dance	Int	4	N	N
AS91416	Perform two programmes of music as a featured soloist	Int	8	N	N
AS91517	Perform a substantial acting role in a significant production	Int	5	N	R
<i>Offered through Smart Day Production</i>					
US28002	Research, develop, visually communicate and apply a costume design concept for a given work	Int	6	N	N
US28004	Research, develop, visually communicate and apply a make-up design concept for a given work	Int	6	N	N
US28006	Research, develop and visually communicate a set design concept for a given work	Int	6	N	N

Course Highlights: Students will select an individual learning programme from the standards above which focuses on performing in the school Showquest and/or school production. All students are required to attend out-of-school rehearsals and support the school wide performance. Actors, Singers and Dancers will be required to perform in front of an audience. They will create sequences of dance and develop their characters. Backstage crew will work with actors and dancers, stage managers and the teacher/director to create, produce and implement set, costume and make-up design.

Vocational Pathway: Creative Industries.

This course can lead to: confidence and relationship building; school leadership; a course at Level 3; careers Performance, Film, TV, Journalism, Marketing, Communications and Public Relations, Teaching, Politics and Law.

For more information, please see the Head of Arts, Ms Hagan.

**Course Title: Spanish L2 (12SPA)**

Pre-Requisites: 10 credits in Level 1 Spanish, or in consultation with the Teacher of Spanish

Course Costs: \$30 Language Perfect Website subscription

Total Credits Available: 19

Internally Assessed: 9

Externally Assessed: 10

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91152	Write a variety of text types in Spanish for genuine contexts	Int	5	N	N
AS91150	Give a spoken presentation in Spanish that communicates information, ideas and opinions	Int	4	N	N
AS91151	Demonstrate understanding of a variety of written/visual Spanish text(s) on familiar matters	Ext	5	N	N
AS91148	Demonstrate understanding of a variety of spoken Spanish texts on familiar matters	Ext	5	N	N
<i>Optional</i>					
AS01149	Interact using spoken Spanish to share information and justify ideas and opinions in different situations	Int	5	N	N

Course Highlights: The course consolidates and develops the four language areas of listening, speaking, reading and writing through a variety of resources and topics which will extend into areas less familiar to students. Students will become comfortable interacting with native speakers, and will be able to explain and debate their ideas and opinions. In addition, there is another internal Achievement Standard 2.3: *Interact using spoken Spanish to share information and justify ideas and opinions in different situations* (5 credits), students can elect to attempt this standard based on interest and ability.

Vocational Pathway: Creative Industries, Social and Community Services, Services Industries.

This course can lead to: Level 3; AFS Language Immersion Scholarships to live in a Spanish Country, greater job opportunities in: tourism, commerce, diplomacy, teaching, journalism or any career of your choice. Knowing Spanish will also help with learning specialist scientific vocabulary.

For more information, please see Ms Gemmell.

**Course Title: Te Reo Māori L2 (12TEREO)**

**Pre-Requisites:** Students should be motivated and resilient. They should have completed Year 11 Te Reo or taken Te Reo in Year 10.

**Course Cost:** Potential trip to Matatini, Koroneihana and Hauraki Festival - \$80 (tbc)

**Total Credits Available:** 28      **Internally assessed:** 16      **Externally Assessed:** 12

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91284	Whakarongo kia mōhio ki te reo o te ao torotoro	Int	4	N	N
AS91285	Kōrero kia whakamahi i te reo o te ao torotoro	Int	6	N	N
AS91288	Waihanga tuhinga auaha, i te reo o te ao torotoro	Int	6	N	W
AS91286	Pānui kia mōhio ki te reo o te ao torotoro	Ext	6	N	R
AS91287	Tuhi i te reo o te ao torotoro	Ext	6	N	R&W

**Course highlights:** Research famous people. Develop a better understanding of biculturalism and Te Reo Māori. Learn a number of local waiata, haka and be confident to speak, research and explore parts of Aotearoa.

**Vocational Pathway:** Creative Industries.

This course can lead to: Level 3 course. Many more employment opportunities, such as teaching, Government public service, the Law, to name a few. A better understanding of New Zealand and what it means to be a New Zealander.

For more information, please see Teacher in Charge of Te Reo Māori, Whaea Arleen.

**Course Title: Te Reo Māori L3 (13TEREO)**

**Pre-Requisites:** Students should be motivated and resilient. They should have completed Year 11 Te Reo or taken Te Reo in Year 10.

**Course Cost:** Potential trip to Matatini, Koroneihana and Hauraki Festival - \$80 (tbc)

**Total Credits Available:** 28

**Internally Assessed:** 16

**Externally Assessed:** 12

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91650	Whakarongo kia mōhio ki te reo Māori o te ao whānui	Int	4	N	N
AS91651	Kōrero kia whakamahi i te reo Māori o te ao whānui	Int	6	N	N
AS91654	Waihanga tuhinga whai take i te reo Māori o te ao Whānui	Int	6	N	W
AS91652	Pānui kia mōhio ki te reo Māori o te ao whānui	Ext	6	N	R
AS91653	Tuhi i te reo Māori o te ao whānui	Ext	6	N	W

**Course highlights:** Research famous people, develop better understanding of biculturalism and Te Reo Māori. Learn a number of local waiata, haka and be confident to speak, research, explore, parts of Aotearoa.

**Vocational Pathway:** Creative Industries.

**This course can lead to:** Many more employment opportunities, better understanding of New Zealand and what it means to be a New Zealander.

For more information, please see Teacher in Charge of Te Reo Māori, Whaea Arleen.

# ENGLISH

**Course Title:** English L2 (12ENG1)

**Pre-Requisites:** 16 credits at Level 1

**Course Costs:** \$10 for Course Book

**Total Credits Available:** 21

**Internally Assessed:** 17

**Externally Assessed:** 4

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91105	Use information literacy skills to form developed conclusion(s)	Int	4	N	R
AS91101	Produce a selection of crafted and controlled writing	Int	6	N	W
AS91107	Analyse aspects of visual and/or oral text(s) through close viewing and/or listening, supported by evidence	Int	3	N	N
AS91106	Form personal responses to independently read texts, supported by evidence	Int	4	N	R&W
<i>Optional to be confirmed depending on student's progress to date</i>					
AS91099	Analyse specified aspect(s) of studied visual or oral text(s), supported by evidence	Ext	4	N	W

**Course Highlights:** Writing portfolio, developing critical thinking and analytical skills and applying these to written text and film. This course supports a strong academic programme for students who enjoy English, have strong reading and writing skills, can confidently sit external exams and who are considering tertiary study.

**Vocational Pathway:** Manufacturing and Technology, Construction and Infrastructure, Creative Industries, Primary Industries, Social and Community Services, Services Industries.

This course can lead to: Increasing enjoyment of reading, writing and speaking. Leads to English at Level 3. Upon successful completion of the course students gain University Entrance Literacy. A subject endorsement is available from this course.

For more information, please see the Head of English, Ms Scott or your Year 11 English teacher.

**Course Title: English L3 (13ENG1)**

**Pre-Requisites: 12 credits at Level 2**

**Course Costs: \$10 for Course Book**

**Total Credits Available: 20**

**Internally Assessed: 16**

**Externally Assessed: 0**

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91475	Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas	Int	6	N	W
AS91480	Respond critically to significant aspects of visual and/or oral text(s) through close reading, supported by evidence	Int	3	N	N
AS91478	Respond critically to significant connections across texts, supported by evidence	Int	4	N	N
<i>Select ONE of the options below:</i>					
AS91477	Create and deliver a fluent and coherent visual text which develops, sustains and structures ideas	Int	3	N	N
OR					
AS91476	Create and deliver a fluent and coherent oral text which develops, sustains, and structures ideas	Int	3	N	N

**Course Highlights:** Writing portfolio, developing critical thinking and analytical skills and applying these to written text and film. This course supports a strong academic programme for students who enjoy English, have already demonstrated strong reading and writing skills at Level 2, and who are considering tertiary study.

**Vocational Pathway:** Manufacturing and Technology, Construction and Infrastructure, Creative Industries, Primary Industries, Social and Community Services, Services Industries.

This course can lead to: Increasing enjoyment of reading, writing and speaking. Successful completion of the course counts towards University Entrance. If students do not already have University Entrance Literacy, they must ensure they can obtain Reading credits from another subject. A subject endorsement is available from this course.

For more information, please see the Head of English, Ms Scott or your Year 12 English teacher.



# HEALTH, OUTDOOR EDUCATION, PHYSICAL EDUCATION

**Course Title:** Physical Education L2 (12PE)

**Pre-Requisites:** HoL Approval

**Course Costs:** \$30

**Total Credits Available:** 16

**Internally Assessed:** 16

**Externally Assessed:** 0

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91328	Demonstrate understanding of how biophysical principles relate to the learning of physical skills	Int	5	N	N
AS91329	Demonstrate understanding of the application of biophysical principles to training for physical activity	Int	4	N	N
AS91330	Perform a physical activity in an applied setting	Int	4	N	N
AS91335	Examine the implementation and outcomes of a physical activity event or opportunity	Int	3	N	N

**Course Highlights:** Physical Education covers the topics of anatomy, biomechanics, exercise physiology, personal training, teaching and motor skill learning using an applied learning context. Students can take a selection of the standards listed above in a personalised learning programme at the discretion of the Head of Health and Physical Education, Mr Aislabie.

**Vocational Pathway:** Primary Industries, Social and Community Services, Services Industries.

This course can lead to: Level 3 course. Careers as a Teacher, Nurse, Personal Trainer, Group Fitness Instructor, Army, Navy, Police, Ambulance Officer, Coach, Physiotherapist, Health Sciences, and Trainer.

For more information, please see Head of Health & PE, Mr Aislabie.

**Course Title: Outdoor Education L2 (12OED)**

Pre-Requisites: HoL Approval

Course Costs: \$270

Total Credits Available: 14

Internally Assessed: 14

Externally Assessed: 0

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91329	Demonstrate understanding of the application of biophysical principles to training for physical activity	Int	4	N	N
AS91330	Perform a physical activity in an applied setting	Int	4	N	N
AS91333	Analyse the application of risk management strategies to a challenging outdoor activity	Int	3	N	N
AS91335	Examine the implementation and outcomes of a physical activity event or opportunity	Int	3	N	N

Course Highlights: Students will have the opportunity to participate in a range of outdoor activities, including mountain biking, adventure-based learning games, bike packing and/or tramping.

Vocational Pathway: Social and Community Services, Services Industries.

This course can lead to: Level 3 course. Careers in the outdoor and tourism industry, for example Outdoors Instructor and Tour Guide.

For more information, please see Head of Health & PE, Mr Aislabie.

**Course Title:** Physical Education L3 (13PE)

**Pre-Requisites:** HoL Approval

**Course Costs:** \$30

**Total Credits Available:** 15

**Internally Assessed:** 15

**Externally Assessed:** 0

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91499	Analyse a physical skill performed by self or others	Int	3	N	N
AS91500	Evaluate the effectiveness of a performance improvement programme	Int	4	Y	N
AS91501	Demonstrate quality performance of a physical activity in an applied setting	Int	4	Y	N
AS91789	Devise strategies for a physical activity outcome	Int	4	Y	N

**Course Highlights:** Physical Education covers the topics of anatomy, biomechanics, exercise physiology, training programmes and motor skill learning using an applied learning context.

**Vocational Pathway:** Primary Industries, Social and Community Services, Services Industries.

This course can lead to: careers as a Teacher, Nurse, Personal Trainer, Group Fitness Instructor, Army, Navy, Police, Ambulance Officer, Coach, Physiotherapist, Health Sciences, and Trainer.

For more information, please see Head of Health & PE, Mr Aislable.

**Course Title: Outdoor Education L3 (13OED)**

Pre-Requisites: HoL Approval

Course Costs: \$340

Total Credits Available: 18

Internally Assessed: 18

Externally Assessed: 0

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91499	Analyse a physical skill performed by self or others	Int	3	N	N
AS91500	Evaluate the effectiveness of a performance improvement programme	Int	4	Y	N
AS91502	Examine a current trend or issue impacting on New Zealand Society	Int	4	N	R
AS91504	Analyse issues in safety management for outdoor activity to devise safety management strategies	Int	3	N	R
AS91789	Devise strategies for a physical activity outcome	Int	4	N	N

Course Highlights: Students will have the opportunity to participate in a range of outdoor activities such as indoor rock climbing, tramping, flat water kayaking and/or mountain biking.

Vocational Pathway: Social and Community Services, Services Industries.

This course can lead to: careers in the outdoor and tourism industry, for example Outdoors Instructor and Tour Guide.

For more information, please see Head of Health & PE, Mr Aislabie.

# MATHEMATICS

## CALCULUS, STATISTICS

**Course Title:** Mathematics L2a (12MATHS)

**Pre-Requisites:** Completion of Level 1 Full Achievement Standard course. Some competence in Algebra at Level 1

**Course Costs:** Workbook \$28

**Total Credits Available:** 18

**Internally Assessed:** 13

**Externally Assessed:** 5

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91257	Apply graphical methods in solving problems	Int	4	Y	N
AS91259	Apply trigonometric relationships in solving problems	Int	3	Y	N
AS91260	Use networks in solving problems	Int	2	Y	N
AS91264	Use statistical methods to make an inference	Int	4	Y	N
AS91262	Apply calculus methods in solving problems	Ext	5	Y	N

**Course Highlights:** This course is for students who need Mathematics at Level 2 for their future study or career. It is strongly recommended for students doing Physics at Level 2. This course will best prepare students for both Mathematics with Calculus and Mathematics with Statistics at Level 3.

**Vocational Pathway:** Manufacturing and Technology, Construction and Infrastructure, Creative Industries, Primary Industries, Social and Community Services, Services Industries.

This course can lead to: Mathematics with Calculus and/or Level 3 Mathematics with Statistics.

For more information, please see Head of Maths, Mr Darby or your Level 1 Maths Teacher.

**Course Title: Mathematics L2b (12MATHSB)**

Pre-Requisites: Completion of Level 1 Full Mathematics course

Course Costs: Workbook \$28.00

Total Credits Available: 11

Internally Assessed: 11

Externally Assessed: 0

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91258	Apply sequences and series in solving problems	Int	2	Y	N
AS91259	Apply trigonometric relationships in solving problems	Int	3	Y	N
AS91260	Use networks in solving problems	Int	2	Y	N
AS91264	Use statistical methods to make an inference	Int	4	Y	N

Course Highlights: This course is for students who need Mathematics at Level 2 for their future study or career, or who need Mathematics with Statistics at Level 3. It places an emphasis on Statistics and Probability.

Vocational Pathway: Manufacturing and Technology, Construction and Infrastructure, Creative Industries, Primary Industries, Social and Community Services, Services Industries.

This course can lead to: Mathematics with Statistics, Tertiary study.

For more information, please see Head of Maths, Mr Darby or your Level 1 Maths Teacher.



**Course Title: Mathematics with Calculus L3 (13CALC)**

Pre-Requisites: Students must obtain sufficient credits in Level 2 Mathematics

Course Costs: Nil

Total Credits Available: 27

Internally Assessed: 10

Externally assessed: 17

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91573	Apply the geometry of conic sections in solving problems	Int	3	Y	N
AS91575	Apply trigonometric methods in solving problems	Int	4	Y	N
AS91578	Apply differentiation methods in solving problems	Ext	6	Y	N
AS91579	Apply integration methods in solving problems	Ext	6	Y	N
<i>Depending on University prerequisites: Option 1 or 2</i>					
AS91574	Option 1 – Apply linear programming methods in solving problems	Int	3	Y	N
AS91577	Option 2 – Apply the algebra of complex numbers in solving problems	Ext	5	Y	N

Course Highlights: This course builds on Calculus topics covered in Level 2 Maths and applies Calculus to real world situations. The course complements Level 3 Physics. Completing problems outside of class time is pivotal to success in this course.

Vocational Pathway: Manufacturing and Technology, Construction and Infrastructure, Creative Industries.

This course can lead to: Tertiary study in Mathematics. This course is recommended for students wishing to study Physical Sciences or Engineering at University.

For more information, please see Head of Maths, Mr Darby or Ms Park.

**Course Title: Mathematics with Statistics L3 (13STATS)**

Pre-Requisites: Completion of Level 2 Maths to a sufficient standard

Course Costs: \$47-\$54

Total Credits Available: 19

Internally Assessed: 15

Externally Assessed: 4

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91580	Investigate time series data	Int	4	N	N
AS91581	Investigate bivariate measurement data	Int	4	N	N
AS91582	Use statistical methods to make a formal inference	Int	4	N	N
AS91587	Apply systems of simultaneous equations in solving problems (optional)	Int	3	N	N
AS91586	Apply probability distributions in solving problems	Ext	4	N	N

Course Highlights: This course is appropriate for students who wish to continue statistics study at Year 13. It provides adequate preparation for Tertiary study in statistics or applied mathematics, and a solid base for other University disciplines with a statistics component. This course aims to build on prior statistics knowledge, and extend students' abilities to tackle modelling and problem-solving situations. It provides an introduction to probability concepts including notation, Venn diagrams and procedures, based on normal and Binomial and Poisson distributions. Develops students' awareness of the application and usefulness of statistics.

Vocational Pathway: Manufacturing and Technology, Construction and Infrastructure, Creative Industries.

This course can lead to: Tertiary study in Mathematics and Statistics, tertiary study in other disciplines with a statistics component.

For more information, please see Head of Maths, Mr Darby or Mrs Wade.

# SCIENCE

## AGRICULTURAL SCIENCE, BIOLOGY, CHEMISTRY, PHYSICS

**Course Title:** Agricultural Science L2 (12AGR)

**Pre-Requisites:** Minimum of 7 credits in Agriculture at Level 1 or approval from Mrs Spindler based on Level 1 Science results

**Course Costs:** \$25 approximately for workbook

**Total Credits Available:** 16

**Internally Assessed:** 12

**Externally Assessed:** 4

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91295	Demonstrate understanding of interactions between livestock behaviour and NZ commercial management practices	Int	4	N	N
AS91293	Demonstrate understanding of livestock reproductive techniques	Int	4	N	N
AS91298	Report on the environmental impact of a locally produced primary product	Int	4	N	N
AS91297	Demonstrate understanding of land use for primary production in New Zealand	Ext	4	N	N

**Course Highlights:** Students learn about the practice and theory of agricultural production in a New Zealand context.

**Vocational Pathway:** Primary Industries.

This course can lead to: Confident applications for cadetships in the industry as well as further study at a higher level in Agriculture, Horticulture or any other Primary Industry.

For more information, please see Mrs Spindler.

**Course Title: Agricultural Science L3 (13AGR)**

Pre-Requisites: Minimum of 8 credits in Level 2 Agriculture or approval from Mrs Spindler based on other level 2 results

Course Costs: tbc

Total Credits Available: 19

Internally Assessed: 14

Externally Assessed: 5

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91528	Carry out an investigation into a NZ primary product	Int	4	Y	N
AS91529	Research and report on the profitability of a NZ primary product	Int	6	Y	R&W
AS91735	Evaluate measures that may be taken to sustain and/or improve a biophysical environment	Int	4	N	R
AS91532	Analyse a New Zealand primary environmental issue	Ext	5	N	R&W

Course Highlights: This course relies heavily on self-motivation and personal research. However, there is flexibility to allow student choice for the products studied.

Vocational Pathway: Primary Industries.

This course can lead to: Direct employment, cadetship, or entry to tertiary study in any relevant degree course.

For more information, please see Mrs Spindler.

**Course Title: Biology L2 (12BIO)**

Pre-Requisites: Science AS90948 Biology external, AS90944 Chemistry external recommended.  
AS90940 Physics will be considered, or in consultation with the TIC of Biology

Course Costs: Course manual \$25 approx, field trip costs may also apply

Total Credits Available: up to 19 Internally Assessed: 11 max Externally Assessed: 8 max

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91155	Demonstrate Understanding of Plants and Animals to Their Way of Life	Int	3	N	N
AS91153	Carry out an investigation in a biological context	Int	4	N	N
AS91158	Investigate a pattern in an ecological community	Int	4	N	N
AS91159	Demonstrate understanding of gene expression	Ext	4	N	N
AS91556	Demonstrate understanding of life processes at the cellular level	Ext	4	N	N

Please note decisions about standards to be covered are to be confirmed and please note course may vary from the above.

Course Highlights: Practical investigations and overall good grounding in preparation for further study in the Biological Sciences.

Vocational Pathway: Manufacturing and Technology, Primary Industries, Social and Community Services.

This course can lead to: Entry into Year 13 Biology NCEA Level 3. Tertiary study in the Biological/Health Sciences.

For more information, please see Teacher in Charge of Biology, Mr Main.

**Course Title: Biology L3 (13BIO)**

**Pre-Requisites:** Completion of Biology Level 2 recommended with passes in at least two of the external examinations at this level, or in consultation with the TIC of Biology

**Course Costs:** Course manual \$25 approx. Material costs \$10 and field trip costs may also apply

**Total Credits Available:** up to 21    **Internally Assessed:** 9 max    **Externally Assessed:** 12 max

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91602	Integrate biological knowledge to develop an informed response to a socio-scientific issue	Int	3	N	R&W
AS91604	Demonstrate understanding of how an animal maintains a stable internal environment	Int	3	N	R
AS91605	Demonstrate understanding of evolutionary processes leading to speciation	Ext	4	N	R&W
AS91606	Demonstrate understanding of trends in human evolution	Ext	4	N	R&W
<i>Optional</i>					
AS91607	Demonstrate understanding of human manipulations of genetic transfer and its biological implications	Int	3	N	R

Note: Final course content is subject to the discretion of the Teacher in Charge of Biology. AS91604 is an optional internal. Most students sit at least two externals.

**Course Highlights:** The Year 13 Biology course serves as a good general grounding in the Biological Sciences including preparation for further study at a tertiary level. For students not intending to further their Biology studies past this level, the course will help them make informed decisions around contemporary Biological issues.

**Vocational Pathway:** This course can lead to careers in: Manufacturing and Technology, Primary Industries, Social and Community Services.

This course can lead to: Continuing with tertiary studies in the Biological Sciences in preparation for a wide range of career options.

For more information, please see Teacher in Charge of Biology, Mr Main.

**Course Title: Chemistry L2 (12CHEM)**

Pre-Requisites: A pass in Level 1 Acids and Bases is preferred but students with 12 credits in Level 1 Chemistry will be considered after consultation with TIC Chemistry

Course Costs: Workbook approximately \$40.00

Total Credits Available: 23 Internally Assessed: 10 Externally Assessed: 13

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91910	Carry out a practical investigation into a substance present in a consumer product using quantitative analysis	Int	4	Y	N
AS91911	Carry out an investigation into chemical species present in a sample using qualitative analysis	Int	3	N	N
AS91167	Demonstrate understanding of oxidation-reduction	Int	3	N	N
AS91164	Demonstrate understanding of bonding, structure, properties and energy changes	Ext	5	Y	W
AS91165	Demonstrate understanding of the properties of selected organic compounds	Ext	4	N	W
AS91166	Demonstrate understanding of chemical reactivity	Ext	4	Y	N

Note: Final course content is subject to the discretion of the Teacher in Charge of Chemistry. Students are expected to sit at least two externals.

This is a pre-requisite for Level 3 Chemistry.

Course Highlights: This is an introductory course into the study of Chemistry. It covers the basic concepts and skills needed to go on to further study of Chemistry at either Level 3 or in a Tertiary institution. A knowledge of Chemistry is fundamental for almost any science, engineering, agricultural or health science degree or career.

Vocational Pathway: Manufacturing and Technology, Construction and Infrastructure, Primary Industries, Social and Community Services.

This course can lead to: Level 3 Chemistry, Tertiary Study, employment and careers in Farming, Science Technician, Nurse, Veterinary Nurse, Agricultural/ Horticultural Technician.

For more information, please see Teacher in Charge of Chemistry, Mr Masters.

**Course Title: Chemistry L3 (13CHEM)**

**Pre-Requisites:** A pass in Level 2 Chemistry, or in exceptional circumstances in consultation with TIC Chemistry

**Course Costs:** Workbook approximately \$40.00

**Total Credits Available:** 28      **Internally Assessed:** 13      **Externally Assessed:** 15

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91389	Demonstrate understanding of chemical processes in the world around us	Int	3	N	W
AS91388	Demonstrate understanding of spectroscopic data in chemistry	Int	3	N	N
AS91387	Carry out an investigation in chemistry involving quantitative analysis	Int	4	N	W
AS91393	Demonstrate understanding of oxidation-reduction processes	Int	3	N	N
AS91390	Demonstrate understanding of thermochemical principles and the properties of particles and substances	Ext	5	N	W
AS91391	Demonstrate understanding of the properties of organic compounds	Ext	5	N	W
AS91392	Demonstrate understanding of equilibrium principles in aqueous systems	Ext	5	N	W

Note: Not all the above standards will be covered. Final course content is subject to discussion between the Teacher in Charge of Chemistry and the student. Most students sit at least two externals.

**Course Highlights:** This course further builds on Level 2 study, further developing students' knowledge and skills in Chemistry. A knowledge of Chemistry is fundamental for almost any science, engineering, agricultural or health science degree or career.

**Vocational Pathway:** Manufacturing and Technology, Construction and Infrastructure, Primary Industries, Social and Community Services.

This course can lead to: careers including Engineer, Farmer, Scientist, Nurse, Veterinarian, Medical Doctor.

For further information, please see Teacher in Charge of Chemistry, Mr Masters.



**Course Title: Physics L2 (12PHYS)**

Pre-Requisites: AS90940 Mechanics recommended

Course Costs: Workbook \$30, Write-On Notes \$10

Total Credits Available: 23 Internally Assessed: 7

Externally Assessed: 16

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91168	Carry out a practical physics investigation that leads to a non-linear mathematical relationship	Int	4	N	N
AS91172	Demonstrate understanding of atoms and nuclear physics	Int	3	N	N
AS91173	Demonstrate understanding of electricity and electromagnetism	Ext	6	N	N
AS91170	Demonstrate understanding of waves	Ext	4	N	N
AS91171	Demonstrate understanding of mechanics	Ext	6	N	N

Note: Content may vary from the above depending on student achievement.

Course Highlights: Physics lies at the heart of the natural sciences and explains how the world works. Almost any scientific problem can be approached using the ideas and methods of Physics. Physicists, and students studying Physics, are able to use their understanding to predict how an object will behave under particular conditions, improve the functioning of everyday objects, and envisage totally new developments. A knowledge of Physics is useful and exciting!

Vocational Pathway: Construction and Infrastructure, Manufacturing and Technology, Primary Industries, Social and Community Services.

This course can lead to: Learning in Physics will come in useful no matter what you go on to do. Employers value the kinds of skills that studying Physics develops: the ability to grasp things quickly, focussed solution finding, plus problem solving, analytical, mathematical, and IT skills. People with a background in Physics are found in all these areas and more: telecommunications, electronics, electrical trades, space, medicine, finance, law, music, television, environment, architecture, engineering, sports, gaming, energy, and education. Level 3 course.

At Te Aroha College, Level 2 Physics is a compulsory pre-requisite for Level 3 Physics.

For more information, please see Head of Science, Mr Kurian.

**Course Title: Physics L3 (13PHYS)**

**Pre-Requisites:** Level 2 Physics and Level 2 Maths – minimum of Achieved grades in all Achievement Standards, including at least 1 Merit pass in each subject

**Course Costs:** Workbook \$30, Write-On Notes \$10, OsPEn Day \$10 per student (approx)

**Total Credits Available:** 23                      **Internally Assessed:** 7                      **Externally Assessed:** 16

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91521	Carry out a practical physics investigation with guidance, that leads to a mathematical relationship	Int	4	N	N
AS91525	Demonstrate understanding of atoms, photon and nuclei	Int	3	N	N
AS91526	Demonstrate understanding of electrical systems	Ext	6	N	N
AS91523	Demonstrate understanding of wave systems	Ext	4	N	N
AS91524	Demonstrate understanding of mechanical systems	Ext	6	N	N

**Note:** It is highly recommended that Level 3 Physics is taken in conjunction with Level 3 Calculus. Content may vary from the above depending on student achievement.

**Course Highlights:** Leading on from Level 2 Physics, this course provides more in-depth coverage of the basic ideas and concepts of Physics. In preparation for tertiary education, students can enjoy a more intellectual approach and are expected to be motivated, independent learners.

**Vocational Pathway:** Construction and Infrastructure, Manufacturing and Technology, Primary Industries, Social and Community Services.

This course can lead to: Learning in Physics will come in useful no matter what you go on to do. Employers value the kinds of skills that studying Physics develops: the ability to grasp things quickly, focussed solution finding, plus problem solving, analytical, mathematical, and IT skills. Level 3 Physics leads directly to higher levels of study at tertiary institutions and is a pre-requisite for many professional degrees such as surveying, architecture, engineering, medicine and dentistry.

For more information, please see Head of Science, Mr Kurian.

# SOCIAL SCIENCE

## CLASSICAL STUDIES, GEOGRAPHY, HISTORY, TOURISM

**Course Title:** Classical Studies L2 (12CLA)

**Pre-Requisites:** Nil

**Course Costs:** Nil

**Total Credits Available:** 20

**Internally Assessed:** 10

**Externally Assessed:** 10

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91202	Demonstrate understanding of a significant event in the classical world	Int	4	N	R
AS91204	Demonstrate understanding of the relationship between aspects of the classical world and aspects of other cultures	Int	6	N	R
AS91200	Examine ideas and values of the classical world	Ext	4	N	R&W
AS91203	Examine socio-political life in the classical world.	Ext	6	N	R&W

**Course Highlights:** Exploring the politics, religions and customs of ancient Rome and Greece and how they impact on our world today. This course supports a programme for students who enjoy history and who have strong reading and writing skills.

**Vocational Pathway:** Creative Industries.

This course can lead to: careers such as diplomacy, law, local and national government, politics, negotiation or education. Level 3 course.

For more information, please see Mr Daroux.

**Course Title: Classical Studies L3 (13CLA)**

Pre-Requisites: Nil

Course Costs: Nil

Total Credits Available: 22

Internally Assessed: 12

Externally Assessed: 10

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91397	Demonstrate understanding of significant ideology(ies) in the classical world	Int	6	N	R
AS91398	Demonstrate understanding of the lasting influences of the classical world on other cultures across time	Int	6	N	R
AS91396	Analyse the impact of a significant historical figure on the classical world	Ext	6	N	R&W
AS91394	Analyse ideas and values of the classical world.	Ext	4	N	R&W

Course Highlights: Exploring the politics, religions and customs of ancient Rome and Greece and how they impact on our world today. This course supports a programme for students who enjoy history and who have strong reading and writing skills.

Vocational Pathway: Creative Industries.

This course can lead to: careers such as diplomacy, law, local and national government, politics, negotiation or education.

For more information, please see Mr Daroux.

**Course Title: Geography L2 (12GEO)**

Pre-Requisites: No prerequisites but Level 1 Geography would be an advantage

Course Costs: Field trip to an urban centre

Total Credits Available: up to 21 Internally Assessed: up to 9

Externally Assessed: 12

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91241	Demonstrate geographic understanding of an urban pattern	Int	3	N	N
AS91245	Explain aspects of a contemporary New Zealand geographic issue	Int	3	N	N
AS91246	Explain aspects of a geographic topic at a global scale	Int	3	N	N
AS91240	Demonstrate geographic understanding of a large natural environment	Ext	4	Y	W
AS91242	Demonstrate geographic understanding of differences in development	Ext	4	N	R&W
AS91243	Apply geography concepts and skills to demonstrate understanding of a given environment	Ext	4	Y	N

Course highlights: Geography is a social science and teaches students how to look at issues and problems using different viewpoints or perceptions. It develops an understanding of the world as our home and teaches understanding of global issues and concerns. Geographic skills are an important part of the programme which includes mapping, graphing, visual and field work skills. All three external Achievement Standards are offered and this body of knowledge is often the basis for the internal assessments. To be successful at all levels students need to be well organised, with an ability to think locally, nationally and globally and be able to apply the knowledge they have learned in a range of contexts.

Vocational Pathway: Construction and Infrastructure, Creative Industries, Primary Industries, Social and Community Services, Services Industries.

This course can lead to: Level 3 Geography, employment in farming, University, environmental studies, farming and flying.

For more information, please see Mr Aitken.

**Course Title: Geography L3 (13GEO)**

Pre-Requisites: No prerequisites but Level 2 Geography would be an advantage

Course Costs: Field trip to a coastal environment

Total Credits Available: up to 26 Internally Assessed: up to 14 Externally Assessed: 12

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91428	Analyse a significant contemporary event from a geographic perspective	Int	3	N	W
AS91430	Conduct geographic research with consultation	Int	5	Y	N
AS91431	Analyse aspects of a contemporary geographic issue	Int	3	N	W
AS91432	Analyse aspects of a geographic topic at a global scale	Int	3	N	W
AS91426	Demonstrate understanding of how interacting natural processes shape a NZ geographic environment(s)	Ext	4	N	R&W
AS91241	Demonstrate understanding of how a cultural process shapes geographic environment(s)	Ext	4	N	R&W
AS91429	Demonstrate understanding of a given environment through the selection and application of geographic concepts and skills	Ext	4	Y	R&W

Course highlights: Geography is a social science and teaches students how to look at issues and problems using different viewpoints or perceptions. It develops an understanding of the world as our home and teaches understanding of global issues and concerns. Geographic skills are an important part of the programme which includes mapping, graphing, visual and field work skills. All three external Achievement Standards are offered and this body of knowledge is often the basis for the internal assessments. To be successful at all levels students need to be well organised, with an ability to think locally, nationally and globally and be able to apply the knowledge they have learned in a range of contexts.

Vocational Pathway: Construction and Infrastructure, Creative Industries, Primary Industries, Social and Community Services, Services Industries.

This course can lead to: employment in farming, geology, environmental studies and flying.

For more information, please see Mr Aitken.

**Course Title: History L2 (12HIST)**

Pre-Requisites: At least 8 credits in L1 History, or permission from Head of Social Sciences

Course Costs: Nil (with exception of stationery)

Total Credits available: 23

Internally Assessed: 14

Externally Assessed: 9

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91229	Carry out an inquiry of an historical event or place that is of significance to New Zealanders	Int	4	N	R
AS91230	Examine an historical event or place of significance to New Zealanders	Int	5	N	R
AS91232	Interpret different perspectives of people in an historical event that is of significance to New Zealanders	Int	5	N	R
AS91233	Examine causes and consequences of a significant historical event	Ext	5	N	R&W
AS91231	Examine sources of an historical event that is of significance to New Zealanders	Ext	4	N	R&W

Course Highlights: Students study a range of protest movements and events in Level 2 History, both individually and as a class. Class based investigations include analysing differing perspectives of the Russian Revolution, the lasting impact of the Vietnam War, the significance of the Parihaka movement on New Zealand society and many other case studies. Students get to choose their own individual historical event to research, which gives them a chance to explore different areas of history that interest them.

Level 2 History is an ideal way to attain University Entrance Literacy, as all internal assessments have UE reading credits. Both external examinations contain reading and writing credits for University Entrance Literacy. Students learn to perfect the essential skills of critical thinking, essay writing, source analysis, research expertise, historiography, referencing methods, plus many other valuable skills throughout the course.

History is dynamic and exciting. It can spark students' curiosity and imagination in the world around them and make them more aware of how society was shaped by the events of history. This awareness can ensure students go on to improve their future by understanding the past. History is an essential subject for anyone thinking of going on to University, as it provides the framework to ensure the transition into tertiary study is seamless.

Vocational Pathway: Primary Industries, Service Industries, Creative Industries.

This course can lead to: Level 3 History. Careers in government, teaching, diplomacy, law, research, marketing and any type of tertiary study.

For more information, please see Head of Social Sciences, Ms Halford.

**Course Title: History L3 (13HIST)**

Pre-Requisites: At least 8 credits in L2 History, or permission from the Head of Social Sciences

Course Costs: Nil (with the exception of stationery)

Total Credits available: 25

Internally Assessed: 15

Externally Assessed: 10

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91434	Research an historical event or place of significance to New Zealanders, using primary and secondary sources	Int	5	N	R
AS91435	Analyse a historical event, or place, or significance to New Zealanders	Int	5	N	R
AS91437	Analyse different perspectives of a contested event of significance to New Zealanders	Int	5	N	R
AS91438	Analyse the causes and consequences of a significant historical event	Ext	6	N	R&W
AS91436	Analyse evidence relating to an historical event of significance to NZ	Ext	4	N	R&W

Course Highlights: Students study a range of historical events and movements in Level 3 History, both individually and as a class. Class based investigations include analysing differing perspectives of the My Lai Massacre during the Vietnam War, the significance of the 1981 Springbok Tour, the Cold War and its lasting impact today and many other case studies. Students choose their own individual historical event to research, which gives them a chance to explore different areas of history that interest them.

Level 3 History is the ideal path to University Entrance and beyond. University Entrance for this subject can be gained through internals only (15 internal credits offered) as well as a combination of both internals and externals. All internal assessments have University Entrance Literacy reading credits and both external examinations contain reading and writing credits for University Entrance Literacy. Students learn to perfect the essential skills of critical thinking, essay writing, source analysis, research expertise, historiography, referencing methods, plus many other valuable skills throughout the course.

History is dynamic and exciting. It can spark students' curiosity and imagination in the world around them and make them more aware of how society has been shaped by events of history. This awareness can ensure students go on to improve their future by understanding the past. History is an essential subject for anyone thinking of going on to University, as it provides the framework to ensure the transition into tertiary study is seamless.

Vocational Pathway: Primary Industries, Service Industries, Creative Industries.

This course can lead to: careers in government, teaching, diplomacy, law, research, marketing and any type of tertiary study.

For more information, please see Head of Social Sciences, Ms Halford.



# TECHNOLOGY

## DIGITAL TECHNOLOGY, DESIGN TECHNOLOGY, FOOD TECHNOLOGY, CONSTRUCTION AND ENGINEERING

**Course Title:** Digital Technology - Computer Applications L2 (12COMPA)

**Pre-Requisites:** None

**Course Costs:** None

**Total Credits Available:** 17

**Internally Assessed:** 14

**Externally Assessed:** 3

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91890	Conduct an inquiry to propose a digital technologies outcome	Int	6	N	N
AS91892	Use advanced techniques to develop a database	Int	4	N	N
AS91893	Use advanced techniques to develop a digital media outcome	Int	4	N	N
AS91899	Present a summary of developing a digital outcome	Ext	3	N	N

**Course Highlights:** Students will further develop their skills in information communication technologies. Including the common office applications, Word Processing, Spread Sheets, Desktop Publishing and Databases. Web Design will be approached graphically using Photoshop elements. Student will further their ability to design and construct a web outcome using advanced procedures, using a variety of programming languages such as HTML, CSS, JavaScript and PHP.

**Vocational Pathway:** Manufacturing and Technology, Creative Industries, Construction and Infrastructure.

This course can lead to: Students will be able to use computers effectively and understand how programs perform specific functions. Students will be able to apply basic planning skills and problem solve common user problems with computer applications. This is an essential subject for all students looking to work in any non-labour industry as computer technology is prolific and embedded in modern communications. Level 3 course.

For more information, please see Ms Gemmell.

**Course Title: Digital Technology - Computer Applications L3 (13COMPA)**

Pre-Requisites: A Level 1 or 2 Technology Project

Course Costs: None

Total Credits Available: 17

Internally Assessed: 14

Externally Assessed: 3

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91900	Conduct a critical inquiry to propose a digital technologies outcome	Int	6	N	N
AS91902	Use complex techniques to develop a database	Int	4	Y	N
AS91903	Use complex techniques to develop a digital media outcome	Int	4	N	N
AS91909	Present a reflective analysis of developing a digital outcome	Ext	3	N	N

Course Highlights: Students will look at the quality of digital information and various data systems then write a report for the external assessment. Students will then build a relational database and embed the outcome into real world digital media outcome, such as a website. Students will demonstrate complex procedures to build an interactive and responsive website outcome using a variety of programming languages such as: HTML, CSS, JavaScript, PHP.

Vocational Pathway: Manufacturing and Technology, Creative Industries, Construction and Infrastructure.

This course can lead to: Students who have successfully completed this course will be able to use it for University Entrance. The project management skills, interpersonal and social skills developed will be invaluable in any workplace environment.

For more information, please see Ms Gemmell.

**Course Title: Digital Technology - Computer Science L2 (12COMPS)**

Pre-Requisites: A high level of Computer/Digital Literacy, Mathematics and/or Science

Course Costs: None

Total Credits Available: 21 Internally Assessed: 18 Externally Assessed: 3

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91896	Use advanced programming techniques to develop a computer program	Int	6	N	N
AS91897	Use advanced processes to develop a digital technologies outcome	Int	6	N	N
AS91890	Conduct an inquiry to propose a digital technologies outcome	Int	6	N	N
AS91899	Present a summary of developing a digital outcome	Ext	3	N	N

Course Highlights: Students will develop their ability to write computer code to the point that they will be able to write their own advanced computer program. During this process they will be developing their understanding of advanced concepts of computer science.

Vocational Pathway: Manufacturing and Technology, Creative Industries, Construction and Infrastructure.

This course can lead to: a wide range of careers in agriculture, engineering, software development, business administration, web design or other areas yet to be invented. Level 3 course.

For more information, please see Ms Gemmell.

**Course Title: Digital Technology - Computer Science L3 (13COMPS)**

Pre-Requisites: 14 Credits in Level 2 Computer Science or Level 2 Mathematics

Course Costs: Nil

Total Credits Available: 21

Internally Assessed: 18

Externally Assessed: 3

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91900	Conduct a critical enquiry to propose a digital technologies outcome	Int	6	N	N
AS91906	Use complex programming techniques to develop a computer program	Int	6	N	N
AS91907	Use complex processes to develop a digital technologies outcome	Int	6	N	N
AS91909	Present a reflective analysis of developing a digital outcome	Ext	3	N	N

Course Highlights: Students will develop their own proposal for a complex computer program for use in a real-world industry context. They will then plan and develop this program using industry-standard development techniques.

Vocational Pathway: Manufacturing and Technology, Creative Industries, Construction and Infrastructure.

This course can lead to: a wide range of careers in agriculture, engineering, software development, business administration, web design or other areas yet to be invented.

For more information, please see Ms Gemmell.

**Course Title: Design Technology L2 (12DESIGN)**

Pre-Requisites: Year 11 Design or Art

Course Costs: Nil

Total Credits Available: 24

Internally Assessed: 18

Externally Assessed: 6

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91341	Develop a spatial design through graphics practice	Int	6	N	N
AS91342	Product design	Int	6	N	N
AS91343	Presentation	Int	6	N	N
AS91337	Visual communication	Ext	3	N	N
AS91338	Computer modelling	Ext	3	N	N

Course Highlights: No exam. Assessment by folio submission. Full Achievement Standards course. Wide range of standards to choose from according to student interests and strengths. Credits from Level 3. Computer modelling. Subject Endorsement. Accelerated programme for suitable students.

Vocational Pathway: Construction and Infrastructure, Manufacturing and Technology, Primary Industries, Creative Industries.

This course can lead to: a wide range of careers. Year 13 Design, Scholarship.

For more information, please see Head of Technology and Design, Mr Pipe.

**Course Title: Design Technology L3 (13DESIGN)**

Pre-Requisites: Year 12 Design or Art

Course Costs: Nil

Total Credits Available: 22

Internally Assessed: 18

Externally Assessed: 4

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91628	Develop a visual presentation that exhibits a design outcome to an audience	Int	6	N	N
AS91630	Resolve a product design through graphics practice	Int	6	N	N
AS91341	<i>Develop a spatial design through graphics practice (Level 2)</i>	<i>Int</i>	6	<i>N</i>	<i>N</i>
AS91627	Initiate design ideas through exploration	Ext	4	N	N

Course Highlights: Scholarship option encouraged. Learn the secret of how to be creative and successful in Design. Design and make a product.

Vocational Pathway: Construction and Infrastructure, Manufacturing and Technology, Primary Industries, Creative Industries.

This course can lead to: A wide range of careers. University Entrance, Scholarship.

For more information, please see Head of Technology and Design, Mr Pipe.

**Course Title: Food Technology L2 (12FOODT)**

Pre-Requisites: Achievement in Food Technology or Hospitality at Level 1

Course Costs: \$105

Total Credits Available: 16

Internally Assessed: 16

Externally Assessed: 0

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading /Writing
AS91351	Implement advanced procedures to process a specified product	Int	4	N	N
AS91356	Develop a conceptual design for an outcome	Int	6	N	N
AS91357	Make and trial a prototype	Int	6	N	N

Course Highlights: In this programme students will learn the skills to produce a specified product, Lemon Meringue Pie or another food item. Following on will require students to produce a product that uses these skills. Their product will have to have a purpose and stakeholders. Level 2 students are required to have a good work ethic and be self motivated.

Vocational Pathway: Manufacturing and Technology, Construction and Infrastructure, Creative Industries, Services Industries.

This course can lead to: the Level 3 programme which focuses on the skills required in the cookery industry.

For more information, please see Mr Rowe.

**Course Title: Food Technology L3 (13FOODT)**

Pre-Requisites: Achievement in Food Technology or Hospitality at Level 1 and/or Level 2

Course Costs: \$105

Total Credits Available: 18

Internally Assessed: 18

Externally Assessed: 0

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading/Writing
AS91643	Implement advanced procedures to process a specified product	Int	6	N	N
AS91610	Develop a conceptual design considering fitness for purpose in the broadest sense	Int	6	N	N
AS91611	Develop a prototype considering fitness in the broadest sense	Int	6	N	N

Course Highlights: In this programme students will learn the skills to produce a specified product. Following on will require students to produce a product that uses these skills. Their product will have to have a purpose and stakeholders. Level 3 students are required to have a good work ethic and be self motivated.

Vocational Pathway: Manufacturing and Technology, Construction and Infrastructure, Creative Industries, Services Industries, Primary Industries.

This course can lead to: Tertiary study in the Food Technology Industry.

For more information, please see Mr Rowe.



**Course Title: Resistant Materials Technology – L2 (12RMT)**

Pre-Requisites: Priority given to those who have completed Y11 Technology

Course Costs: \$120 – special materials/resources additional

Total Credits Available: 28

Internally Assessed: 24

Externally Assessed: 4

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading/Writing
AS91356	Use design ideas to produce a conceptual design for an outcome	Int	6	N	N
AS91344	Implement advanced procedures to make a product	Int	6	N	N
AS91363	Demonstrate an understanding of sustainability in design	Ext	4	N	N
US24350	Identify, select, use and maintain power tools for BCATS projects	Int	6	N	N
US24351	Demonstrate knowledge of and use fixed machinery in construction of BCATS projects	Int	6	N	N

Course highlights: This L2 achievement standard course is offered for students interested in engineering, architecture, or product design. Students gain technology skills and knowledge through designing and making a project using a range of resistant materials such as metal, wood and plastic. All students will do the 6 credit AS91344 Project.

Students will be given a project brief and expected to research design solutions, develop concept designs, and based on stakeholder feedback, make a 3D model of the final design to ensure it is 'fit for purpose'.

Students will then build their project using resources in both the metal and wood technology workshops. While in the workshops they will learn about safety, project planning, material properties, and experience using a range of tools and machines.

Students are encouraged to use the school's CNC router and laser cutter to create special design features for their project.

Vocational Pathway: Manufacturing and Technology, Construction and Infrastructure, Primary Industries.

This course can lead to: School based Level 3 Resistant Materials Technology course.

For more information, please see Mr Ashford-Beck.

**Course Title: Resistant Materials Technology – L3 (13RMT)**

Pre-Requisites: Priority given to those who have completed Y12 Technology

Course Costs: \$120 – special materials/resources additional

Total Credits Available: 17

Internally Assessed: 13

Externally Assessed: 4

Std No	Standard Title	Int/Ext	Credits	Numeracy	UE Literacy Reading/Writing
AS91610	Develop a conceptual design considering fitness for purpose in the broadest sense	Int	6	N	N
AS91622	Implement complex procedures to make a specified product using a CNC	Int	4	N	N
AS91625	Demonstrate understanding of a complex machine	Int	3	N	N
AS91613	Demonstrate understanding of material development	Ext	4	N	R&W

Course highlights: This L3 achievement standard course is offered for students interested in engineering, architecture, or product design. Students gain technology skills and knowledge through designing and making a project using a range of resistant materials such as metal, wood and plastic.

Students will be given a project brief and expected to research design solutions, develop concept designs, and based on stakeholder feedback, make a 3D model of the final design to ensure it is 'fit for purpose'.

Students will then build their project using resources in both the metal and wood technology workshops. While in the workshops they will learn about safety, project planning, material properties, and experience using a range of tools and machines.

Students are encouraged to use the school's CNC router and laser cutter to create special design features for their project.

Vocational Pathway: Manufacturing and Technology, Construction and Infrastructure, Primary Industries.

This course can lead to: Further study at University or other Tertiary Institutions.

For more information, please see Mr Ashford-Beck.

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**The following teaching staff are available should you have any questions:**

**Year 12 Dean – Patrick Aislabie [paislabie@tacol.nz](mailto:paislabie@tacol.nz)**

**Year 13 Dean – David Masters [dmasters@tacol.nz](mailto:dmasters@tacol.nz)**

### **Form Teachers**

**12 Aotea – Brittany Park [bpark@tacol.nz](mailto:bpark@tacol.nz)**

**12 Arawa – Amanda Maber [amaber@tacol.nz](mailto:amaber@tacol.nz)**

**12 Tainui – Jiji Kurian [jkurian@tacol.nz](mailto:jkurian@tacol.nz)**

**12 Tokomaru – Michael Ashford-Beck [mashford-beck@tacol.nz](mailto:mashford-beck@tacol.nz)**

**13 Aotea – Steve Pipe [spipe@tacol.nz](mailto:spipe@tacol.nz)**

**13 Arawa – Torina Halford [thalford@tacol.nz](mailto:thalford@tacol.nz)**

**13 Tainui – TBC**

**13 Tokomaru – David Masters [dmasters@tacol.nz](mailto:dmasters@tacol.nz)**

### **Deputy Principal for Senior School**

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### **NZQA Special Assessment Conditions**

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