

Saint Patrick's College



Senior Course

Selection Information

2018

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General Information

KEY MESSAGES:

Set goals, and plan your success...

Students must set academic and career goals and work towards these. It is essential that students plan their academic pathways through St Patrick's so that they can achieve their career goals. Take the time to find out about careers that you might be interested in, together with what subjects and qualifications you need to enter these careers.

Challenge yourself...

It is important to choose subjects for the right reasons. It is often better to choose more challenging subjects in order to achieve the career that you really want rather than taking easier options that will not.

Take responsibility for your achievement...

Students should take responsibility for planning their career pathways while at St Patrick's College, and working to achieve the prerequisites for the subjects that they want to take. Making the right subject choices for the right reasons will help students enter the careers that they want.

NATIONAL CERTIFICATE OF EDUCATIONAL ACHIEVEMENT:

NCEA Level 1

NCEA Level 1 requires 80 credits. Of these at least 10 credits must be from literacy standards and at least 10 credits must come from numeracy standards.

NCEA Level 2

NCEA Level 2 requires 80 credits, 60 of which must be from Level 2 standards. 20 of these credits can be transferred from credits earned previously at Level 1.

NCEA Level 3

NCEA Level 3 requires 80 credits, 60 of which must be from Level 3 standards. 20 of these credits can be transferred from credits earned previously at Level 2.

ENDORSEMENT CERTIFICATES:

For up-to-date information on Endorsements visit:

<http://www.nzqa.govt.nz/qualifications-standards/qualifications/ncea/understanding-ncea/how-ncea-works/endorsements/>

UNIVERSITY ENTRANCE:

For current information on University Entrance (UE) please visit: <http://www.victoria.ac.nz/study/careers-advisers/guide-to-ncea.pdf>

For information on the literacy requirement for University Entrance please visit

<http://www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/literacy-requirements-2/>

For information on career pathways please visit:

<http://www.careers.govt.nz/>

NAMING OF COURSES:

The 102, 203, 304 courses are the mainstream programmes in the College. They comprise a mix of internally and externally assessed Achievement Standards. These courses are more academic and are designed to enable students to continue with these subjects as they go up through the College.

The alternative courses are the 100, 101, 202 and 303 courses. Some of these courses are Unit Standard courses and some use Achievement Standards, but they mostly have no external assessments. These courses often have a more practical component. They are designed for students that require Standards in a subject, but have not met subject prerequisites for entry to the mainstream courses.

MULTI-LEVEL STUDY:

The timetable structure of the College allows students to study at different levels in the senior school. You are encouraged to take advantage of this flexible arrangement if you are a Year 12 or 13 student, as it means you can study at a level where you are most likely to be successful.

ENTRY TO YEAR 12 AND YEAR 13 COURSES

To be allowed to study a subject at Year 12 or Year 13 level you must satisfy the Head of Department of that subject of your ability to handle the subject at the next level. This will be shown by your commitment to work in the preceding level and by reaching a required standard. The prerequisites you have to meet for each subject are shown under each subject later in this booklet.

Note: Any variation to the above requirements will only be made in consultation with the Head of Department of the subject concerned and at the discretion of the Assistant Rector. If you wish to take a subject for which you do not meet the prerequisites you should discuss this first with the Head of Department.

YEAR 11 PROGRAMME:

As part of their courses all Year 11 students must take:

1. Religious Education 102 or Religious Education 101
2. English 102 or English 101 or English 100
3. Science 102 or Science 101
4. Mathematics 102 or Mathematics 101 or Mathematics 100
5. TWO other option subjects
6. Physical Education 100 (not assessed toward NCEA).

YEAR 12 PROGRAMME:

Students choose a Year 12 course of SIX SUBJECTS which can be selected from Year 11 and Year 12 courses outlined in this booklet, for which you meet the prerequisites. The majority of students should endeavour to select 203 courses where they meet the subject prerequisites. Students can select alternative 202 courses that suit their learning needs, or repeat Year 11 courses. An English course and Religious Education are compulsory. It is advised that students consider taking Mathematics at this level also.

YEAR 13 PROGRAMME:

Students choose a Year 13 course usually of Six subjects, however some students will be allowed to do five subjects and a Study period. **Students will need to gain approval from the College to be allowed to have a Study period.** Generally students having a Study period will be students who have a significant number of additional commitments associated with their Year 13 programme.

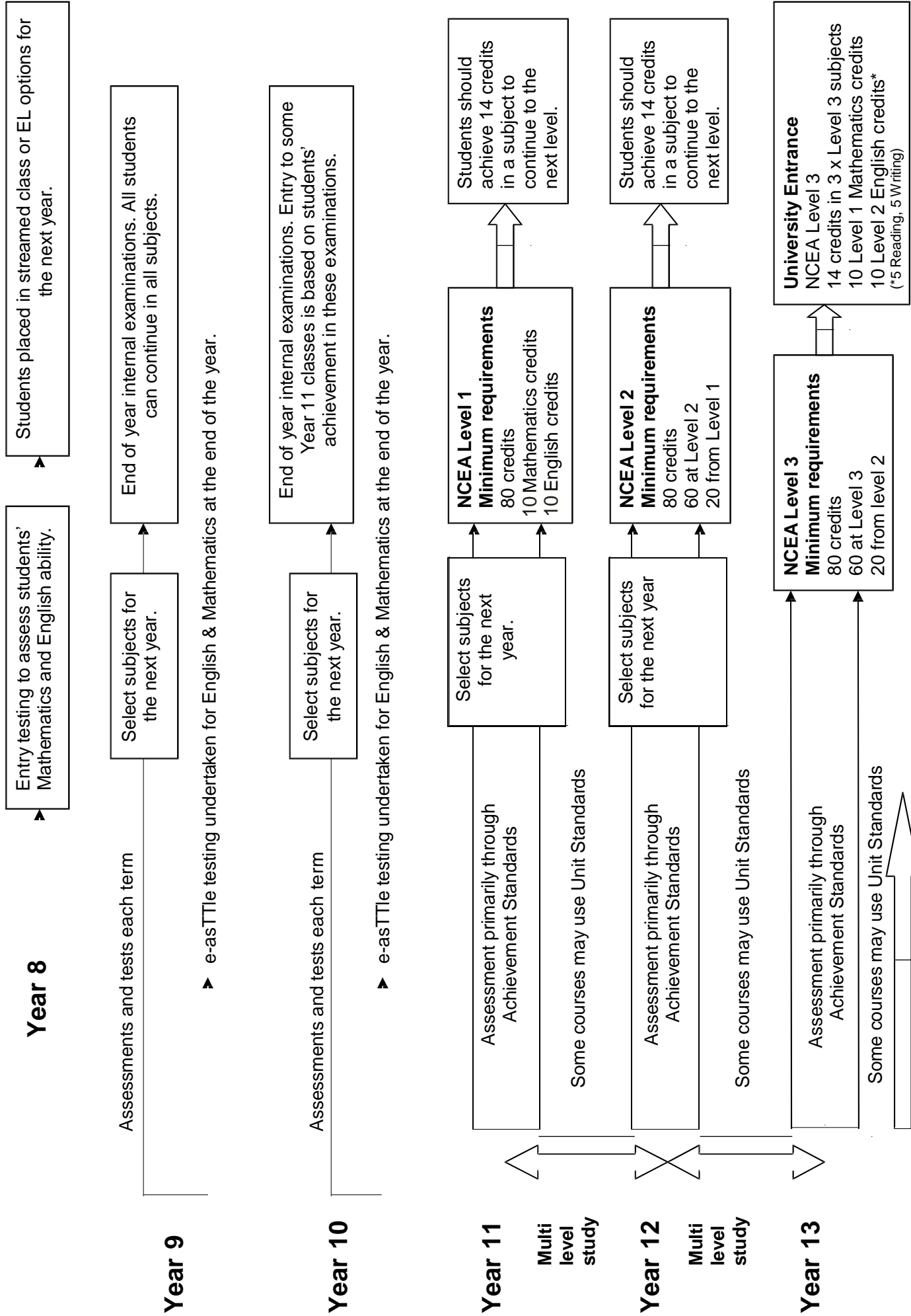
Year 13 students will select courses from Year 12 and Year 13 courses outlined in this booklet, for which they meet the prerequisites. The majority of students will select 304 courses where they meet the subject prerequisites. Students can select alternative 202 or 303 courses that suit their learning needs, or repeat Year 12 courses. Religious Education is the only compulsory course at Year 13.

Curriculum Flow Chart 2018

| Year 9 | Year 10 | Year 11 | Year 12 | Year 13 |
|------------------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| Religious Education (compulsory) | Religious Education (compulsory) | Religious Ed 101/102 (compulsory) | Religious Ed 202/203 (compulsory) | Religious Ed 304 (compulsory) |
| English (compulsory) | English (compulsory) | English 100/101/102 (compulsory) | English 202/203 (compulsory) | English 303/304 |
| Drama | Drama | Drama 102 | Drama 203 | Drama 304 |
| | | | Media Studies 203 | Media Studies 304 |
| EL | EL | EL 100 | EL 200 | EL 300 |
| Mathematics (compulsory) | Mathematics (compulsory) | Mathematics 100/101/102 (compulsory) | Mathematics 202 Mathematics with Calculus 203 | Mathematics with Calculus 304 |
| | | | Statistics 203 | Stats & Modelling 304 |
| Science (compulsory) | Science (compulsory) | Science 101/102 (compulsory) | Science 202 Biology 203 Chemistry 203 Physics 203 | Science 303 Biology 304 Chemistry 304 Physics 304 |
| Social Studies (compulsory) | Social Studies (compulsory) | Geography 102 | Geography 203 | Geography 304 Tourism 303 |
| History | History Geography | History 102 | History 203 | History 304 |
| | | | Classics 203 | Classics 304 |
| Phys Ed (comp) | Phys Ed (comp) | Phys Ed 102 | Phys Ed 203 | Phys Ed 304 |
| | | | Outdoor Ed 203 | Outdoor Ed 304 Outdoor Leader 303 |
| Economics & Business Studies | Economics & Business Studies | Economics 102 | Economics 203 | Economics 304 |
| | | Accounting 102 | Accounting 203 | Accounting 304 |
| Design & Visual Com. (Graphics) | Design & Visual Com. (Graphics) | Design & Visual Com. (Graphics) 102 | Design & Visual Com. (Graphics) 203 | Design & Visual Com. (Graphics) 304 |
| Technology (compulsory) | Technology: Robotics, Workshop, Electronics | Technology 102 Engineering | Technology 203 Engineering | Technology 304 Robotics Engineering |
| | | Programming Technology 102 | Programming Technology 203 | |
| | | Digital Technology 102 | Digital Technology 203 | Digital Technology 303 |
| | | | Automotive 202 | |
| | | | Building 202 | |
| Art (compulsory) | Art | Art 102 | Art Practical 203 Art Design 203 | Art Practical 304 Art Design 304 |
| | | | Digital Design 200 St Catherines | Digital Design 300 St Catherines |
| French | French | French 102 | French 200 | French 300 |
| | | | Food & Nutrition 200 | Food & Nutrition 300 |
| Te Reo Maori | Te Reo Maori | Te Reo Maori 102 | Te Reo Maori 203 | Te Reo Maori 304 |
| Samoan | Samoan | Samoan 102 | Samoan 203 | Samoan 304 |
| Music (compulsory) Music Performance | Music Performance | Music 102 | Music 203 | Music 304 |
| | | | Careers 202 | Careers 202 |
| | | | Gateway 202/303 | Gateway 202/303 |

Please note: Where a course has multiple levels (e.g. Science 102/101/100) HODs will consult with teaching staff to determine the appropriate class for students

EDUCATION PATHWAYS THROUGH ST PATRICK'S COLLEGE



EMPLOYMENT - UNIVERSITY - TERTIARY TRAINING

Accounting

Level: 1

Code: AC102

Course Information: The Year 11 Accounting course provides an introduction to financial decision making, accounting processes and the preparation and analysis of financial statements. The course provides students with an understanding of record keeping and personal budgeting which is ideal for any students thinking of owning their own business. Preparation and analysis of financial statements enables students to comprehend how a business has performed over the years drawing on their analytical skills. Students are also introduced to financial vocabulary which is commonly used in business settings.

Prerequisites: None

Required for: Level Two Accounting

Credits: 21 (12 Internal, 9 External)

Cost: \$25 (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------------|---------|-------------------|
| AS90977 | Process financial transactions for a small entity | 5 | Internal |
| AS90978 | Prepare financial statements for sole proprietors | 5 | External |
| AS90980 | Interpret accounting information for sole proprietors | 4 | External |
| AS90981 | Make a financial decision for an individual or group | 3 | Internal |
| AS90982 | Demonstrate understanding of cash management for a small entity | 4 | Internal |

Accounting

Level: 2

Code: AC203

Course Information: The Year 12 Accounting course provides an introduction to financial decision making, types of business and the preparation and analysis of financial statements. The course provides students with an understanding of the various processes within a business relating to recordkeeping and the overall impact this has on a business' ongoing operations. Preparation and analysis of financial statements enables students to comprehend how a business has performed over the years, drawing on their analytical skills. Students are also introduced to financial vocabulary which is commonly used in business settings.

Prerequisites: 14 Level 1 Accounting credits

Required for: Level Three Accounting

Credits: 19 (10 Internal, 9 External)

Cost: \$25 (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|------------------------------------------------------------------------------------|---------|-------------------|
| AS91175 | Demonstrate understanding of accounting processing using accounting software | 4 | Internal |
| AS91176 | Prepare financial information for an entity that operates accounting subsystems | 5 | External |
| AS91177 | Interpret accounting information for an entity that operates accounting subsystems | 4 | External |
| AS91179 | Demonstrate understanding of an accounts receivable subsystem for an entity | 3 | Internal |
| AS91386 | Demonstrate understanding of an inventory subsystem for an entity | 3 | Internal |

Accounting

Level: 3

Code: AC304

Course Information: The Year 13 Accounting course prepares students for tertiary study or an Accounts Clerk role within a business. The course primarily deals with the preparation of financial statements and accompanying notes. Students further their analytical skills by analysing and interpreting the accounts of a company on the New Zealand Stock Exchange. Management decision making, including product mix, and controlling costs in a manufacturing environment are also included in this course which should appeal to all future CEO's and Managers.

Prerequisites: 14 Level 2 Accounting credits

Credits: 22 (13 Internal, 9 External)

Cost: \$28 (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91406 | Demonstrate understanding of accounting for partnerships | 4 | Internal |
| AS91406 | Demonstrate understanding of company financial statement preparation | 5 | External |
| AS91407 | Prepare a report for an external user that interprets the annual report of a NZ reporting entity | 5 | Internal |
| AS91408 | Demonstrate understanding of management accounting to inform decision making | 4 | External |
| AS91409 | Demonstrate understanding of a job cost subsystem for an entity | 4 | Internal |

Art

Level: 1

Code: AR102

Course Information: The Year 11 Art course develops students' skills and confidence in drawing, painting, printmaking and in creating mixed media and three dimensional works. Students learn how to research and recognise that art works contain value that is associated with the time and the culture in which it was made and that the way work is valued may change over time. This course develops students' creativity, ability to observe, describe and to initiate their ideas. They will generate, develop and resolve visual ideas through analysis, evaluation and perception.

Prerequisites: High levels of achievement in Year 10 Art or at the discretion of the HOD.

Required for: Year 12 Practical Art.

Credits: 26 (14 Internal, 12 External)

Cost: \$50 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS90914 | Use drawing methods and skills to record information in wet and dry media. | 4 | Internal |
| AS90915 | Use drawing conventions to develop work in more than one field of practice. | 6 | Internal |
| AS90916 | Produce a body of work informed by established practice, which develops ideas, using a range of media. | 12 | External |
| AS90917 | Produce a finished work that demonstrates skills appropriate to cultural conventions. | 4 | Internal |

Practical Art

Level: 2

Code: AR203

Course Information: In this course students use art-making procedures such as drawing, painting, printmaking, sculpture and photography to investigate, clarify and resolve the art making ideas of given artists as well as in the production of their own work. Students are encouraged to explore their personal interpretations on given themes and are expected to build a confident awareness of the uses for specific materials and resources. For the external assessment students choose either painting or printmaking.

Prerequisites: The achievement of Art in Year 11 or at the discretion of the HOD.

Required for: Year 13 Practical Art and Art Design.

Credits: 20 (8 Internal, 12 External)

Cost: \$50 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91311 or AS91313 | Use drawing methods to apply knowledge of conventions appropriate to painting or printmaking. | 4 | Internal |
| AS91316 or AS91318 | Develop ideas in a related series of drawings appropriate to established painting or printmaking practice. | 4 | Internal |
| AS91321 or AS91323 | Produce a systematic body of work that shows understanding of art making conventions and ideas with painting or printmaking. | 12 | External |

Practical Art

Level: 3

Code: AP304

Course Information: In this course students use art-making procedures such as drawing, mixed media and painting, printmaking, sculpture and photography to investigate, clarify and resolve the art making ideas of given artists as well as in the production of their own work. Students choose their own theme and spend the year developing solutions by researching, drawing and then producing a body of painted or printed work demonstrating extensive knowledge of the appropriate art-making conventions. Students have the opportunity to select which External standard (paint or print) that they will work on. This is a U.E approved course and endorsement can be gained from it.

Prerequisites: Study and completion of Practical Art in Level 2 or at the discretion of the HOD.

Required for: Tertiary Study. U.E Approved and Endorsement and Scholarship available.

Credits: 22 (8 Internal, 14 External)

Cost: \$50 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91446 or AS91448 | Use drawing to demonstrate understanding of conventions appropriate painting or printmaking. | 4 | Internal |
| AS91451 or AS91453 | Systematically clarify ideas using drawing informed by established painting or printmaking practice. | 4 | Internal |
| AS91456 or AS91458 | Produce a systematic body of work that integrates conventions and regenerates ideas within painting or printmaking practice. | 14 | External |

Art Design

Level: 2

Code: AD203

Course Information: Students complete three Internal Assessments. The second feeds into the External Assessment. Students will create a brief that interests them and design outcomes for it. They develop original solutions by researching, drawing and producing finished work that shows extensive knowledge of recent design practice. Students will use computers to design for their personalised projects and learn how to use the adobe creative suite programs – Illustrator, Photoshop and InDesign. The purchase of this software for home is invaluable and those without will require additional use of school computers, outside of allocated class time.

There is one assessment opportunity for each standard. Work must be submitted by the due date. Late work will not be marked.

Prerequisites: Study of Practical Art or Graphics at Year 11 or at the discretion of the HOD.

Required for: Tertiary Study. U.E Approved and Endorsement available.

Credits: 20 (12 Internal, 12 External)

Cost: \$60 (Materials Donation)
Student must have a USB or External Harddrive for this course

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91305 | Use drawing to demonstrate understanding of conventions appropriate to design. | 4 | Internal |
| AS91305 | Systematically clarify ideas using drawing informed by established design practice. | 4 | Internal |
| AS91320 | Produce a systematic body of work that integrates conventions and regenerates ideas within design practice. | 12 | External |

Art Design

Level: 3

Code: AD304

Course Information: Students complete two related Internal Assessments that feed into the External Assessment. Students will create a brief that interests them and design outcomes for it. They develop original solutions by researching, drawing and producing finished work that shows extensive knowledge of recent design practice. Students will use computers to design for their personalised projects and build on their knowledge of the adobe creative suite programs – Illustrator, Photoshop and InDesign. The purchase of this software for home is invaluable and those without will require additional use of school computers, outside of allocated class time.

There is one assessment opportunity for each standard. Work must be submitted by the due date. Late work will not be marked.

Prerequisites: Study of Practical Art, Art Design or Graphics at Year 12 or at the discretion of the HOD.

Required for: Tertiary Study. U.E Approved and Endorsement and Scholarship available.

Credits: 22 (8 Internal, 14 External)

Cost: \$60 (Materials Donation)
Student must have a USB or External Harddrive for this course

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91445 | Use drawing to demonstrate understanding of conventions appropriate to design. | 4 | Internal |
| AS91450 | Systematically clarify ideas using drawing informed by established design practice. | 4 | Internal |
| AS91455 | Produce a systematic body of work that integrates conventions and regenerates ideas within design practice. | 14 | External |

Automotive

Level: 2

Code: AU202

Course Information: Students learn about how 2 stroke and 4 stroke engines and basic systems on a motor vehicle function. They work collaboratively on go kart or pocket bike projects to learn about how components and systems are integrated into a functioning vehicle. Students are required to design and fabricate components using engineering equipment. Safety reasons mean that numbers must be restricted in the workshop and garage to 14.

For detailed course information, visit the course [website](#)

Prerequisites: None

Required for: Useful for Automotive and Engineering tertiary trade study

Credits: 16 (all internal - no course endorsement possible)

Cost: \$30 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------|---------|-------------------|
| US2430 | Draw and interpret engineering sketches under supervision | 4 | Internal |
| US2430 | Assemble mechanical components under supervision | 2 | Internal |
| AS91356 | Develop a conceptual design for an outcome | 6 | Internal |
| US2395 | Select, use, and care for, engineering hand tools | 4 | Internal |

Biology

Level: 2

Code: BI203

Course Information: The course is both practical and theoretical. It covers genetics, gene expression, cell biology and an investigation into the ecology of a Rocky Shore. This is a useful ground for a large cross section of careers and disciplines, as diverse as Medicine, Law, and Food Technology.

Prerequisites: From SC102: 12 external credits
From SC101: Merit or higher in the Biology paper

Required for: L3 Biology

Credits: 20 (8 Internal, 12 External)

Cost: \$45 (Textbook and workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------|---------|-------------------|
| AS91153 | Carry out a practical investigation in a biology context, with supervision | 4 | Internal |
| AS91156 | Demonstrate understanding of life processes at the cellular level | 4 | External |
| AS91157 | Demonstrate understanding of genetic variation and change | 4 | External |
| AS91159 | Demonstrate understanding of gene expression | 4 | External |
| AS91158 | Investigate a pattern in an ecological community, with supervision | 4 | Internal |

Biology

Level: 3

Code: BI304

Course Information: The course is both practical and theoretical. It covers genetics and evolution in considerable depth. It also covers plant and animal behaviour. This is a useful ground for a large cross section of careers and disciplines, as diverse as Law and Food Technology.

Prerequisites: Merit in at least one of Achievement Standards AS91157/AS91159 with a total of at least 16 credits in L2 Biology.

Required for: University Study in Sciences.

Credits: 19 (6 Internal, 13 External)

Cost: \$25 (Workbook may be purchased, plus optional field trip)

| Standard | Title | Credits | Internal/External |
|----------|------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91602 | Integrate Biological Knowledge to Develop an Informed Response to a Socio-Scientific Issue | 3 | Internal |
| AS91603 | Demonstrate Understanding of the Responses of Plants and Animals to their External Environment | 5 | External |
| AS91605 | Demonstrate Understanding of Evolutionary Processes Leading to Speciation | 4 | External |
| AS91606 | Demonstrate Understanding of Trends in Human Evolution | 4 | External |
| AS91607 | Demonstrate Understanding of Human Manipulations of Genetic Transfer and its Biological Implications | 3 | Internal |

Building

Level: 2

Code: BU202

Course Information: This course leads to tertiary courses in the Building and Construction area for apprentice training. Students work collaboratively on a project such as fence building or a non-consent building. They also produce one or two take home items such as a children's picnic table or outdoor chair. They learn about workshop safety, tool and equipment use and how to order materials. Safety reasons mean that numbers must be restricted in the workshop to 20.

For detailed course information, visit the course [website](#)

Prerequisites: Year 12 or 13 student.

Required for: Apprenticeship training.

Credits: 16 (all internal - no course endorsement possible)

Cost: \$50 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------------------------|---------|-------------------|
| US12936 | Construct a non-consent timber-framed utility building | 8 | Internal |
| US12932 | Construct wooden garden furniture and items of basic construction equipment | 8 | Internal |

Careers

Level 2/3

Code: 202

Year: 12 and 13 students

Pre-requisites - Open Entry - not an approved University Entrance subject.

Staff: Mr. Mike Woods and Mrs Elaine Waring

Students will expand their career opportunities by working and studying outside the classroom leading to NCEA and real career qualifications. The programme is set up to meet individual student's learning needs.

Students have an opportunity to:

- attend tertiary courses (STAR) paid by the college to gain real career qualifications.
- gain their Learner/Restricted licences.
- be monitored for achievement in NCEA Level 1, 2 and 3.
- work experience with employers gaining skills and references for their CV.

In Class we cater for students at all levels of achievement and offer:

- 20 Credits at Level 1 – Employment, Law, Self-Management Skills.
- 24 Credits at Level 2 – Road Code, Career Planning, Law and Communication.
- 25 Credits at Level 3 and we can work with individual student career needs.

Assessments are classroom based on student readiness or practical skill tests.

By the end of their time in this course we expect our students to have achieved:

- a minimum of NCEA Level 2 or higher qualifications.
- a Learner Licence or higher driving licences.
- a First Aid Certificate, Site Safe qualifications and attended a STAR course.
- a Career Plan to leave college to work, study or take a planned GAP year.

Course costs:

50% of the Learner or Restricted Drivers Licence testing.

We supply safety equipment required for work experience e.g. boots, overalls...

Vocational Pathways:: Access to Polytechnic courses, work and on the job training
- apprenticeships.

Careers Department website – <https://sites.google.com/a/stpats.school.nz/spccareers/>

Career Central (Student Career Profile) - <http://www1.cc.school.nz/>

Careers New Zealand - www.careers.govt.nz

Chemistry

Level: 2

Code: CH203

Course Information: Chemistry has a practical internal component and covers organic, inorganic, and physical chemistry. This is a useful ground for a large cross section of careers and disciplines, as diverse as Law and Food Technology. The Chemistry 203 course allows students to further study the composition and properties of matter. Chemical processes are vital to our lives, in both living and non-living systems. During the course students will: investigate and explain the development of selected chemical processes and their interaction with people and the environment; carry out qualitative and quantitative investigations to obtain, interpret and use a range of chemical information; understand and use the central concepts of chemistry.

Prerequisites: From SC102: 12 external credits

Required for: L3 Chemistry

Credits 20 (7 Internal, 13 External)

Cost \$40 (Materials donation. Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91161 | Carry out acid-base volumetric analysis by using a given titration procedure, and solving problems involving volumetric analysis | 4 | Internal |
| AS 91162 | Introduction to Equations & the Periodic Table. Carry out qualitative analysis to identify ions present in solution. | 3 | Internal |
| AS 91164 | Demonstrate Understanding of Bonding. Structure Properties and Energy Changes | 5 | External |
| AS91165 | Describe Understanding of the Properties of Selected Organic Compounds | 4 | External |
| AS 91166 | Demonstrate Understanding of Chemical Reactivity | 4 | External |
| AS 91167 | Demonstrate Understanding of Oxidation-Reduction | - | Not assessed |

Chemistry

Level: 3

Code: CH304

Course Information: The Chemistry 304 course allows students to further study the composition and properties of matter. Chemical processes are vital to our lives, in both living and non-living systems. During the course students will understand and predict the way a range of chemicals react; describe how people interact with chemicals and chemical processes; appreciate the place of materials in society. The students will develop their skill in interpreting equations, graphs and experimental results. In addition, observational and analytical skills are developed, allowing students in the course to increase their understanding of common and important chemical processes. It is highly recommended that students who want to do this course achieve AS 91164, AS 91165 and AS 91166 in CH304 (external topics) as much of this course builds on the foundation knowledge gained in these standards.

Prerequisites: Complete CH 203 achieving at least 14 credits.

Credits: 21 (6 Internal, 15 External)

Cost: \$30 (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91388 | Demonstrate understanding of Spectroscopic data in chemistry | 3 | Internal |
| AS91393 | Demonstrate understanding of Oxidation-Reduction processes | 3 | Internal |
| AS91390 | Demonstrate understanding of Thermochemical principles and the Properties of Particles and substances | 5 | External |
| AS91391 | Demonstrate understanding of the properties of Organic compounds | 5 | External |
| AS91392 | Demonstrate understanding of Equilibrium Principles in Aqueous Systems | 5 | External |

Classics

Level: 2

Code: CL203

Course Information: The exciting thing about Classics is that there is something in it for everyone. It is a multicultural, interdisciplinary field that provides access to the classical world of Greece and Rome, through archaeology and art, mythology, philosophy and religion, history and literature. Classics helps us understand who and why we are, and where we might be going, and addresses issues that still confront modern states worldwide--including warfare, empire building, consensus forging, and political fragmentation. Students of Classics learn marketable skills that are highly prized by employers in today's volatile job market. How to read critically, think analytically, and communicate articulately, are three of the skills you will learn by studying Classics. However, the most likely reason you might choose to study Classics is because you have discovered the fascination of studying ancient civilizations. Perhaps you have developed an interest in mythology or the complex social history of the ancient world. You might want to get your hands dirty excavating a Roman villa, or explore the Colosseum and gladiatorial combats. Classics 203 is the place to begin. Topics covered may include: Mythology; Homer's *Odyssey*; Greek Society; Greek Architecture.

Prerequisites: At least 15 credits in English 102, or Level 1 Geography or History or Te Reo Māori.

Required for: While it is not compulsory to have done the Year 12 course to enrol in Year 13 Classics, Geography or History, it is desirable

Credits: Up to 24 (10 Internal, 14 External)

UE Approved This subject leads to a Level 3 approved UE course. Standards marked R and/or W can be counted as either Reading OR Writing credits for UE Literacy.

Cost: \$30 (Workbooks and Write-on-Notes may be purchased)

| Standard | UE Literacy | Title | Credits | Internal/External |
|--------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91200 | RW | Examine ideas and values of the classical world | 4 | External |
| AS91202 | R | Demonstrate understanding of a significant event in the classical world | 4 | Internal |
| AS91203 | RW | Examine socio-political life in the classical world | 6 | External |
| AS91204 | R | Demonstrate understanding of the relationship between aspects of the classical world and aspects of other cultures | 6 | Internal |
| OPTIONAL ACHIEVEMENT STANDARD AVAILABLE (with HOD approval) | | | | |
| AS91201 | RW | Examine the significance of features of work(s) of art in the classical world | 4 | External |

Only the most able students should consider taking all five standards. This will be decided on an individual basis (or, at the discretion of the HOD).

Classics

Level: 3

Code: CL304

Course Information: Whether you want to read literature, explore the effect of the past on the present, or learn to apply science to arts, Classics has something for everyone. It is a multidisciplinary subject which includes the study of history, literature, philosophy, mythology, religion, art, and ancient social customs. The diverse nature of Classics enables students to understand the historical significance of classical Greece and Rome to the cultural tradition of Western Europe and thus gain further insight into contemporary society as well as the ancient world's connection with other intellectual disciplines, which makes it constantly fresh and challenging, and encourages mental versatility. And you know about the extremely high acceptance rate for those who have studied Classics applying to University, particularly commerce, law and medicine. However more than that, students of Classics learn marketable skills that are highly prized by employers in today's volatile job market: how to read critically, think analytically, and communicate articulately. Classics invites you to join in discussion with the finest thinkers throughout history. The exciting next step is yours.

Topics covered may include: Alexander the Great *or* Augustus; Apuleius *The Golden Ass*; Virgil's *Aeneid*; Roman Architecture; Aristophanes' *Lysistrata* and *Frogs*; the internal coursework may include: Roman Religion; Sport and Entertainment in the ancient world vs. the modern world.

Prerequisites: 15 credits or more in Classics 203 (this must include AS91203) or English 203 (this must include AS91101), or Level 2 Geography, History, Media Studies, Religious Education or Te Reo Māori. Prior study of Classics is not a requirement but is an advantage. Students should have the reading and writing Literacy standards needed for entry to any New Zealand University before entering this course.

UE Approved This subject is an approved UE course of study. Standards marked R and/or W can be counted as either Reading OR Writing credits for UE Literacy.

Additional Course Costs: \$20 (Paul Artus. *Roman Art and Architecture, Write on Notes, Book One and Book Two*. Bellona Books. 2012 may be purchased)

| Standard | UE Literacy | Title | Credits | Internal/External |
|--------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91394 | RW | Analyse ideas and values of the classical world | 4 | External |
| AS91395 | RW | Analyse the significance of a work(s) of art in the classical world | 4 | External |
| AS91397 | R | Demonstrate understanding of significant ideology(ies) in the classical world | 6 | Internal |
| AS91398 | R | Demonstrate understanding of the lasting influences of the classical world on other cultures across time | 6 | Internal |
| OPTIONAL ACHIEVEMENT STANDARD AVAILABLE (with HOD approval) | | | | |
| AS91396 | RW | Analyse the impact of a significant historical figure on the classical world | 6 | External |

Scholarship in Classics, 93404: Students who enter Scholarship are required to demonstrate high level critical thinking. They will critically evaluate aspects of the culture of the classical world demonstrating analytical perception as well as their depth and breadth of knowledge. They must be able to communicate ideas effectively in essay format. **Admission to the Scholarship programme is by invitation only.**

Design and Visual Communication (Graphics)

Level: 1

Code: DVC102

Course Information: Students develop a broad range of design skills. Drawing skills are learned and developed within the context of an extended design project. In addition, students construct models of their design. Aspects of the work are assessed internally, and a portfolio of the year's work is submitted for external assessment of other aspects at the end of the year. This course demands good self management. In particular, students are expected to complete work at home as required, in order to meet dead-lines.

For more detailed course information, visit the course [website](#)

Prerequisites: Year 10 Design and Visual Communication (Graphics) or at HOD discretion

Required for: Design and Visual Communication (Graphics) 203 and 304

Credits 19 (16 compulsory)

Cost \$55 (Equipment Donation)

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91068 | Demonstrate development of own design ideas communicated through graphics practice | 6 | Internal |
| AS91066 | Use rendering techniques to communicate the form of own design ideas | 3 | Internal |
| AS91069 | Promote an organised body of design work to an audience using visual communication techniques | 4 | Internal |
| AS91063 | Produce freehand sketches to communicate design ideas | 3 | External |
| AS91064 | <i>Produce instrumental, multi-view orthographic drawings that communicate technical features of own design ideas (OPTIONAL)</i> | 3 | External |

Design and Visual Communication (Graphics)

Level: 2

Code: DVC203

Course Information: Building on their work in Year 11, students further develop their skills in detailed freehand drawing, two dimensional instrumental drawing (optional), colour rendering and the use of design processes, conventions and language. Students develop these skills within the context of three related projects, focusing on product design, spatial design and presentation. This includes students making models and digital (Photoshop) presentations of their design. These projects are assessed internally. A portfolio of the year's work is submitted for external assessment at the end of the year. This course has a high workload and demands good self management. In particular, students are expected to complete work at home as required, in order to meet deadlines.

For more detailed course information, visit the course [website](#)

Prerequisites: 16 credits in Level 1 Design and Visual Communication (Graphics) or at discretion of HOD.

Required for: Design and Visual Communication (Graphics) 304

Credits: 16

Cost: \$60 (Equipment Donation)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------|---------|-------------------|
| AS91340 | Use the characteristics of a design movement or era to inform own design ideas | 3 | Internal |
| AS91342 | Develop a product design through graphics practice | 6 | Internal |
| AS91343 | Use visual communication techniques to compose a presentation of a design | 4 | Internal |
| AS91337 | Use visual communication techniques to generate design ideas | 3 | External |

Design and Visual Communication (Graphics)

Level: 3

Code: DVC304

Course Information: This course extends the techniques and skills of previous years while providing the basis for intended tertiary courses or careers in design, engineering, and technical disciplines. Students work on three related projects that focus on the design and presentation of a product and environment. This includes model making and digital presentation. At this level, the student works with the teacher as the client in each of the projects, which are assessed internally. A portfolio made up of a selection of the year's work is submitted for external assessment at the end of the year.

For more detailed course information, visit the course [website](#)

Prerequisites: 13 credits in Level 2 Design and Visual Communication (Graphics) or at discretion of HOD.

Credits: 16

Cost: \$85 (Basic equipment donation, plus any additional specialised materials that may be required for specific project needs)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------------------------|---------|-------------------|
| AS91630 | Resolve a product design through graphics practice | 6 | Internal |
| AS91628 | Develop a visual presentation that exhibits a design outcome to an audience | 6 | Internal |
| AS91627 | Initiate design ideas through exploration | 4 | External |

Digital Technology

Level: 1

Code: DT102

Course Information This course is structured around project-based learning. The main project is a short digital 'movie', a digital media outcome. During the preparatory work, students are developing both digital media and digital information knowledge and skills while researching and presenting their learning about digital video production. Software used includes Word, Excel, PowerPoint, and MovieMaker.

For more detailed course information, visit the course [website](#)

Prerequisites: None

Required for: Preferable as preparation for DT203

Credits 18 (15 compulsory)

Cost \$20 (Course Costs Donation)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------|---------|-------------------|
| AS91072 | Demonstrate understanding of basic concepts of digital media | 3 | Internal |
| AS91071 | Implement basic procedures to produce a specified digital information outcome | 4 | Internal |
| AS91045 | Use planning tools to guide the technological development of an outcome to address a brief | 4 | Internal |
| AS91073 | Implement basic procedures to produce a specified digital media outcome | 4 | Internal |
| AS91070 | Demonstrate understanding of basic concepts of information management | 3 | External |

Digital Technology

Level: 2

Code: DT203

Course Information This course will be structured around project-based learning. It is designed to follow on from the Level One Digital Technology course. Students will further develop skills using digital information and digital media software.

For more detailed course information, visit the course [website](#)

Prerequisites: 15 credits in DT102 or at the discretion of the HOD

Required for: Not applicable

Credits 16 approximately

Cost \$20 (Course Costs Donation)

| Standard | Title | Credits | Internal/External |
|----------|-------|---------|-------------------|
| TBA | | | |
| TBA | | | |
| TBA | | | |
| TBA | | | |
| TBA | | | |

Digital Technology (Computing)

Level: 3

Code: DT303

Course Information: This course is useful for developing digital information skills. It is internally assessed against unit standards. Students use software such as Word, Excel, PowerPoint and Publisher.

Prerequisites: None

Credits: 16 internal

Cost: \$20 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|---------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| US111 | <p><i>Use a word processor to produce documents for a business or organisation</i></p> <p>THIS IS A LEVEL 2 STANDARD</p> | 5 | Internal |
| US2785 | Create a computer spreadsheet to provide a solution for organisation use | 5 | Internal |
| US2789 | Produce desktop published documents for organisation use | 6 | Internal |

Digital Design (course provided by St Catherine's College)

Level: 2

Code: DD200

Course Information: For information on courses provided by St Catherine's College please visit <http://stcatherinescollege.school.nz/course-selection/>

Digital Design (course provided by St Catherine's College)

Level: 3

Code: DD300

Course Information: For information on courses provided by St Catherine's College please visit <http://stcatherinescollege.school.nz/course-selection/>

Drama

Level: 1

Code: DR102

Course Information: Students in Drama 102 will learn skills such as collaboration, teamwork, self-management and critical reflection through individual and group work by using scripts, devised pieces, workshops and improvisation. They will learn how to use the dramatic techniques of voice, body, movement and space for effect as well as develop an understanding of the elements of drama and how to use them in performance. There will also be a historical component to the course, as students will learn about a theatrical form such as Greek Tragic theatre for the purpose of internal and external assessment. The course offers the opportunity for students to develop confidence, language skills, communication skills and general performance skills. Natural ability is not essential, students just need a willingness to get involved and work with others from diverse backgrounds. Several visits to the theatre throughout the year are compulsory as students will need to respond to these in an external assessment. Achievement standards are offered both internally and externally.

Prerequisites: Drama at Year 10 is preferred but not required.

Credits: 22 (18 internal, 4 external)

Cost: Approximately \$40 for two theatre trips.

| Standard | Title | Credits | Internal/External |
|----------|------------------------------------------------------------|---------|-------------------|
| AS90006 | Apply drama techniques in a dramatic context | 4 | Internal |
| AS90009 | Perform an acting role in a scripted production | 5 | Internal |
| AS90997 | Devise and perform a drama | 5 | Internal |
| AS90999 | Use features of a drama/theatre form in performance | 4 | Internal |
| AS90998 | Demonstrate understanding of the features of a drama form. | 4 | External |

Drama

Level: 2

Code: DR203

Course Information: This course builds on skills gained in NCEA Level 1 Drama. It requires in and out of class time work and further develops students' skills in devising, acting, responding and reflecting on theatre practice, effective communication and group responsibility. All senior students who take this course will be expected to perform or do a practical role in a major in class performance. This course also gives students the chance to learn about different theatre forms and explore the work of a range of theatre practitioners. In addition, there are some charges for travelling to see public performances. Students can gain 14 NCEA Level 2 reading and 8 writing credits from this course.

Prerequisites: Drama at Year 10 is preferred. At least 14 credits in a Year 11 English course. Students who do not meet these prerequisites and wish to enrol for this course must see the teacher-in-charge to discuss their suitability.

Credits: 22 (18 internal, 2 external)

Cost: Approximately \$40 for two theatre trips.

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------------|---------|-------------------|
| AS91213 | Apply drama techniques in a scripted context | 4 | Internal |
| AS91218 | Perform a substantial acting role in a scripted production | 5 | Internal |
| AS91214 | Devise and perform a drama to realise an intention | 5 | Internal |
| AS91216 | Use complex performance skills associated with a drama or theatre form or period | 4 | Internal |
| AS91215 | Discuss a drama or theatre form or period with reference to a text | 4 | External |

Drama

Level: 3

Code: DR304

Course Information: This course is designed to develop skills in improvisation, body language, voice and use of space. Students will also work on script interpretation, devising and script writing. Students will also study two playwrights. If there is a College production it is expected that students are involved in some way. There are written as well as performance components to the course. Regular attendance is essential and therefore students who are also in Transition and /or Outdoor Education will have difficulty completing the assignments. Assessment is carried out against Achievement Standards. There are no external assessments.

Prerequisites: At least 12 credits in EN 203 OR EN202. Students who do not meet these prerequisites and wish to enrol for this course must see the teacher-in-charge to discuss their suitability.

Credits: (18 Internal)

Cost: None

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------------|---------|-------------------|
| AS91512 | Interpret scripted text to integrate drama techniques in performance | 4 | Internal |
| AS91515 | Select and use complex performance skills associated with a drama form or period | 4 | Internal |
| AS91513 | Devise and perform a drama to realise a concept | 5 | Internal |
| AS91519 | Script a drama suitable for live performance | 5 | Internal |

Economics

Level: 1

Code: EC102

Course Information: The aim of EC102 is to provide students with a broad range of analytical skills, the ability to interpret and present economic data and arguments in a clear, concise and coherent manner. Any student who is considering tertiary studies in these areas will find it of value. The content includes types of business units and producer supply, consumer demand, markets, government intervention and modelling the economy.

Prerequisites: None

Required for: Year 12 Economics

Credits: 20 (12 Internal, 8 External)

Cost: \$40 Course Materials Donation

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS90984 | Demonstrate understanding of decisions a producer makes about production. | 5 | Internal |
| AS90987 | Demonstrate understanding of a government choice where affected groups have different viewpoints. | 4 | Internal |
| AS90985 | Demonstrate understanding of producer choices using supply. | 3 | External |
| AS90986 | Demonstrate understanding of how consumer, producer and/or government choices affect society, using market equilibrium. | 5 | External |
| AS90988 | Demonstrate understanding of the interdependence of sectors of the New Zealand economy. | 3 | Internal |

Economics

Level: 2

Code: EC203

Course Information: The aim of EC203 is to provide students with a broad range of analytical skills, the ability to interpret and present economic data and arguments in a clear, concise and coherent manner. Any student who is considering tertiary studies in these areas will find it of value. The content includes a study of inflation, economic growth, employment and government policy. In particular, it analyses the causes, effects of these four economic issues, and the flow-on effects of changes of these these issues to sectors of the economy.

Prerequisites: At least 14 credits in Economics 102, or at the discretion of the Head of Department .

Required for: Year 13 Economics

Credits: 18 (10 Internal, 8 External)

Cost: \$40 Course Materials Donation

| Standard | Title | Credits | Internal/External |
|----------|---------------------------------------------------------------------------|---------|-------------------|
| AS91225 | Analyse unemployment using economic concepts and models. | 4 | Internal |
| AS91222 | Analyse inflation using economic concepts and models. | 4 | External |
| AS91224 | Analyse economic growth using economic concepts and models. | 4 | External |
| AS91227 | Analyse how government policies and contemporary economic issues interact | 6 | Internal |

Economics

Level: 3

Code: EC304

Course Information: The aim of EC304 is to provide students with a broad range of analytical skills, the ability to interpret and present economic data and arguments in a clear, concise and coherent manner. Any student who is considering tertiary studies in these areas will find it of value. The content includes a study of the individuals buying behaviour, operational decisions made by the firm, the efficiency of the market, and government policies used to correct market failure.

Prerequisites: At least 14 credits in Economics 203, or at the discretion of HOD Economics.

Required for: Tertiary Study.

Credits: 18 credits (10 Internal, 8 External)

Cost: \$50 Course Materials Donation

| Standard | Title | Credits | Internal/External |
|----------|------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91399 | Demonstrate understanding of efficiency of market equilibrium. | 4 | External |
| AS91402 | Demonstrate understanding of government interventions to correct market failure | 5 | Internal |
| AS91401 | Demonstrate understanding of micro-economic concepts. | 5 | Internal |
| AS91400 | Demonstrate understanding of efficiency of different market structures using marginal analysis | 4 | External |

English

Level: 1

Code: EN100

Course Information: This course is designed to improve skills in communication for students who have had difficulty coping with the Year 10 course, through written, visual and oral activities. All assessment will be using internally assessed Achievement Standards as well as Unit Standards for Literacy. The number of standards used for assessment and the time spent in preparation for assessment will be based on the learning styles and abilities of the students who opt for this course. Students will be taught to read and write more confidently; be able to interpret ideas in a range of texts; and improve basic language skills through writing and conversation. The intention is to keep class numbers down for greater individual tuition. Credits awarded will contribute towards NCEA Level 1 and students will be given the opportunity to gain the 10 credits required for literacy at this level.

Prerequisites: None - recommended course if Year 10 examination mark is less than 35%, or on the advice of subject teacher in Year 10.

Credits: 23 (Internal)

Cost: None

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------------------|---------|-------------------|
| US26622 | Write to communicate ideas for a purpose and audience | 4 | Internal |
| US26624 | Read texts for understanding | 3 | Internal |
| US26625 | Actively participate in spoken interactions | 3 | Internal |
| AS90857 | Construct and deliver an oral text | 3 | Internal |
| AS90856 | Show understanding of visual/oral text through close viewing using supporting evidence | 3 | Internal |
| AS90855 | Create a visual text | 3 | Internal |
| AS90853 | Use information literacy skills to form conclusions | 4 | Internal |

English

Level: 1

Code: EN101

Course Information: Course Information: This course is assessed using NCEA Level 1 Achievement Standards. The number of standards used for assessment and the time spent in preparation for assessment will be based on the learning styles and abilities of the students who opt for this course. However, this course is designed to meet the needs of students who would be unable to cope with the faster pace of EN102. The standards will cover skills in reading and writing, interpreting a variety of texts, both written and visual and identifying and using a range of language features. All credits awarded will contribute towards NCEA Level 1. Students will have the opportunity to gain the 10 credits required for literacy.

Prerequisites: None - recommended course if Year 10 examination mark is between 35% and 44%, or on the advice of Year 10 subject teacher.

Required for: Year 12 and 13 English, Economics, History, Classical Studies and Media Studies.

Credits: 17 (Internal)

Cost: None

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------------------|---------|-------------------|
| AS90052 | Produce creative writing | 3 | Internal |
| AS90857 | Construct and deliver an oral text | 3 | Internal |
| AS90856 | Show understanding of visual/oral text through close viewing using supporting evidence | 3 | Internal |
| AS90853 | Use information literacy to form conclusions | 4 | Internal |
| AS90852 | Explain significant connection(s) across texts, using supporting evidence | 4 | Internal |

English

Level: 1

Code: EN102

Course Information: This course continues the areas covered in Year 10. This includes creative and formal writing, the reading and study of various texts, both written and visual, writing and presenting a speech and identifying and using the features of language. Students will sit both internal and external Achievement Standards. Students will have the opportunity to gain the 10 credits required for literacy.

Prerequisites: None - recommended course if Year 10 examination mark is greater than 45%, or on the advice of Year 10 subject teacher.

Required for: Year 12 and 13 English, Economics, History, Classical Studies and Media Studies.

Credits: 21 (Internal and External)

Cost: None

| Standard | Title | Credits | Internal/External |
|----------|---------------------------------------------------------------------------------------------|---------|-------------------|
| AS90849 | Show understanding of specific aspects of studied written texts | 4 | External |
| AS90850 | Show understanding of specific aspects of studied visual text | 4 | External : |
| AS90851 | Show understanding of significant aspects of unfamiliar written texts through close reading | 4 | External |
| AS90052 | Produce creative writing | 3 | Internal |
| AS90053 | Produce formal writing | 3 | Internal |
| AS90857 | Construct and deliver an oral text | 3 | Internal |

English

Level: 2

Code: EN202

Course Information: This course will be assessed using Achievement Standards and is suitable for students who have successfully completed the courses for EN100 and EN101 at Level 1. The standards selected for assessment and the time taken to complete the units of work will depend on the abilities and learning styles of the students who opt for this course. Students will develop their communication skills both written and oral, they will also continue to practise and develop skills in reading a variety of texts, recognising and using language features and using visual media. Students must ensure that they obtain at least 5 credits reading and 5 credits writing for the purposes of University Entrance. At the discretion of the HOD English, Year 13 students who have not gained enough credits in this course whilst in Year 12 will be allowed to re-enrol.

Prerequisites: Must be in Year 12 or 13 - recommended course if less than 12 credits is achieved at NCEA Level 1 or at the discretion of HOD/TiC.

Required for: All Year 13 courses.

Credits: 17 (Internal)

Cost: None

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------------------|---------|-------------------|
| AS91101 | Produce a selection of crafted and controlled writing | 6 | Internal |
| AS91102 | Optional: Construct and deliver a crafted and controlled oral text | 3 | Internal |
| AS 91103 | Create a crafted and controlled visual and verbal text | 3 | Internal |
| AS91106 | Form developed personal responses to independently read texts | 4 | Internal |
| AS 91105 | Use information literacy skills to form developed conclusions | 4 | Internal |

English

Level: 2

Code: EN203

Course Information: This course is assessed using Achievement Standards, both external and internal, and is designed to develop further skills covered at Level 1. The course will cover the study of literature, research, both formal and creative writing, language analysis and oral presentation. Students must ensure that they gain at least 5 credits for writing and 5 credits for reading in this course, as this is a requirement for University Entrance.

Prerequisites: At least 14 credits, from English 102.

Required for: Year 13 English, Media Studies.

Credits: 25 (Internal and External)

Cost: None

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------|---------|-------------------|
| AS91102 | Construct and deliver a crafted and controlled oral text | 3 | Internal |
| AS91105 | Use information literacy skills to form developed conclusions | 4 | Internal |
| AS91101 | Produce a selection of crafted and controlled writing | 6 | Internal |
| AS91098 | Analyse specified aspects of studied written texts using supporting evidence | 4 | External |
| AS91099 | Analyse specified aspects of studied visual texts using supporting evidence | 4 | External |
| AS91 | Analyse significant aspects of unfamiliar written texts through close reading | 4 | External |

English

Level: 3

Code: EN303

Course Information: This course will be assessed using Achievement Standards and is designed to offer students who have completed English 202 the previous year the opportunity to gain Level 3 credits. The intention is that students who undertake this course will improve their written, visual and oral communication skills through a number of thematic units. This course can be used as a University Entrance subject.

Prerequisites: 14 credits in English 202 taken from Level 2 Achievement Standards. This includes 5 reading and 5 writing credits from Level 2 English.

Credits: 19 (Internal)

Cost: None

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91475 | Produce a selection of fluent and coherent writing which develops, sustains and structures ideas | 6 | Internal |
| AS91476 | Create and deliver a fluent oral and coherent text which develops, sustains and structures ideas | 3 | Internal |
| AS91477 | Create a fluent and coherent visual text which develops, sustains and structures ideas, using verbal and visual language | 3 | Internal |
| AS91478 | Respond critically to significant connections across texts supported by evidence | 4 | Internal |
| AS91480 | Respond critically to significant aspects of visual texts through close reading | 3 | Internal |

English

Level: 3

Code: EN304

Course Information: This course will be assessed against Level 3 Achievement Standards and will be a mixture of both internal and external assessment. This course is designed to challenge students' abilities in analysing and interpreting complex texts. These texts cover both written and visual media. Shakespeare is also a compulsory element. Students are expected to have essay-writing skills and be prepared to read broadly. Students have the opportunity, in discussion with the teacher, to enrol for English Scholarship.

Prerequisites: 14 credits in English 203.

Credits: 25 (Internal and External)

Cost: None

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91472 | Respond critically to specified aspects of studied written texts supported by evidence | 4 | External |
| AS91473 | Respond critically to specified aspects of studied visual texts supported by evidence | 4 | External |
| AS91474 | Respond critically to significant aspects of unfamiliar written texts through close reading | 4 | External |
| AS91475 | Produce a selection of fluent and coherent writing which develops, sustains and structures ideas | 6 | Internal |
| AS91476 | Create and deliver a fluent oral and coherent text which develops, sustains and structures ideas | 3 | Internal |
| AS91478 | Respond critically to significant connections across texts supported by evidence | 4 | Internal |

EL (English for Speakers of Languages other than English)

Level: 1

Code: EL100

Course Information: This course aims to develop the reading, writing, listening and conversational skills of students. It will also focus on helping students with understanding of the language involved in their classwork in other subjects. Although this course is aimed at the 100 level, it is designed to allow students to attempt EL unit standards from levels 1 to 3, catering to their English needs and abilities. This is an internally assessed course.

Prerequisites: The student is not a native English speaker and has limited language skills. The students will be selected through language testing.

Credits: All Internal. The Standards below are only examples as standards can change depending on the ability and needs of students.

Cost: Required texts may be purchased at the beginning of the year \$40 approx donation

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------|---------|-------------------|
| US27998 | Complete Basic Forms on Familiar Topics | 4 | Internal |
| US27997 | Write Basic Texts for Practical Purposes. | 7 | Internal |
| US27996 | Write Basic Texts on Familiar Topics | 8 | Internal |

EL (English for Speakers of Languages other than English)

Level: 2

Code: EL200

Course Information: This course aims to develop the reading, writing, listening and conversational skills of students. It will also focus on helping students with understanding of the language involved in their classwork in other subjects. Although this course is aimed at the 200 level, it is designed to allow students to attempt EL Unit Standards from levels 1 to 3, catering to their English needs and abilities. This is an internally assessed course.

Prerequisites: The student is not a native English speaker and has limited language skills. The students will be selected through language testing.

Credits: Internal. The Standards below are examples only as they can change each academic year depending on the ability and needs of the students.

Cost: Required texts may be purchased at the beginning of year.

| Standard | Title | Credits | Internal/External |
|----------|------------------------------------------------------|---------|-------------------|
| US27983 | Read and Understand Simple Texts on Familiar Topics. | 8 | Internal |
| US7999 | Write Simple Texts on Familiar Topics. | 8 | Internal |
| US28000 | Write Texts for Practical Purposes. | 7 | Internal |

EL (English for Speakers of Languages other than English)

Level: 3

Code: EL300

Course Information: This course aims to develop the reading, writing, listening and conversational skills of students. It will also focus on helping students with understanding of the language involved in their classwork in other subjects. Although this course is aimed at the 300 level, it is designed to allow students to attempt EL unit standards from levels 1 to 3, catering to their English needs and abilities. This is an internally assessed course.

Prerequisites: The student is not a native English speaker and has limited language skills. The students will be selected through language testing.

Credits: Internal. The Standards below are examples only as Standards can change depending on the ability and needs of students.

Cost: Required texts may be purchased at the beginning of the year.

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------|---------|-------------------|
| US28068 | Write Texts on Familiar Topics. | 5 | Internal |
| US28056 | Read and Understand Texts on Familiar Topics. | 5 | Internal |
| US28062 | Participate in a Formal Interview. | 5 | Internal |

Food & Nutrition (course provided by St Catherine's College)

Level: 2

Code: FN200

Course Information: For information on courses provided by St Catherine's College please visit <http://stcatherinescollege.school.nz/course-selection/>

Food & Nutrition (course provided by St Catherine's College)

Level: 3

Code: FN300

Course Information: For information on courses provided by St Catherine's College please visit <http://stcatherinescollege.school.nz/course-selection/>

French

Level: 1

Code: FR102

Course Information: This course aims to continue to develop the four language skills of Listening, Speaking, Reading and Writing together with an understanding of the way of life in French speaking countries to prepare students for NCEA Level One. Of the 5 Achievement Standards offered, 3 are internally assessed, giving a total of 14 credits, and 2 are externally assessed, adding the final 10 credits of the available 24 credits at this level.

Prerequisites: Achievement at a reasonable level in Year 10 French.

Required for: Year 12 and 13 French.

Credits: 24 (14 Internal, 10 External)

Cost: There may be a cost associated with a vocabulary learning website.

| Standard | Title | Credits | Internal/External |
|----------|---------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS90878 | Demonstrate understanding of a variety of spoken French texts on areas of most immediate relevance. | 5 | External |
| AS90879 | Give a spoken presentation in French that communicates a personal experience. | 4 | Internal |
| AS90880 | Interact using spoken French to communicate personal information, ideas and opinions in different situations. | 5 | Internal |
| AS90881 | Demonstrate understanding of a variety of French texts on areas of most immediate relevance. | 5 | External |
| AS90882 | Write a variety of text types in French on areas of most immediate relevance. | 5 | Internal |

French (Course provided by St Catherine's College)

Level: 2

Code: FR200

Course Information: For information on courses provided by St Catherine's College please visit <http://stcatherinescollege.school.nz/course-selection/>

French (Course provided by St Catherine's College)

Level: 3

Code: FR300

Course Information: For information on courses provided by St Catherine's College please visit <http://stcatherinescollege.school.nz/course-selection/>

Gateway

 - This not a University Entrance Approved Subject

Level: 2/3

Code: GW202/303 - **Limited to 25 placements**

Staff Mr. Mike Woods and Mrs Colleen Flynn

Entry: By application with CV and an Interview. Parental involvement required.

Gateway is open to Year 12 and 13 students with a strong Career and Academic focus. Students must be work ready and can maintain other course work, as they are out on work placement one day a week or in school holidays.

The benefits from long term work experience can lead to; Employment, Informed Career Choices, Tertiary pathways and Networking with Employers. Employers require employees with Driving skills so we support students to work through their licences.

The unit standards below are compulsory due to the need to maintain our student's safety and awareness on the job. We also offer course work relevant to their occupation which comes from their Industry Training Organisations (ITOs). e.g. Plumbers do course work from SKillsNZ which links to apprenticeship papers, polytechnics and time served.

Compulsory Gateway Courses

| Unit | Term | Description | Level | Credits |
|------------|------|-----------------------------|-------|---------|
| 17602 | 1 | Apply Hazard Identification | 3 | 4 |
| 17592 | 1 | Injury Prevention | 3 | 4 |
| 17593 | 1 | Apply Safe work practices | 3 | 4 |
| 497 | 1 | Health and Safety | 1 | 3 |
| 6400/01/02 | 1 | First Aid | 1/2/3 | 4 |
| 10781 | 1 | Career Plan Year 12 | 2 | 3 |
| 4251 | 1 | Career Plan Year 13 | 3 | 2 |
| No Credits | 1 | Site Safe | X | X |

Course costs: 50% of the Learner or Restricted Driver Licence testing.
We supply safety equipment required for work experience

Career Links: to Polytechnic courses, Employers, Work and Apprenticeships.

Careers Department – <https://sites.google.com/a/stpats.school.nz/spccareers/>

Career Central (Student Career Profile) - <http://www1.cc.school.nz/>

Careers New Zealand - www.careers.govt.nz

Geography

Level: 1

Code: GE102

Course Information: Geography gives students a multi-disciplinary or holistic view of the world, combining knowledge, skills and understandings of the physical and social sciences. It fosters a curiosity about place and space and provokes questions about natural and cultural environments and their interconnectedness.

The Year 11 Geography course helps us to understand our world. It looks at earthquakes, tropical cyclones and other natural disasters. The course explores some of the big issues facing New Zealand and the world, including overpopulation, poverty and the sustainable use of resources. We use computers to plot information on maps which will better prepare our geography students for a growing industry surrounding GIS. Geography 102 has a mix of both practical and academic work.

Prerequisites: *None*

Required for: The course will assist understanding of future Geography courses although not required.

Credits: 17 credits (8 Externally and 9 Internally)

Level 1 Literacy and UE Numeracy Standards marked L and/or N go towards meeting the Level 1 Literacy and/ or UE Numeracy requirements.

Additional Course Costs: A Geographic Skills workbook is suggested to complement learning done in class. Field trips can be a part of the Geography course these are not mandatory although will assist in understanding. There are additional costs associated with these.

| Standard | Literacy and Numeracy | Title | Credits | Internal/External |
|----------|-----------------------|--------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91010 | L | Apply concepts and basic geographic skills to demonstrate understanding of a given environment | 4 | External |
| AS91007 | L | Demonstrate geographic understanding of environments that have been shaped by extreme natural event(s) | 4 | External |
| AS91012 | L | Describe aspects of a contemporary New Zealand geographic issue | 3 | Internal |
| AS91013 | L | Describe aspects of a geographic topic at a global scale | 3 | Internal |
| AS91014 | L | Apply spatial analysis, with direction, to solve a geographic problem | 3 | Internal |

Geography

Level: 2

Code: GE203

Course Information: Geography gives students a multidisciplinary or holistic view of the world, combining knowledge, skills and understandings of the physical and social sciences. It fosters a curiosity about place and space and provokes questions about natural and cultural environments and their connectedness.

The Year 12 Geography course has a global focus. The course goes from New Zealand, to South America to North America, Africa and Asia. Students study the challenges and issues faced by many parts of the world and then look at ways to provide solutions. The course involves a rich mix of skills including map work, model making and geographic research. A 3 day field trip to Tongariro is one of the course highlights as part of the study on volcanic activity in New Zealand. Students will come to understand the complexity of the relationships that exists between people and the environment. Through gaining such understandings, they are equipped to act to ensure a better future world for people and society.

Prerequisites: 16 credits or more in Level 1 Geography or English 102, or Level 1 Geography or History, Religious Education or Te Reo Māori.

Required for: The course will assist the understanding of future Geography courses although not required.

Credits: 22 credits(14 Internal, 8 External)

UE Approved This subject leads to a Level 3 approved UE course. Standards marked R and/or W can be counted as either Reading OR Writing credits for UE Literacy.

Additional Course Costs: \$200 approximately for the field trip which is complementary to the course. There are additional costs associated with these. A Geographic Skills workbook is suggested to complement learning done in class.

| Standard | UE Literacy | Title | Credits | Internal/External |
|----------|-------------|------------------------------------------------------------------------------------------|---------|-------------------|
| AS91240 | RW | Demonstrate geographic understanding of a large natural environment | 4 | External |
| AS91243 | | Apply concepts and geographic skills to demonstrate understanding of a given environment | 4 | External |
| AS91244 | N | Conduct geographic research with guidance | 5 | Internal |
| AS91245 | | Explain aspects of a contemporary geographic issue | 3 | Internal |
| AS91246 | | Explain aspects of a geographic topic at a global scale | 3 | Internal |
| AS91247 | | Apply spatial analysis, with guidance, to solve a geographic problem | 3 | Internal |

Geography

Level: 3

Code: GE304

Course Information: Geography gives students a multidisciplinary or holistic view of the world, combining knowledge, skills and understandings of the physical and social sciences. It fosters a curiosity about place and space and provokes questions about natural and cultural environments and their interconnectedness. The Year 13 Geography course involves an in-depth study into global and local geographic issues. The course includes three days spent in Rotorua looking at tourism development. The subject also enables students to do a detailed research project on a contemporary issue that relates directly to New Zealand as well as an analysis of a global pattern of their choice. The course provides an excellent skills base for many tertiary courses. The majority of the standards require a strong literacy skill to be successful.

Prerequisites: 15 credits in Level 2 Geography including an Achieved or higher in Level 2 Geography (this must include AS91240) or English 203 (this must include AS91101), or Level 2 Classics, History, Media Studies, Religious Education or Te Reo Māori. Students should have the reading and writing Literacy standards needed for entry to any New Zealand University before entering this course.

Credits: 17 Credits (8 External and 9 Internal)

UE Approved: This subject is an approved UE course of study. Standards marked (N) can be used towards meeting UE Numeracy requirements and standards marked (R/W) can be counted as either Reading OR Writing credits for Assessment UE Literacy

Cost: \$300 approximately for the field trip which is complementary to the course. There are additional costs associated with these. A Geographic Skills workbook is suggested to complement learning done in class.

| Standard | UE Literacy | Title | Credits | Internal/External |
|----------|-------------|-------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91427 | RW | Demonstrate understanding of how a cultural process shapes geographic environment | 4 | External |
| AS91428 | | Analyse a significant contemporary event from a geographic perspective Internal | 3 | Internal |
| AS91429 | | Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills | 4 | External |
| AS91431 | R | Analyse aspects of a contemporary geographic issue | 3 | Internal |
| AS91432 | | Analyse aspects of a geographic topic at a global scale | 3 | Internal |

Scholarship in Geography, 93401: Students who enter Scholarship are required to demonstrate higher level critical thinking. The student will critically analyse a geographic context, and transfer and apply geographic concepts and understanding in essay format.

Ancient and Modern History

Level: 1

Code: HI102

Course Information: History offers an understanding of human activities in the past in the context of change through time. Entering into other times and places challenges students to think about continuity and change, similarities and differences, cause and effect. History enables students to understand their heritage and that of their community, society and nation. It also gives greater insight into the future shape of the world we inhabit. History 102 will focus on ancient and modern History. The Level 1 History theme is **War and Peace**, concentrating on forces that have shaped the modern world: war, revolution, fascism, communism, rivalries and big power politics, racism and the struggle for civil rights, and New Zealand's place in the world. We will begin the course by completing an historical survey of conflict and carnage in the ancient world, beginning with Alexander the Great OR Leonidas, the Spartans and the Battle of Thermopylae, OR Spartacus and the Slave Revolt (depending on student interest). The Modern History component of the course may include Global Conflict: WW1 and the decade of 1910-1920; the Māori Battalion; Fascism and WW2; the Rise of Hitler; Racial Conflict: America, 1920–1973: Opportunity and inequality; Bastion Point and NZ; Social Conflict: Springbok Tour in NZ, 1981. Besides learning about important events, people and places, students will be given the opportunity to develop a broad range of skills including: gathering and selecting information from a variety of sources, recognising specific points of view, bias and propaganda, comprehending and using historical relationships, presenting an argument and supporting it with well-chosen evidence and reasoned conclusions. History is not just about “them;” it is also about us. You will have an opportunity to engage with your own family history in the context of an historical event, or place, of significance to New Zealanders. Your research is precisely the kind of work done by professional historians.

Prerequisites: None.

Required for: History 102 is an approved course which will allow you to earn the Literacy reading and writing credits required for NCEA Level 1.

Credits: Up to 31 (up to 24 internal, particularly designed for those students who wish to do an internal pathway, 8 external)

Level 1 Literacy and UE Numeracy Standards marked L and/or N go towards meeting the Level 1 Literacy and/ or UE Numeracy requirements.

| Standard | Level 1 Literacy | Title | Credits | Internal/External |
|----------|------------------|------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91001 | L | Carry out an investigation of an historical event, or place, of significance to New Zealanders | 4 | Internal |
| AS91002 | L | Demonstrate understanding of an historical event, or place, of significance to New Zealanders | 4 | Internal |
| AS91005* | L | Describe the causes and consequences of an historical event | 4 | External |
| AS91024+ | L | Demonstrate understanding of social relationships in the classical world | 6 | Internal |

| OPTIONAL ACHIEVEMENT STANDARDS (with HOD approval) | | | | |
|----------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------|---|----------|
| AS91003 | L | Interpret sources of an historical event of significance to New Zealanders | 4 | External |
| AS91004 | L | Demonstrate understanding of different perspectives of people in an historical event of significance to New Zealanders | 4 | Internal |
| AS91025+ | L | Demonstrate understanding of links between aspects of the classical world and another culture | 6 | Internal |

*Students may wish to limit the number of standards they attempt from those offered here. Students and parents need to be mindful of the minimum number of credits required from the subject which count toward entry to Level 2.

+ Please note that these standards belong to the Level 1 Classics domain.

History

Level: 2

Code: HI203

Course Information: The theme of the course is ***Revolutionaries, Rebels and the Reviled***. Year 12 History examines major events, forces and people who have helped shape our modern world. During the course you will be encouraged to evaluate sources and draw conclusions supported by evidence. You will learn how to recognise change and continuity in history. You will use critical thinking to compare and contrast and establish the significance of historical events. Topics have been selected for their interest and importance, and may include: The Fall of the Roman Empire; The Witch Craze: The Salem Witch Trials of 1692; America, 1840–1895: Expansion and consolidation; Russia, 1894–1945: Tsardom and communism; Religion in New Zealand in the 19th century - the Christian Mission, Māori 'conversion', Christianity and syncretic religions, the rise of Prophet movements: Te Ua Haumene and Pai Marire (including Titokowaru's War), Te Kooti and Ringatu, Te Whiti and Tohu at Parihaka; The Musket Wars, the New Zealand Wars 1860-1872; Germany, 1890–1945: Democracy and dictatorship; Conflict and tension between East and West, 1945–1972, with a focus on the causes and events of the Cold War; Conflict and tension in Asia, 1950–1975 and focuses on the causes and events of the Cold War in Asia (the Korean War and the Vietnam War); Conflict and tension, 1990–2009, focuses on conflict in the Gulf and Afghanistan; New Zealand's Rainbow Warrior Affair, and Mau Movement in Western Samoa. Students explore the past through a combination of studying primary material and by engaging with historical narrative. They learn how to structure, judge and weigh arguments and how best to interrogate source material, analyse and discuss historical arguments and debates, defend an opinion or idea with relevant historical data, understand and use historical concepts. The broad range of the material he encounters means that a boy studying History obtains a robust understanding of the world in which he lives.

Prerequisites: 16 credits or more in Level 1 History (this must include AS91005) or English 102, or Level 1 Geography, Religious Education or Te Reo Māori.

Required for: While it is not compulsory to have done the Year 12 course to enrol in Year 13 Classics, Geography or History, it is desirable

Credits: Up to 19 (14 Internal, 5 External)
 UE Approved This subject leads to a Level 3 approved UE course. Standards marked R and/or W can be counted as either Reading OR Writing credits for UE Literacy.

Additional Course Costs: \$300 (Field trips). Field trips are a part of the History course. There are additional costs associated with these.

| Standard | UE Literacy | Title | Credits | Internal/External |
|----------|-------------|-------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91229 | R | Carry out an inquiry of an historical event or place that is of significance to New Zealanders | 4 | Internal |
| AS91230 | R | Examine an historical event or place that is of significance to New Zealanders | 5 | Internal |
| AS91232 | RW | Interpret different perspectives of people in an historical event that is of significance to New Zealanders | 5 | Internal |
| AS91233 | RW | Examine causes and consequences of a significant historical event | 5 | External |

History

Level: 3

Code: HI304

Course Information: ***The Empire Strikes Back*** is the theme of the Year 13 course. Students will discover the forces that contributed to the British Empire's emergence. These include the role of politics, military power and economic development. Students will analyse the effects of this change on people in different contexts over time. The theme will be taught through the study of the following topics: • The Might of the British Empire 1532 – 1901 • Cultural Collision – Empire versus the New Zealand Maori • Frontier Wars – Convicts & settlers versus the Australian Aborigine and the American Indian • Racial divide - Apartheid in South Africa 1948-1994

Students will develop ability to analyse historical context and argue a reasoned view on contested events.

Prerequisites: 15 credits or more in History 203 (this must include AS91233) or English 203 (this must include AS91101), or Level 2 Classics, Geography, Media Studies, Religious Education or Te Reo Māori. Students should have the reading and writing Literacy standards needed for entry to any New Zealand University before entering this course.

Credits: Up to 25 (15 internal, 10 external)

UE Approved: This subject is an approved UE course of study. Standards marked R and/or W can be counted as either Reading OR Writing credits for UE Literacy.

Additional Cost Costs: \$300 (Field trips/Workbook and Write-on-Notes may be purchased. Field trips are a part of the History course. There are additional costs associated with these.

| Standard | UE Literacy | Title | Credits | Internal/External |
|----------|-------------|--------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91434* | R | Research an historical event or place of significance to New Zealanders, using primary and secondary sources | 5 | Internal |
| AS91435* | R | Analyse an historical event, or place, of significance to New Zealanders | 5 | Internal |
| AS91436 | RW | Analyse evidence relating to an historical event of significance to New Zealanders | 4 | External |
| AS91437* | R | Analyse different perspectives of a contested event of significance to New Zealanders | 5 | Internal |
| AS91438 | RW | Analyse the causes and consequences of a significant historical event | 6 | External |

Scholarship in History, 93403: Students who enter Scholarship are required to demonstrate higher level critical thinking. The student will establish valid judgements about historical research and the nature of evidence. They must be able to communicate a substantiated argument that critically evaluates historical narratives, establishes historical relationships, synthesises relevant ideas and demonstrates an understanding of the scope of historical contexts.

*Students are encouraged to take one of these two internally assessed standards.

Mathematics

Level: 1

Code: MX100

Course information: This course is an alternative for students to Mathematics 102 or 101. It is structured to provide an alternative path for students to gain their Numeracy requirement toward their NCEA Level 1. Students within this course will receive Numeracy reinforcement, further develop basic mathematical skills and be given assessment opportunities that suit their learning needs. The course will focus on attaining the Level 1 Numeracy requirement via Unit Standards. Some Achievement Standards may be offered as extension for selected students.

Prerequisites: None - On the results of Year 10 assessment and the advice of the subject teacher. Numbers in this course are restricted.

Required for: Further study in: MX101.

Credits: 10 Internal credits

Cost: (Workbooks may be purchased. Cost to be advised by teacher) (Casio fx82 calculator)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------|---------|-------------------|
| US26623 | Apply numeric reasoning in solving problems | 4 | Internal |
| US26627 | Apply measurement in solving problems | 3 | Internal |
| US26626 | Investigate bivariate numerical data using the statistical enquiry cycle | 3 | Internal |

Mathematics

Level: 1

Code: MX101

Course Information: This course is an alternative for students to Mathematics 102. It is structured to provide an alternative path for students to gain their Numeracy requirement toward their NCEA Level 1. Students within this course will be provided with learning and assessment opportunities that suit their learning needs. The course will follow the NCEA prescription but will focus on attaining "Achievement" for Achievement Standards.

Prerequisites: None - Based on the results of Year 10 assessment and the advice of the subject teacher.

Required for: Students who gain 12 credits in MX101 have automatic right of entry into MX202. Passing Achievement Standards 91026, 91029, 91036 and 91038 gives entry to MS203 Mathematics and Statistics.

Credits: 16 Internal credits

Cost: \$110.00 approx for graphics calculator. (Workbooks may be purchased. Cost to be advised by the teacher)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------|---------|-------------------|
| AS91026 | Apply numeric reasoning in solving problems | 4 | Internal |
| AS91030 | Apply measurement in solving problems | 3 | Internal |
| AS91029 | Apply linear algebra in solving problems | 3 | Internal |
| AS91036 | Investigate Bivariate numerical data using the statistical enquiry cycle | 3 | Internal |
| AS91038 | Investigate a situation involving elements of chance | 3 | Internal |

Mathematics

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Level: | 1 |
| Code: | MX102 |
| Course Information: | MX102 covers topics in algebra, graphing, statistics, number and probability. This course aims to give students the necessary mathematical skills and background to continue with Mathematics at Level 2. Students further develop competence and confidence to use their own language, and the language of mathematics, to express mathematical ideas. |
| Prerequisites: | On the results of Year 10 assessment and the advice of the subject teacher. |
| Required for: | Further study in MS203 and MC203 |
| Credits | 20 credits (8 Internal, 12 External) |
| Cost | \$110.00 approx for graphics calculator. (Workbooks may be purchased. Cost to be advised by teacher) |

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------|---------|-------------------|
| AS91028 | Investigate relationships between tables, equations and graphs | 4 | External |
| AS91026 | Apply numeric reasoning in solving problems | 4 | Internal |
| AS91035 | Investigate a given multivariate data set using the statistical enquiry cycle | 4 | Internal |
| AS91027 | Apply algebraic procedures in solving problems | 4 | External |
| AS91037 | Demonstrate understanding of chance and data | 4 | External |
| AS91038 | Investigate a situation involving elements of chance | 3 | Internal |

Mathematics

Level: 2

Code: MX202

Course Information: MX202 is for students who have had success in some Achievement Standards at Level 1, but whose algebra skills are below the level necessary to cope with the MC203 or MS203 course. This course aims to further develop knowledge of mathematics, including the mathematics required for life skills.

Prerequisites: Students who gain 12 credits from Achievement Standards.

Credits: Internal. The Standards below are examples only as they can change each academic year depending on the ability and needs of the students

Cost: \$110.00 approx for graphics calculator. (Workbooks may be purchased. Cost to be advised by teacher)

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91256 | Apply co-ordinate geometry methods in solving problems | 2 | Internal |
| US28097 | Analyse and select banking products and services in relation to personal finances | 3 | Internal |
| AS91260 | Apply network methods in solving problems | 2 | Internal |
| US28094 | Produce a balanced household budget and adjust the budget to reflect changing financial circumstances | 3 | Internal |
| AS91268 | Investigate a situation involving elements of chance using a simulation | 2 | Internal |
| AS91263 | Design a questionnaire | 3 | Internal |
| AS91625 | Conduct an experiment to investigate a situation using statistical methods | 3 | Internal |

Mathematics

Level: 2

Code: MC203

Course Information: The MC203 course aims to consolidate and extend students' mathematical skills, as well as further developing logical thinking and problem solving techniques. It is designed to cover the mathematics required by other subjects at this level, and to lead on to further academic study.

Prerequisites: An achieved grade in Achievement Standards 91026, 91027, 91028, 91037. Merit is preferable for Algebra

Required for: Level 3 Mathematics with Calculus.

Credits: 20 credits (7 Internal, 13 External)

Cost: \$110.00 approx for graphics calculator. (Workbooks may be purchased. Cost to be advised by teacher)

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------|---------|-------------------|
| AS91257 | Apply graphical methods in solving problems | 4 | Internal |
| AS91259 | Apply trigonometric relationships in solving problems | 3 | Internal |
| AS91258 | Apply sequences and series in solving problems | 2 | Internal |
| AS91261 | Apply algebraic methods in solving problems | 4 | External |
| AS91262 | Apply calculus methods in solving problems | 5 | External |
| AS91267 | Apply probability methods in solving problems | 4 | External |

Mathematics

Level: 2

Code: MS203

Course Information: The MS203 course aims to consolidate and extend students' mathematical skills in Statistics, as well as further developing logical thinking and problem solving techniques. It is designed to cover the mathematics required by other subjects at this level, and to lead on to further academic study and higher mathematics.

Prerequisites: An achieved grade in Achievement Standards 91035,91037 plus 4 more credits.

Required for: MS304

Credits: 17 credits (13 Internal, 4 External)

Cost: \$110.00 approx for graphics calculator. (Workbooks may be purchased. Cost to be advised by the teacher)

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------|---------|-------------------|
| AS91265 | Conduct an experiment to investigate a situation using statistical methods | 3 | Internal |
| AS91264 | Use statistical methods to make an inference | 4 | Internal |
| AS91260 | Apply network methods in solving problems | 2 | Internal |
| AS91267 | Apply probability methods in solving problems | 4 | External |
| AS91268 | Investigate a situation involving elements of chance using a simulation | 2 | Internal |
| AS91269 | Apply systems of equations in solving problems | 2 | Internal |

Mathematics

Level: 3

Code: MC304

Course Information: This course continues the earlier study of Mathematics. The aim of MC304 is to provide students with a broad range of mathematical skills and techniques that will be required in a wide variety of fields – in fact anything where change occurs. Any student who is considering tertiary studies in these areas will find it of value.

Prerequisites: An Achieved grade in Achievement Standards, 91257, 91259, 91261 and 91262. A Merit in 91261 is preferable due to a high level of algebra required.

Required for: Further tertiary study.

Credits: 21

Cost: \$110.00 approx for graphics calculator. (Workbooks may be purchased. Cost to be advised by teacher)

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------|---------|-------------------|
| AS91575 | Apply trigonometric methods in solving problems | 4 | Internal |
| AS91573 | Apply the geometry of conic sections in solving problems (Extension) | 3 | Internal |
| AS91577 | Apply the algebra of complex numbers in solving problems | 5 | External |
| AS91578 | Apply differentiation methods in solving problems | 6 | External |
| AS91579 | Apply integration methods in solving problems | 6 | External |

Media Studies

Level: 3

Code: ME304

Course Information: This course has a natural follow on from Media Studies 203. In particular there is a greater focus on the construction of media, the popular music industry and the broader impact of the media on society as we move to a more globalised, media-saturated world. The practical assessment is the creation of a short film which may be selected to showcase at the Taylor Fest Film Festival. When we watch TV, surf the Web or watch a movie we are creating our own meanings and emotions. The media exercise enormous influence and power on our daily lives. So this course teaches students to become critical users of other people's media.

Prerequisites: At least 15 credits in Media Studies or English 203 (this must include AS91101), or Level 2 Classics, Geography, History, Religious Education or Te Reo Māori. Students should have the reading and writing Literacy standards needed for entry to any New Zealand University before entering this course.

Credits: Up to 23 credits (19 internal, 4 external)

UE Approved This subject is an approved UE course of study. Standards marked (R/W) can be counted as either Reading OR Writing credits for UE Literacy

Additional Course
Costs

| Standard | UE Literacy | Title | Credits | Internal/External |
|----------|-------------|------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91492 | | Demonstrate understanding of the media representation of an aspect of New Zealand culture or society | 3 | Internal |
| AS91493 | RW | Demonstrate understanding of a relationship between a media genre and society | 4 | External |
| AS91494 | | Produce a design for a media product that meets the requirements of a brief | 4 | Internal |
| AS91495 | | Produce a media product to meet the requirements of a brief | 6 | Internal |
| AS91496 | | Demonstrate understanding of a significant development in the media | 3 | Internal |
| AS91497 | W | Write a media text to meet the requirements of a brief | 3 | Internal |

Scholarship in Media Studies, 93303: Students who enter Scholarship are required to demonstrate higher level critical thinking. The student will demonstrate a comprehensive understanding of media theory and practice through the analysis of texts, processes and issues.

Music

Level: 1

Code: MU102

Course Information: This course will enable students to reach their musical potential as performers and composers. It aims to stimulate and develop an appreciation and life long enjoyment of music, develop social skills through group co--operation and assist in developing confidence through performances in the College and in the community. All students must select an instrument to study and attend lessons from an itinerant or private tutor (voice is an instrument). Students are not required to enrol for all of the Achievement Standards offered but will do work in class that covers aspects of each of them. (Most students will do about 20 credits). All students must have a strong commitment to learning a musical instrument and are expected to practise on their instrument regularly. In addition, all students will learn the keyboard and develop sight-singing and musicianship skills. Involvement in a co-curricular music group (e.g. choir, band, barbershop, chamber music, etc) is strongly encouraged.

Prerequisites: Achieving at the expected curriculum level in Year 10 Performance Music, OR passes in Grade 2 Theory of Music and Practical Examinations. (e.g. ABRSM or equivalent).

Required for: NCEA Levels 2-3 and Scholarship Music.

Credits: 20 - 34

Cost: \$10 Materials Donation (\$20 approx for a Theory of Music book may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------------------|---------|-------------------|
| AS91090 | Perform two pieces of music as a featured soloist | 6 | Internal |
| AS91091 | Demonstrate ensemble skills through performing a piece of music as a member of a group | 4 | Internal |
| AS91092 | Compose two original pieces of music | 6 | Internal |
| AS91093 | Demonstrate aural and theoretical skills through transcription | 4 | External |
| AS91094 | Demonstrate knowledge of conventions used in music scores | 4 | External |
| AS91095 | Demonstrate knowledge of two music works from contrasting contexts | 6 | Internal |
| US26687 | Demonstrate and apply knowledge of sound technology for a performance context | 4 | Internal |

Music

Level: 2

Code: MU203

Course Information: This course will enable students to reach their musical potential as performers and composers. The course aims to stimulate and develop an appreciation and life long enjoyment of music, develop social skills through group co-operation and assist in developing confidence through performances in the College and in the community. All students must select an instrument to study and attend lessons from an itinerant or private tutor (voice is an instrument). Students are not required to enrol for all of the Achievement Standards offered but will do work in class that covers aspects of most of them - most students will do at least 20 credits. All students must have a strong commitment to learning a musical instrument and are expected to practise on their instrument regularly. In addition, all students will learn the keyboard and develop sight-singing and musicianship skills. Involvement in a co-curricular music group (choir, band, barbershop, chamber music, etc) is strongly encouraged.

Prerequisites: At least 14 credits in Level 1 Music OR a pass in Grade 3 Theory of Music and Practical Examinations (e.g. ABRSM or equivalent).

Required for: NCEA Level 3 and Scholarship Music. Tertiary Music - degrees in Music and the Performing Arts.

Credits: 20 - 30

Cost: \$10 Materials Donation (\$20 approx for a Theory of Music book may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------------------------------------------|---------|-------------------|
| AS91270 | Perform two substantial pieces of music as a featured soloist. | 6 | Internal |
| AS91274 | Perform a substantial piece of music as a featured soloist on a second instrument | 3 | Internal |
| AS91272 | Demonstrate ensemble skills by performing a substantial piece of music as a member of a group | 4 | Internal |
| AS91271 | Compose two substantial pieces of music | 6 | Internal |
| AS91275 | Demonstrate aural understanding through written representation | 4 | External |
| AS91276 | Demonstrate knowledge of conventions in a range of music scores | 4 | External |
| AS91277 | Demonstrate understanding of two substantial contrasting music works | 6 | External |
| AS91273 | Devise an instrumentation for an ensemble | 4 | Internal |

Music

Level: 3

Code: MU304

Course Information: This course will enable students to reach their musical potential as performers and composers. The course aims to stimulate and develop an appreciation and lifelong enjoyment of music, develop social skills through group co-operation and assist in developing confidence through performances in the College and in the community. All students must select an instrument to study and attend lessons from an itinerant or private tutor (voice is an instrument). Students are not required to enrol for all of the Standards offered but in consultation with the Music teacher, make a selection of those they wish to do. Most students will do at least 18 credits. All students must have a strong commitment to learning a musical instrument and are expected to practise on their instrument regularly. In addition, all students will learn the keyboard and develop sight-singing and musicianship skills. Involvement in a co-curricular music group (choir, band, barbershop, chamber music, etc) is strongly encouraged.

Prerequisites: At least 14 credits in Level 2 Music OR passes in Grade 4 Theory of Music and Practical Examinations (e.g. ABRSM or equivalent).

Required for: Tertiary Study - Degrees in Music and the Performing Arts

Credits: 18 - 30

Cost: \$10 Materials Donation (\$20.00 approx for a Theory of Music book may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91416 | Perform two programmes of music as a featured soloist | 8 | Internal |
| AS91417 | Perform a programme of music as a featured soloist on a second instrument | 4 | Internal |
| AS91418 | Demonstrate ensemble skills by performing two substantial pieces of music as a member of a group | 4 | Internal |
| AS91419 | Communicate musical intention by composing three original pieces of music | 8 | Internal |
| AS91420 | Integrate aural skills into written representation | 4 | External |
| AS91421 | Demonstrate understanding of harmonic and tonal conventions in a range of music scores | 4 | External |
| AS91422 | Analyse a substantial music work | 6 | External |
| AS91424 | Create two arrangements for an ensemble | 4 | Internal |
| AS91425 | Research a music topic | 6 | Internal |
| US23730 | Operate music sequencing, editing, and music notation application(s) | 8 | Internal |

Outdoor Education

Level: 2

Code: OE203

Course Information: The focus for this course is personal development through a place-responsive framework. Specific areas of development will be self-management, self-confidence, as well as environmental education. Students are required to pay a course fee of \$350 to cover the costs of trips. These include an introduction to outdoor education camp, bush survival tramp, assessment tramp, as well as visits to various local sites during class time.

Prerequisites: Pass at Level 1 NCEA

Required for: Entry into OE304 and OL303

Credits 19

Cost \$350 (Equipment Donation)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91330 | Perform a physical activity in an applied setting | 4 | Internal |
| AS91333 | Analyse the application of risk management strategies to a challenging outdoor activity | 3 | Internal |
| AS91334 | Consistently demonstrate social responsibility through applying a social responsibility model in physical activity | 3 | Internal |
| AS90810 | Plan, implement and evaluate a personal action that will contribute towards a sustainable future | 6 | Internal |
| AS90813 | Describe values and associated behaviours in relation to a sustainable future | 3 | Internal |

Outdoor Education

Level: 3

Code: OE304

Course Information: The focus for this year's course is the development of personal skills and the development of sensitivity towards other people and the environment. This is done through Place based education, leadership skills, sea kayaking as well as communication and planning skills. Students during the outdoor education course will be required to pay a course fee of \$450 to cover most activities and trips. These include an introduction camp, sea kayak trip, five day expedition trip, and visits to various local sites during class time.

Prerequisites: OE 203 and Pass in NCEA Level 2

Credits 20

Cost \$450.00 (Equipment Donation)

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91504 | Analyse issues in safety management for outdoor activity to devise safety management strategies | 3 | Internal |
| AS91505 | Examine contemporary leadership principles applied in physical activity Contexts | 4 | Internal |
| AS90828 | Evaluate a planned personal action that contributes toward a sustainable future | 6 | Internal |
| AS91411 | Investigate a socio-scientific issue in an Earth and Space Science context | 4 | Internal |
| US 24663 | Demonstrate leadership while participating in an adventure based learning program | 3 | Internal |

Outdoor Leadership

Level: 3

Code: OL303

Course Information: The focus for this year's course is primarily the development of leadership potential, as well as personal skills, and team skills. This is done through Adventure Based Learning, bushcraft, and rock climbing as supervised leadership of Year 12 Outdoor Education classes.
Students during the outdoor education course will be required to pay a course fee of \$300 to cover most activities and trips.

Prerequisites: Excellence achieved in OE 203 or by interview with T.I.C.

Credits 23

Cost \$300 (Equipment Donation)

| Standard | Title | Credits | Internal/External |
|----------|---------------------------------------------------------------------------------------------------------|---------|-------------------|
| US468 | Assist in facilitation of an adventure based learning programme for the development of the participants | 6 | Internal |
| US474 | Assist in facilitation of high ropes course activities for the development of participants | 6 | Internal |
| US 20146 | Apply concepts of basic risk management as an outdoor recreation leader | 5 | Internal |
| AS 90828 | Evaluate a planned personal action that contributes toward a sustainable future | 6 | Internal |

Physical Education

Level: 1

Code: PE102

Course Information: There is a mixture of topics that include both practical activities and theoretical concepts relating to Physical Education. This is not a recreation course where you have free time playing games. All the practicals have to be applied and related to theoretical write ups. The modules are NCEA internally assessed. A major module exposes students to a variety of physical activities which involve individual and team sports and recreational activities. Total well-being - The social, mental and spiritual value is analysed while you participate in a range of activities. The factors which influence students' enjoyment and continued involvement are evaluated. Another major module investigates how the theoretical concepts of Anatomy, Exercise Physiology and Biomechanics relate to performing skills in a sport like Basketball. How the muscles of your body function or how your heart rate changes. You do not have to be the most capable Basketballer, however you need to have the desire to investigate how understanding the theoretical principles of Biomechanics and Anatomy would help improve your performance. The course also looks at the interrelationships and personal skills involved while playing a sport. This will include leadership, sports management and team development while playing a sport such as Ultimate Frisbee. Finally, your skill acquisition is assessed in different sports such as Australian Football or Kio Rahi - A historical, dynamic running and passing game.

Prerequisites: Evidence of active and reliable participation in Year 10. If a student has shown a history of an erratic and inconsistent effort during Year 10, he will not be allowed to enroll as all internal assessments must be related to practical application. This is not free time or recreation.

Required for: Year 12 Physical Education.

Credits: 21

Cost: \$50 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS90962 | Participate actively in a variety of physical activities and explain factors that influence own participation. Your Total Well-Being is analysed. Reflect on your spiritual, social and mental well-being while you participate. | 5 | Internal |
| AS90963 | Demonstrate understanding of the function of the body as it relates to the performance of physical activity. Evaluate the importance of Biomechanics, Anatomy and Exercise Physiology in improving your performance. | 5 | Internal |
| AS90964 | Demonstrate quality movement in the performance of a physical activity. Australian Rules or Kio Rahi. | 3 | Internal |
| AS90965 | Demonstrate understanding of societal influences on physical activity and the implications for self and others | 4 | Internal |
| AS90966 | Demonstrate interpersonal skills in a group and explain how these skills impact on others. Relate theory aspects to Ultimate Frisbee. | 4 | Internal |

Physical Education

Level: 2

Code: PE 203

Course Information: There is a wide range of Physical Education issues and concepts covered in the course. A large component of the course is how you apply training methods to your personal activity. (Practicals in flexibility, aerobic and strength training) Students need to apply theoretical principles to what they are likely to undertake as a sportsman. The Anatomy and Biomechanical Achievement Standard involves the application of theory concepts to how you improve your performance of a chosen sporting activity. How you apply ways to learn skills (breaking down skills into parts and video analysis) and which sport psychology aspects have an effect on your learning. (Visualisation, self-talk and motivation) Significant sociological issues are investigated, such as why sportsman are tempted to take performance enhancing drugs.

Prerequisites: 14 credits in Level 1 102 PE (including AS 90963 Anatomy and Biomechanics); or 14 credits in Level 1 English or Science if student did not complete Level 1 PE102.

Required for: Level 3 Physical Education

Credits 17

Cost \$50 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS 91328 | Demonstrate understanding of how and why biophysical principles relate to the learning of physical skills. Functional Anatomy, Biomechanical principles, skill learning and sport psychology. <i>"Move to improve"</i> . | 5 | Internal |
| AS 91329 | Demonstrate understanding of the application of biophysical principles to training for physical activity. Apply training methods to your personal programme in Aerobic, Strength and Flexibility work. <i>"Train to gain"</i> . | 4 | Internal |
| AS 91330 | Perform a physical activity in an applied setting. "Turbo Touch". | 4 | Internal |
| AS 91331 | Examine the significance for self, others and society of a sporting event, a physical activity, or a festival. Issues in sport like Performance enhancing drugs. | 4 | Internal |

Physical Education

Level: 3

Code: PE 304

Course Information: In the majority of the modules the student must have the ability to apply theoretical concepts to practical performance. Firstly, students must evaluate physical activity experiences to devise strategies for lifelong well-being. Issues such as what motivates people to continue physical activity or recognise the barriers in continuing an active lifestyle. As students' lives become busy and the reasons for taking part in sports fluctuate, it is interesting to examine the participation rates in various leisure activities and try to influence and persuade others to get involved in a leisure activity.

A major module looks at how the student appraises and improves his performance in a chosen skill. The assessment looks at having the ability to breakdown and analyse their golf swing using a video. You must weigh up those aspects of skill execution that have the greatest bearing on improving your performance. Students will be looking at the issues facing our society.

Such as Health issues like obesity and diabetes to sport match fixing.

Prerequisites: Achievement of 13 Level 2 Physical Education credits or 14 credits in Level 2 English. (This has to be reviewed by the H.O.D. Physical Education.) This is not an applied course.

Credits 19 All internal NCEA credits require written explanations in the assessments.

Cost \$50 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|---------------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91498 | Evaluate physical activity experiences to devise strategies for lifelong well-being | 4 | Internal |
| AS 91499 | Analyse a physical skill performance of self or others. The Golf Five Iron shot. Apply Biomechanics Technique and Anatomy | 3 | Internal |
| AS91502 | Evaluate the effectiveness of a performance improvement programme. Golf Evaluation of improvement programme. | 4 | Internal |
| AS 91502 | Examine a current physical activity event or trend or issue impacting on New Zealand society. The issue of Obesity. | 4 | Internal |
| AS 91501 | Demonstrate performance in a physical activity in applied setting | 4 | Internal |

Physics

Level: 2

Code: PX203

Course Information: Physics nurtures an appreciation for the natural phenomena. Students will investigate motion, energy, light, forces, electricity, magnetism, and radioactivity to understand how the laws of the universe lead to the natural world around us from the inner workings of atoms, through waves on the beach to the intricate dance of planets and beyond.

Prerequisites: From SC102: 12 external credits

Required for: Level 3 Physics (PX304)

Credits: 23

Cost: \$25 (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91168 | Carry out a practical physics investigation that leads to a non-linear mathematical relationship | 4 | Internal |
| AS91170 | Demonstrate understanding of waves | 4 | External |
| AS91171 | Demonstrate understanding of mechanics | 6 | External |
| AS91173 | Demonstrate understanding of electricity and electromagnetism | 6 | External |

Physics

Level: 3

Code: PX304

Course Information: Building on concepts from the L2 Physics course, students will investigate natural phenomena in greater detail. Covering motion, energy, light, forces, electricity, magnetism, and radioactivity, students will become familiar with the laws of the universe and develop their ability to explain events from the inner workings of atoms, through waves on the beach to the intricate dance of planets and beyond.

Prerequisites: 13 credits from PX203, including Merit in either AS 91171 or AS 91173

Credits 19

Cost \$30 (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------|---------|-------------------|
| AS91523 | Demonstrate understanding of wave systems | 4 | External |
| AS91524 | Demonstrate understanding of mechanical systems | 6 | External |
| AS91525 | Demonstrate understanding of Modern Physics | 3 | Internal |
| AS91526 | Demonstrate understanding of electrical systems | 6 | External |

Programming Technology

Level: 1

Code: PT102

Course Information: The Programming Technology course introduces students to a range of programming contexts. Students work on projects that involve programming for websites, game software and electronics. The course is designed to start students on a pathway that can lead to one of the fastest growing career areas.

For more detailed course information, visit the course [website](#)

Prerequisites: At discretion of HOD

Credits 18

Cost \$30 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------|---------|-------------------|
| AS91073 | Implement basic procedures to produce a specified digital media outcome. | 4 | Internal |
| US18739 | Create & use simple command sequences in a computer language | 2 | Internal |
| AS91075 | Construct a plan for a basic computer program for a specified task. | 3 | Internal |
| AS91076 | Construct a basic computer program for a specified task. | 3 | Internal |
| AS91078 | Implement basic interfacing procedures in a specified electronics environment. | 3 | Internal |
| AS91074 | Demonstrate understanding of basic concepts from computer science. | 3 | External |

Programming Technology

Level: 2

Code: PT203

Course Information: The Level Two Programming Technology course builds on students' understandings of programming in a range of contexts. Students work on projects that involve programming for websites, game software and electronics. The course is designed to continue students on a pathway that can lead to one of the fastest growing career areas.

For more detailed course information, visit the course [website](#)

Prerequisites: 14 credits in PT102 including AS91076, or at discretion of HOD

Credits 18

Cost \$30 (Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------------------------|---------|-------------------|
| AS91370 | Implement advanced procedures to produce a specified digital media outcome. | 4 | Internal |
| AS91372 | Construct a plan for an advanced computer program for a specified task. | 3 | Internal |
| AS91373 | Construct an advanced computer program for a specified task. | 3 | Internal |
| AS91378 | Implement procedures for administering a local area network. | 4 | Internal |
| AS91371 | Demonstrate understanding of advanced concepts from computer science. | 4 | External |

Religious Education

Level: 1

Code: RE101

Course Information: This course is an alternative for students to Religious Education 102. Students within this course will be provided with learning and assessment opportunities that suit their learning needs. The course will follow the NCEA prescription but will focus on attaining “Achievement” for Achievement Standards. The Religious Education programme is based on the Understanding Faith resource from the National Centre of Religious Studies (NCRS). The programme covers the Conscience and Morality and Biblical Studies topics. The health topic will focus on drug and alcohol education. The health topic is in line with Catholic Church teachings. The Religious Education course consists of two Achievement Standards which are all internally assessed. Each Achievement Standard is worth six credits. This course will offer 12 credits in total during the year. Students may be put into this course at the discretion of the DRS.

Spirituality: All students will participate in a retreat as part of faith formation and development. It is an expectation for all students to attend the year level retreat.

Please note that topics from Achievement Standards can be subject to change during the course of the academic year at the discretion of the Director of Religious Studies.

Credits 12

Cost Retreat Donation \$25 approx

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------|---------|-------------------|
| AS90816 | 11F: Understanding the Gospel Story | 6 | Internal |
| AS90818 | 11B: Conscience, Morality and Values | 6 | Internal |

Religious Education

Level: 1

Code: RE102

Course Information: The Religious Education programme is based on the Understanding Faith resource from the National Centre of Religious Studies (NCRS). The programme covers church history with particular focus on the Reformation time period, Conscience and Morality and Biblical Studies. The health topic will focus on drug and alcohol education. The health topic is in line with Catholic Church teachings. The Religious Education course consists of three Achievement Standards which are all internally assessed. Each Achievement Standard is worth six credits. The department will offer 18 credits in total during the year.

Spirituality: All students will participate in a retreat as part of faith formation and development. It is an expectation for all students to attend the year level retreat.

Please note that topics from Achievement Standards can be subject to change during the course of the academic year at the discretion of the Director of Religious Studies.

Credits 18

Cost Retreat Donation \$25 approx

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------|---------|-------------------|
| AS90816 | 11F: Understanding the Gospel Story | 6 | Internal |
| AS90817 | 11D: Reformation | 6 | Internal |
| AS90818 | 11B: Conscience, Morality and Values | 6 | Internal |

Religious Education

Level: 2

Code: RE202

Course Information: This course is an alternative for students to Religious Education 203 and is a pathway for the students who did RE101. Students within this course will be provided with learning and assessment opportunities that suit their learning needs. The course will follow the NCEA prescription but will focus on attaining "Achievement" for Achievement Standards. The Religious Education programme is based on the Understanding Faith resource from the National Centre of Religious Studies (NCRS).

The programme covers Religions of the World with reference to Islam and Justice and Peace. Students will also do the The Tots and Toddlers Unit run by Plunket. Health topics will include Sexuality Education which is in line with Catholic Church teachings. The Religious Education course consists of two Achievement Standards which are internally assessed. Each Achievement Standard is worth six credits. The Plunket unit is worth 3 Unit Standard credits. The department will offer 15 credits.

Spirituality: All students will participate in a retreat as part of faith formation and development. It is an expectation for all students to attend the year level retreat.

Please note that topics from Achievement Standards can be subject to change during the course of the academic year at the discretion of the Director of Religious Studies.

Credits 15

Cost Retreat Donation \$30 approx

| Standard | Title | Credits | Internal/External |
|----------|------------------------------------------|---------|-------------------|
| US10021 | Meeting Children's Basic Needs - Plunket | 3 | Internal |
| AS90822 | 12B :Justice and Peace | 6 | Internal |
| AS90823 | 12A: Religions of the world | 6 | Internal |

Religious Education

Level: 2

Code: RE203

Course Information: The Religious Education programme is based on the Understanding Faith resource from the National Centre of Religious Studies (NCRS). The programme covers Religions of the World with reference to Islam, Biblical Studies and Justice and Peace. Sexuality Education is also taught in this year level and is in line with Catholic Church teachings. The Religious Education course consists of three Achievement Standards which are all internally assessed. Each Achievement Standard is worth six credits. The department will offer 18 Achievement Standard credits.

Spirituality: All students will participate in a retreat as part of faith formation and development. It is an expectation for all students to attend the year level retreat.

Please note that topics from Achievement Standards can be subject to change during the course of the academic year at the discretion of the Director of Religious Studies.

Credits 18

Cost Retreat Donation \$30 approx

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------|---------|-------------------|
| AS91724 | 12E: Biblical Studies | 6 | Internal |
| AS90822 | 12B :Justice and Peace | 6 | Internal |
| AS90823 | 12A: Religions of the world | 6 | Internal |

Religious Education

Level: 3

Code: RE304

Course Information: The Religious Education programme is based on the Understanding Faith resource from the National Centre of Religious Studies (NCRS). The programme covers three topics: Current Religious Issues focusing on the topic of Euthanasia and Invitro-Fertilisation, Sects and Cults and Finding Meaning in our World. The health topic incorporates the Leavers Booklet produced by the Careers and Transition Department and goes over skills needed for students the following year, such as life skills. It also re-caps what students covered in health in Year Twelve. The Religious Education course consists of three Achievement Standards which are all internally assessed. Each Achievement Standard is worth six credits. The department will offer 18 credits in total during the year.

Spirituality: All students will participate in a retreat as part of faith formation and development. It is an expectation for all students to attend the year level retreat.

Please note that topics from Achievement Standards can be subject to change during the course of the academic year at the discretion of the Director of Religious Studies.

Credits 18

Cost Retreat Donation \$80 approx

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------|---------|-------------------|
| AS90827 | 13A : Finding Meaning | 6 | Internal |
| AS90826 | 13C: Ethics and Ethical Issues | 6 | Internal |
| AS90825 | 13B : Sects and Cults | 6 | Internal |

Samoan

Level: 1

Code: SA102

Course Information: The senior Samoan classes study the more complicated language and cultural features, skills and experiences ranging from familiar surroundings to unfamiliar and complex contexts. This includes describing family environments, conversing with different people, taking on the role of (matai) chiefs in a village council performing their daily responsibilities. Each time the calibre of the language and cultural expectations increase in difficulty.

Prerequisites: High motivation and effort shown in Year 10 Samoan

Required for: L2 Samoan

Credits 24

Cost \$35 approx (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|---------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS90903 | Demonstrate understanding of a variety of spoken Samoan texts on areas of most immediate relevance. | 5 | External |
| AS90904 | Give a spoken presentation in Samoan that communicates a personal response. | 4 | Internal |
| AS90905 | Interact using spoken Samoan to communicate personal information, ideas and opinions in different situations. | 5 | Internal |
| AS90906 | Demonstrate understanding of a variety of Samoan texts on areas of most immediate relevance. | 5 | External |
| AS90907 | Write a variety of text types in Samoan on areas of most immediate relevance. | 5 | Internal |

Samoan

Level: 2

Code: SA203

Course Information: The senior Samoan classes study the more complicated language and cultural features, skills and experiences ranging from familiar surroundings to unfamiliar and complex contexts. This includes describing family environments, conversing with different people, taking on the role of (matai) chiefs in a village council performing their daily responsibilities. Each time the calibre of the language and cultural expectations increase in difficulty.

Prerequisites: 12 Credits in Level 1 Samoan

Required for: Level 3 Samoan

Credits 24

Cost \$35 approx (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91143 | Demonstrate understanding of a variety of spoken Samoan texts on familiar matters. | 5 | External |
| AS91145 | Give a spoken presentation in Samoan that communicates information, ideas and opinions. | 4 | Internal |
| AS91144 | Interact using spoken Samoan to share information and justify ideas and opinions in different situations. | 5 | Internal |
| AS91146 | Demonstrate understanding of a variety of written and/or visual Samoan texts on familiar matters. | 5 | External |
| AS91147 | Write a variety of text types in Samoan to convey information, ideas and opinions in genuine contexts. | 5 | Internal |

Samoan

Level: 3

Code: SA304

Course Information: The senior Samoan classes study the more complicated language and cultural features, skills and experiences ranging from familiar surroundings to unfamiliar and complex contexts. This includes describing family environments, conversing with different people, taking on the role of (matai) chiefs in a village council performing their daily responsibilities. Each time the calibre of the language and cultural expectations increase in difficulty.

Prerequisites: 12 Credits in Level 2 Samoan

Credits 24

Cost \$35 approx (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91563 | Demonstrate understanding of a variety of extended spoken Samoan texts. | 5 | External |
| AS91564 | Give a clear spoken presentation in Samoan that communicates | 3 | Internal |
| AS91565 | Interact clearly using spoken Samoan to explore and justify varied ideas and perspectives in different situations. | 6 | Internal |
| AS91566 | Demonstrate understanding of a variety of extended written and/or visual Samoan texts. | 5 | External |
| AS91567 | Write a variety of text types in clear Samoan to explore and justify varied ideas and perspectives. | 5 | Internal |

Science

Level: 1

Code: SC101

Course Information: Science 101 teaches you about the biological, chemical, and physical world around you. You learn to explore these by scientific investigations, creative problem solving and communication. Science 101 offers an alternative pathway to the 102 course and is suited for those with a passion for Science, who may intend to pursue a vocation that requires some Science credits. Students seeking University Entrance should select Science 102. The standards offered in this Science course are reviewed each year. All standards will be internally assessed.

Prerequisites: Recommendation from year 10 Science teacher.

Required for: Science 202.
Science 101 students can also elect to sit an external Science Achievement Standard and, on attaining Merit or higher, are granted entry into the corresponding L2 Biology/Chemistry/Physics course.

Credits The standards listed below are indications of intent and the number of standards and standards offered may change.

Cost \$25 (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|------------------------------------------------------------------------------------------|---------|-------------------|
| AS90946 | Investigate the implications of the properties of metals for their use in society | 4 | Internal |
| AS90950 | Investigate biological ideas relating to interactions between humans and micro-organisms | 4 | Internal |
| AS90930 | Carry out a practical chemistry investigation, with direction | 4 | Internal |
| AS90925 | Carry out a practical investigation in a biological context, with direction | 4 | Internal |
| AS90955 | Investigate an astronomical or Earth science event | 4 | Internal |

Science

Level: 1

Code: SC102

Course Information: Science 102 teaches you about the biological, chemical, and physical world around you. Topics include: chemical reactions; motion; genetics; and electricity. You learn to explore these through scientific investigations, creative problem solving and communication.

Prerequisites: Entry is based on the results of Year 10 Science assessments and the advice of the subject teacher.

Required for: Biology 203, Chemistry 203, Physics 203

Credits 20

Cost \$25 (Workbook may be purchased)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------------------------|---------|-------------------|
| AS90940 | Demonstrate understanding of aspects of mechanics | 4 | External |
| AS91172 | Demonstrate understanding of atomic and nuclear physics (L2 Standard) | 3 | Internal |
| AS90944 | Demonstrate understanding of aspects of acids and bases | 4 | External |
| AS90947 | Investigate selected chemical reactions | 4 | Internal |
| AS90948 | Demonstrate understanding of biological ideas relating to genetic variation | 4 | External |

Science

Level: 2

Code: SC202

Course Information: Science 202 presents an opportunity for continued exploration of Science. The course covers content from Biology, Chemistry, Physics and Earth and Space Science and gives students a range of experiences of different types of applications of Science. It also providing Science credits important for entry into a range of career paths including plumbing, electrical, and armed services

Prerequisites: Entry is based on the results of Year 11 Science assessments and the advice of the subject teacher.

Credits 16

Cost \$25 (Workbook may be purchased)

Standards listed here are only intended as an indication of what may be offered.

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------------|---------|-------------------|
| AS91190 | Investigate how organisms survive in an extreme environment | 4 | Internal |
| AS91169 | Demonstrate understanding of Physics relevant to a selected context | 3 | Internal |
| AS91163 | Demonstrate understanding of the Chemistry used in the development of a current technology | 3 | Internal |
| AS91162 | Carry out procedures to identify ions present in solution | 3 | Internal |
| AS91160 | Investigate biological material at the microscopic level | 3 | Internal |

Science

Level: 3

Code: SC303

Course Information: Science 303 presents an opportunity for continued exploration of Science, and covers Biology, Chemistry, Physics and Earth and Space Science. All assessments are Achievement Standards and count towards University Entrance Science.

Prerequisites: 10 credits from any L2 Science course

Credits 14-18

Cost \$25 (Workbook may be purchased)

Standards listed here are only intended as an indication of what may be offered.

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------|---------|-------------------|
| AS91191 | Investigate geological processes in a New Zealand locality | 4 | Internal |
| AS91413 | Demonstrate understanding of processes in the ocean system | 4 | Internal |
| AS91601 | Carry out a practical investigation in a biological context, with guidance | 4 | Internal |
| AS91522 | Demonstrate understanding of the application of physics to a selected context | 3 | Internal |
| AS91389 | Demonstrate understanding of chemical processes in the world around us | 3 | Internal |
| AS91388 | Demonstrate understanding of spectroscopic data in chemistry | 3 | Internal |

Statistics & Modelling

| | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Level: | 3 |
| Code: | MS304 |
| Course Information: | This course continues the earlier study of Statistics, and is designed to improve student abilities to deal with simple modeling. It aims to develop student's awareness of the practical application of Statistics, and to reinforce and extend basic algebraic skills. The ability to handle data is an essential skill in today's world, so this course is useful and suitable for most students advancing to any form of tertiary study. |
| Prerequisites: | A passing grade in Achievement Standard 91267 and a further 8 credits from MS203. |
| Credits | 19 (15 Internal, 4 External) |
| Cost | \$110.00 approx for graphics calculator. (Workbooks will be required. These may be purchased through the department, cost to be advised by the teacher) |

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------|---------|-------------------|
| AS91587 | Apply systems of simultaneous equations in solving problems | 3 | Internal |
| AS91582 | Use statistical methods to make a formal inference | 4 | Internal |
| AS91585 | Apply probability concepts in solving problems | 4 | External |
| AS91581 | Investigate bivariate measurement data | 4 | Internal |
| AS91580 | Investigate time series data | 4 | Internal |
| AS91574 | Apply linear programming methods in solving problems (Extension Unit) | 3 | Internal |

Te Reo Maori

Level: 1

Code: MI 102

Course Information: In this course you learn:

1. to write clearly in Maori in a variety of forms, to convey your thoughts accurately on a number of topics
2. to use sentence patterns and vocabulary accurately up to level 6 of the curriculum.
3. to speak Maori with accurate pronunciation and intonation.
4. to read Maori for meaning and understanding.
5. to listen and understand spoken Maori.

You will also continue to learn and develop your knowledge in tikanga Maori and participate in cultural practices to enhance your learning in Te Reo Maori.

Prerequisites: Year 10 Te Reo Maori or assessment of language skills by the teacher.

Required for: Year 12 & 13 Maori.

Credits: 24

Cost: \$100 Noho Marae Visit

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------|---------|-------------------|
| AS91085 | Whakarongo i te reo o tōna ao mōhio | 6 | Internal |
| AS91086 | Kōrero i te reo o tōna ao mōhio | 6 | Internal |
| AS91087 | Pānui i te reo o tōna ao mōhio | 6 | External |
| AS91088 | Tuhituhi i te reo o tōna ao mōhio | 6 | External |

Te Reo Maori

Level: 2

Code: MI203

Course Information: This course extends written, spoken, listening and reading skills acquired from NCEA Level 1 Te Reo Maori, and aims to extend knowledge and understanding of the Maori world. You will continue to develop your knowledge in Te Reo Maori by participating and practising a number of tikanga to enhance your learning. The course covers topics such as Hui Maori, Hakinakina Purakau and Nga Kaupapa Rangatahi.

Prerequisites: 12 credits from Level 1 Te Reo Maori. 6 Internal and 6 External

Required for: Year 13 Maori.

Credits 28

Cost \$100 (Noho Marae Visit)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------|---------|-------------------|
| AS91284 | Whakarongo i te reo o tōna ao mōhio | 4 | Internal |
| AS91285 | Kōrero i te reo o tōna ao mōhio | 6 | Internal |
| AS91286 | Pānui kia mōhio ki te reo o te ao torotoro | 6 | External |
| AS91287 | Tuhituhi i te reo o tōna ao mōhio | 6 | External |
| AS91288 | Hanga Tuhinga i roto i te reo o tona ao mohio | 6 | Internal |

Te Reo Maori

Level: 3

Code: MI304

Course Information: This course aims at developing listening, reading, writing, and speaking skills in Te Reo Maori. It also aims to extend the students understanding of, and sensitivity to, Nga Tikanga Maori (Maori culture) and Te Ao Maori (the Maori world). The course covers topics such as, kawa, waiata tawhito me nga take Maori i roto i te ao hurihuri. You will gain a deeper understanding and appreciation of tikanga and Te Reo Maori. You will also be able to participate in a variety of aspects of Te Ao Maori such as whaikorero, waiata, kapa haka and manu korero.

Prerequisites: 12 credits from Level 2 Te Reo Maori. 6 Internal and 6 External

Credits 28

Cost \$100 (Noho Marae Visit)

Career Links Interpreter, Teacher, Policy Analyst, Diplomat, Researcher, Journalism and Tourism.

| Standard | Title | Credits | Internal/External |
|----------|----------------------------------------------------------|---------|-------------------|
| AS91650 | Whakarongo kia mōhio ki te reo o te ao whānui | 4 | Internal |
| AS91651 | Kōrero kia whakamahi i te reo o te ao whānui | 6 | Internal |
| AS91652 | Pānui kia mōhio ki te reo Māori i te ao whānui | 6 | External |
| AS91653 | Tuhituhi i te reo o te ao whānui | 6 | External |
| AS91654 | Waihanga Tuhinga whai take i te reo Māori o te ao whānui | 6 | Internal |

Technology - Engineering

Level: 1

Code: TN102

Course Information: The Technology 102 course involves students building a slot car to specifications, for use on the College racetrack. They manipulate materials including metal and plastics, involving a range of equipment and processes. The second project involves prototype development, as students develop a refined chassis and body for their slot car. There is a significant degree of skills development and equipment knowledge learned within the project context. Students are challenged to increase their problem solving skills and produce an outcome they can be proud of. There is an emphasis on written documentation throughout the process. Literacy skills and self management are important for success. A written report demonstrating understanding of how materials enable technological products to function is submitted at the end of the year for external assessment.

For more detailed course information, visit the course [website](#)

Prerequisites: None, but good grades in Year 10 Technology are preferred

Required for: Technology 203 and 304

Credits 16

Cost \$80 (Equipment and Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|--------------------------------------------------------------------------------------|---------|-------------------|
| AS91057 | Implement basic procedures using resistant materials to make a specified product | 6 | Internal |
| AS91047 | Undertake development to make a prototype to address a brief | 6 | Internal |
| AS91049 | Demonstrate understanding of how materials enable technological products to function | 4 | External |

Technology - Engineering

Level: 2

Code: TN203

Course Information: The Technology 203 course builds on the Level 1 course, as students develop their skills in materials manipulation. Students design and fabricate a foam and resin model boat hull, and design and fit a rudder mechanism. Extension work involves integrating remote control components to enhance the model. Students use ongoing planning and evaluation as they develop the prototype. Stakeholder consultation, research and investigation inform the student's work. Skills and equipment knowledge are developed within the project context. Students are challenged to solve problems as they arise. Creativity and innovation are encouraged in a supportive environment. There is a major emphasis on written documentation throughout the process. Literacy skills and self-management are important for success. A written report demonstrating understanding of the role of material evaluation in product development is submitted at the end of the year for external assessment.

For more detailed course information, visit the course [website](#)

Prerequisites: 16 credits in Level 1 Technology or at discretion of HOD

Required for: Technology 304

Credits 20

Cost \$95 (Equipment and Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|-------------------------------------------------------------------------------------|---------|-------------------|
| AS91356 | Develop a conceptual design for an outcome | 6 | Internal |
| AS91355 | Select and use planning tools to manage the development of an outcome | 4 | Internal |
| AS91357 | Undertake effective development to make and trial a prototype | 6 | Internal |
| AS91359 | Demonstrate understanding of the role of material evaluation in product development | 4 | External |

Technology - Robotics Engineering

Level: 3

Code: TN304

Course Information: The Technology 304 course builds on the Level 2 course. It is also involves considerable programming, so is a suitable progressing for Level 2 Programming Technology students. Students are extended further, both in practical skills and critical thinking. At this level the student will need to have a high level of motivation and self management in order to succeed. Robotics involves electronics, mechanisms and programming, designed and built 'from the ground up'. Creativity and innovation are encouraged and the student will face a number of challenges along the way. Critical aspects include project management, consultation with stakeholders, ongoing evaluation, and responsive planning that takes into account the many variables and fluid nature of technological practice. There is an emphasis on critical thinking within written documentation throughout the process.

For more detailed course information, visit the course [website](#)

Prerequisites: 16 credits in Level 2 Technology or at discretion of HOD

Credits 20

Cost \$100 (Equipment and Materials Donation)

| Standard | Title | Credits | Internal/External |
|----------|-----------------------------------------------------------------------------------------------------------------|---------|-------------------|
| AS91610 | Develop a conceptual design considering fitness for purpose in the broadest sense. | 6 | Internal |
| AS91609 | Undertake project management to support technological practice. | 4 | Internal |
| AS91611 | Develop a prototype considering fitness for purpose in the broadest sense. | 6 | Internal |
| AS91612 | Demonstrate understanding of how technological modelling supports technological development and implementation. | 4 | External |

Travel and Tourism

Level: 3

Code: TO303 (**This subject is NOT an approved UE course of study**)

Course Information: Students will have an opportunity to gain a New Zealand Certificate in Tourism (Level 3) with strands in Visitor Experience, Tourism and Travel, and Aviation. This course will allow students to demonstrate customer service and communication skills. Travel and Tourism will enable students to demonstrate general knowledge of information that would assist travellers visiting New Zealand, Australia and the Pacific Islands and be able to demonstrate knowledge of products available. The qualification also recognises the skills involved in using the English language, and mathematics in the context of the tourism and travel industry.

Prerequisites: Entry into TO303 requires at least 45 credits in NCEA Level 2, or at least 16 credits in the National Certificate of Tourism Level 2. Students must be studying **up to two** other 303 course as a part of their other subject combinations, **and be accepted into the Gateway and Transition programme.**

Credits Up to 24 credits - more credits are available for those who are committed and well organised.

Additional Course Costs: **The fees for the Unit Standards are for the student manuals and will be approximately \$180*.(Materials Donation)**

*These figures are based on 2017 figures and are subject to change

| Qualification outcomes | | Conditions |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Implement basic customer service skills, applying appropriate communication, literacy and numeracy skills, to enhance the visitor experience Level 3, Credit 20 | Suggested standards: <i>23759 Provide customer service experiences in a tourism workplace</i> Level 3 Credit 10 <i>18226 Demonstrate cross-cultural communication for the tourism and travel industry</i> Level 3 Credit 3 <i>23769 Demonstrate knowledge of the sales function within a tourism workplace</i> Level 3 Credit 3 <i>17384 List and use a range of te reo Māori greetings and farewells in tourism</i> Level 3 Credit 3 |
| 2 | Apply workplace practices required of an aviation, tourism or travel workplace including: teamwork, timeliness, and compliance with relevant Acts and health and safety legislation Level 3, Credit 10 | Suggested standards: <i>25352 Demonstrate and apply knowledge of environmental responsibility in a tourism workplace</i> Level 3 Credit 4 <i>23768 Describe the legal rights and responsibilities of employees and employers in a tourism workplace</i> Level 3 Credit 5 <i>18227 Demonstrate knowledge of support mechanisms for customers with specific needs</i> Level 3 Credit 2 |

Various credits are available in the following strands that are designed to allow students to customize their learning experience. The strands are: Visitor Experience strand, Tourism and Travel strand, and Aviation strand