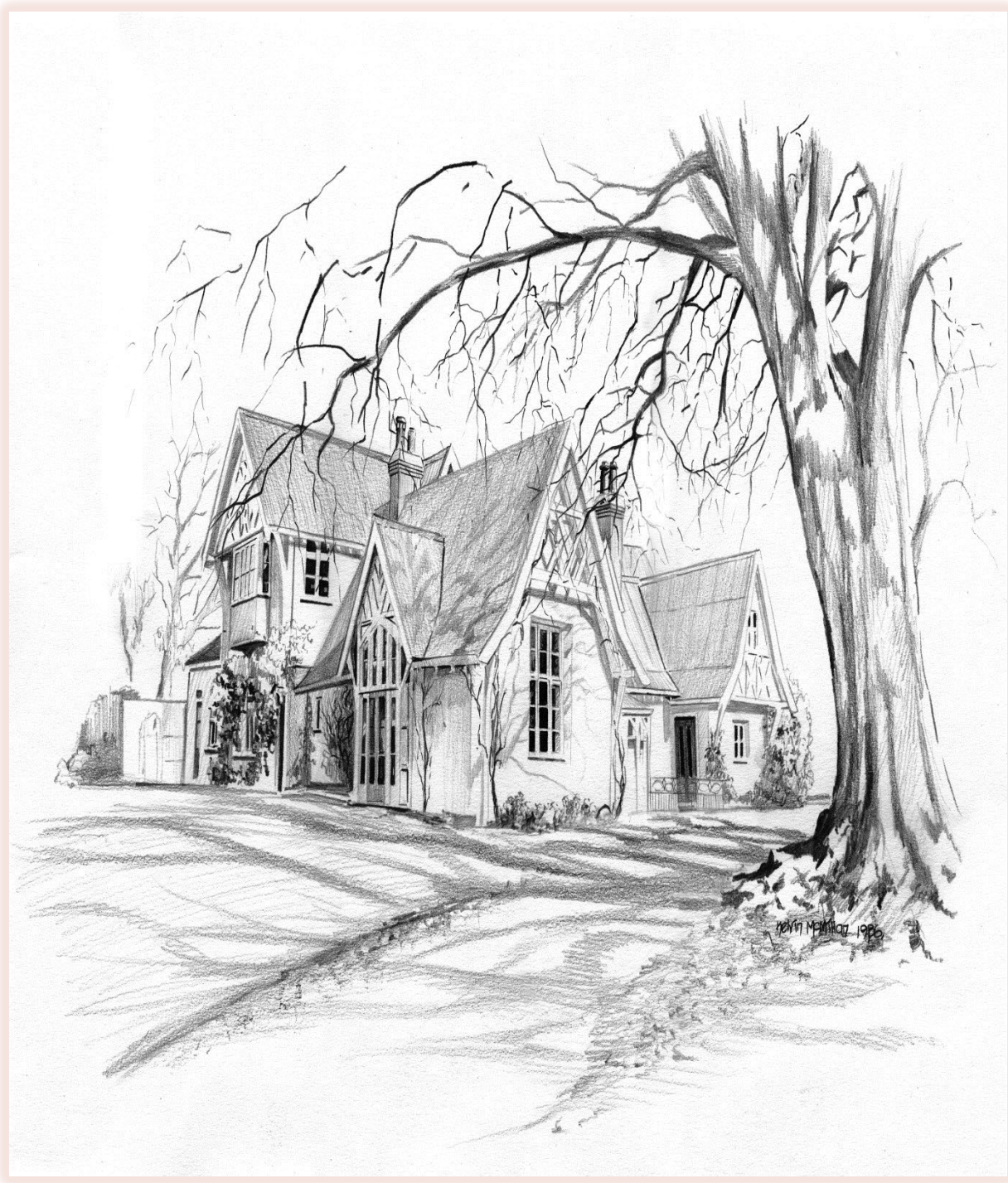


MIDDLETON GRANGE SCHOOL



YEAR 13 COURSE BOOK 2025

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Introduction

This document is designed to help you plan your courses in the Senior College wisely and strategically. All the information you need is contained in this document or the links within. Your choices will determine our option structures, so we ask you to consider your selection carefully.

Note: Courses offered will depend on sufficient student demand.

Choosing Courses

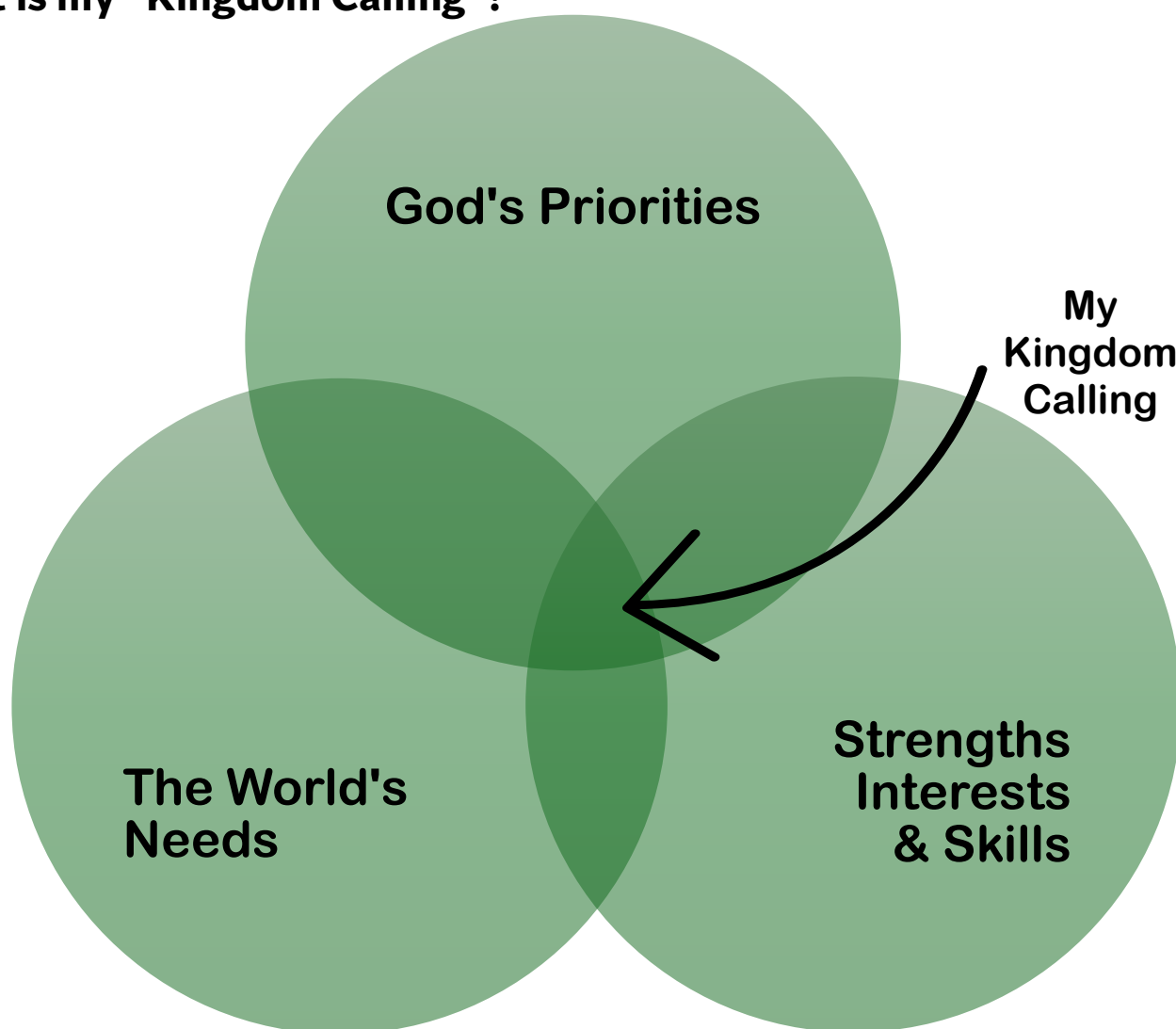
Your education at Middleton Grange involves much more than what you learn during class time. There are many areas in which you might be involved, including sport, music, drama, service, and social situations. Nevertheless, your choice of courses is of profound importance.

It is vital to choose courses which will give you a satisfying and successful year, and one which will prepare you well for the years ahead. Investigate the careers areas you might wish to enter. Check courses and grades required to enter tertiary education. Keep current with developments in chosen careers areas.

God is interested in you and the courses you choose, even though at times it may not be easy to have clear understanding of His direction for you. The Bible has some useful verses which relate to all this, one of which being:

"Commit everything you do to the Lord. Trust him, and he will help you." Psalm 37:5

What is my "Kingdom Calling"?



Middleton Grange School

2025



Course Subject Overview

	Year 11	Year 12	Year 13
Compulsory Subjects →	Christian Studies English - OR - English A Mathematics Science	Christian Studies English - OR - English A	Christian Focus Days
Options →	Choose 3	Choose 4 or 5	Choose 5 or 6
	<p>Social Sciences: Commerce Classical Studies Geography History</p> <p>Physical Education: Physical Education</p> <p>Drama: Drama</p> <p>Music: Music Contemporary Music</p> <p>Visual Art: Art</p> <p>Learning Languages: Spanish Te Reo Māori</p> <p>Technology: Design & Visual Technology Food and Nutrition Workshop Technology</p> <p><i>Digital Technology:</i> Computer Science & Programming Media Skills for Employment & Education</p> <p>English - choose ONE of: English Communication English General (co-ed) English General (girls) English General (boys) English Literature English A</p> <p>Mathematics: (students will be placed into the appropriate course)</p>	<p>English: English English A Media Studies Akoranga Tumu Senior Numeracy</p> <p>Mathematics: Biology Chemistry Physics</p> <p>Science: Accounting Business Studies Economics Classical Studies Geography History Pasifika Studies</p> <p>Social Sciences: Physical Education Technology: Design & Visual Technology Food and Nutrition Workshop Technology <i>Digital Technology:</i> Computer Science & Programming Media Skills for Employment & Education</p> <p>Physical Education: Spanish Te Reo Māori Drama: Drama Music: Music Visual Art: Design Painting Photography Introduction to Education & Teaching Alternative Pathways to Qualifications: Tourism & Hospitality</p> <p>English - choose ONE of: English Communication English General (co-ed) English General (girls) English General (boys) English Literature English A</p>	<p>English: English English A Media Studies</p> <p>Mathematics: Calculus Statistics Mathematics & Statistics Senior Numeracy</p> <p>Science: Biology Chemistry Physics</p> <p>Social Sciences: Accounting Business Studies Economics Classical Studies Geography History Pasifika Studies</p> <p>Physical Education: Physical Education Technology: Design & Visual Technology Food and Nutrition Workshop Technology <i>Digital Technology:</i> Computer Science & Programming Media Skills for Employment & Education</p> <p>Learning Languages: Spanish Te Reo Māori Drama: Drama Music: Music Visual Art: Design Painting Photography Introduction to Education & Teaching Alternative Pathways to Qualifications: Tourism & Hospitality</p>

Please submit your option choices by **Friday 20th September** using the [Kamar web portal](#).

Login details have been emailed to parents/caregivers, not students.

OR If you are leaving MGS, please complete [this form](#) instead of option choices.

In December course confirmation will be sent out by email to parents.

If you did not get these choices by email, we have not got your current email address – please update us!

Who's Who in 2025?

Senior Leadership Team



Mr Mike Vannoort
Principal/Tumuaki
mike.vannoort@middleton.school.nz



Mr Craig Utting
Associate Principal
c.utting@middleton.school.nz



Mrs Jenny Addison
Deputy Principal
Staffing & Waiora
j.addison@middleton.school.nz



Mr Dean McKenzie
Deputy Principal
School Management
d.mckenzie@middleton.school.nz



Mrs Christine Buckley
Deputy Principal
Head of Primary School
c.buckley@middleton.school.nz



Mr Tony Kendrew
Deputy Principal
Head of Middle School
t.kendrew@middleton.school.nz



Mr Shane McConnell
Deputy Principal
Head of Senior College
s.mcconnell@middleton.school.nz



Mrs Colleen Steyn
Director
International College
c.steyn@middleton.school.nz

Assistant Heads of School

Mr Simon Bisseker
Mrs Louise Arndt
TBC

Middle School
Senior College
Senior College

s.bisseker@middleton.school.nz
l.arndt@middleton.school.nz

Deans

Year 11 girls
Year 11 boys
Year 12 girls
Year 12 boys
Year 13 girls
Year 13 boys
International College

TBC
TBC
Mrs Yvette Hodge
Mr Chris Murray
Miss Ashley Wallace
Mr Isaac Stanton
Mr David Farmer

y.hodge@middleton.school.nz
c.murray@middleton.school.nz
a.wallace@middleton.school.nz
i.stanton@middleton.school.nz
david.farmer@middleton.school.nz

Tertiary & Vocational Guidance: Mrs Nicole Bailey

n.bailey@middleton.school.nz

Heads of Faculties

Scripture/Christian Studies	Mr Peter Collier	p.collier@middleton.school.nz
English	Mr Scott Aitken	s.aitken@middleton.school.nz
Mathematics and Statistics	Miss Ashley Wallace	a.wallace@middleton.school.nz
Science	Mr James Harris	j.harris@middleton.school.nz
Social Sciences	Mrs Dale James	d.james@middleton.school.nz
Physical Education & Health	Mr Andrew O'Neill	a.oneill@middleton.school.nz
Technology	Mr Patrick Baker	p.baker@middleton.school.nz
Learning Languages	Mrs Angela Paley	a.paley@middleton.school.nz
Scripture/Christian Studies	Mr Peter Collier	p.collier@middleton.school.nz
English	Mr Scott Aitken	s.aitken@middleton.school.nz

Curriculum Leaders & Teachers in Charge

Drama	Mr Michael McCormack	m.mccormack@middleton.school.nz
ESOL	Mrs Gaylene Anderson	g.anderson@middleton.school.nz
IET	Mrs Nicole Bailey	n.bailey@middleton.school.nz
Learning Support	Mrs Kathy McAuley	k.mcauley@middleton.school.nz
Music	Mr Simon Bissek	s.bisseker@middleton.school.nz
Pasifika	Mrs Nicole Bailey	n.bailey@middleton.school.nz
Principal's Nominee	Mrs Janet E Dixon	j.dixon@middleton.school.nz
SMS & Data Manager	Mr Martin de Ruiter	m.deruiter@middleton.school.nz
Tourism & Hospitality	Mrs Nicole Bailey	n.bailey@middleton.school.nz
Visual Art	Ms Kirsten Anderson	k.anderson@middleton.school.nz
Vocational Pathways	Mrs Nicole Bailey	n.bailey@middleton.school.nz

Support Staff

Student Services	Mrs Carole Thomson	c.thomson@middleton.school.nz
Student Services	Mrs Vanessa Manning	v.manning@middleton.school.nz
Reception	Mrs Donna Wilson	d.wilson@middleton.school.nz
Attendance Officer	Mrs Anna McConchie	a.mcconchie@middleton.school.nz
EA to the Principal/Tumuaki	Mrs Hillary Carley	h.carley@middleton.school.nz
Office Administrator	Mrs Melissa Broughton	m.broughton@middleton.school.nz
Libraries Manager	Miss Becky Howie	b.howie@middleton.school.nz
Waiora & Counselling	Mrs Wendy Bowen Graham	w.bowengraham@middleton.school.nz
Waiora & Counselling	Mrs Anne Aiken	a.aiken@middleton.school.nz
Waiora & Counselling	Mrs Jacky Smith	j.smith1@middleton.school.nz
Business Manager	Mr Paul Hartstonge	p.hartstonge@middleton.school.nz
Property Manager	Mr Ben Knowles	b.knowles@middleton.school.nz
Finance & Payroll	Mrs Libby Davis	l.davis@middleton.school.nz
Finance Assistant	Mrs Hannelie Viljoen	h.viljoen@middleton.school.nz
Uniform Shop	Mrs Lauren Cleaver	uniform@middleton.school.nz
Director of Sport	Mr Sam Tang	sport@middleton.school.nz
Performing Arts	Mrs Rhian Horn	venuehire@middleton.school.nz
Co-ordinator/Venue Hire		

International College

Assistant Director	Mr David Farmer	david.farmer@middleton.school.nz
Administration Manager	Mrs Yolandy Stander	yolandy.stander@middleton.school.nz
Student/Homestay		
Co-ordinator	Ms Jana de Jongh	j.dejongh@middleton.school.nz

Course Subject Charges

To ensure we continue delivering the high-quality education that our students and staff value, we rely on a combination of parent Special Character Voluntary Donations, school fundraising efforts, and the International College programme. Unfortunately, the State funding alone does not cover the full cost of our curriculum and programs.

The school has made every effort to avoid imposing general subject charges as part of the core curriculum. Students will have the opportunity to excel using the resources provided by the school. * However, to enhance the range of activities, projects, and experiences available, there are likely to be additional costs associated with some optional subjects and extracurricular activities. You will be emailed a link with [required stationery](#) later in Term 4.

Permission for these optional activities must be obtained in advance and costs may be charged to your child's school account, or in some cases, payment must be made before the event. If you agree to these activities, any charges may be enforced by our finance department to honour our own agreements.

Please review our updated [terms and conditions](#) to avoid unnecessary charges.

Your generous donations play a crucial role in helping us maintain the standard of education our school is known for. We sincerely encourage you to contribute to this fund, via any suggested contributions or donations, as it directly benefits your child, enriching and enhancing their learning experience. Participation in any optional activities is therefore encouraged, but no student will be academically disadvantaged for choosing not to participate.

Thank you for your continued support and commitment to our school community.

* Faculty Leaders have identified the minimum amount of photocopying required by a student to achieve excellence in their subjects. This photocopying credit will be given to students on a 'Photocopy Account'. If students exceed this amount, then the student and family must pay for further printing.

Helpful Information for selecting courses

- All advanced scientific and technical occupations require Mathematics to NCEA Level 3. You need to continue with Mathematics if you are interested in careers such as Accountancy, Physical Education, Psychology, Medicine, Consumer Science, Health and Physical Sciences.
- If you want to keep a scientific, engineering, many technical or medical careers open as a possibility, you should take Mathematics, Chemistry and Physics.
- Most Science careers require Biology with Chemistry or Physics with Chemistry.
- If you are *definitely* not interested in any of the above careers, you should consider breadth of option choice to keep doors open. The inclusion of Mathematics in your course increases the range of career opportunities which may be open to you.
- If you are not sure what you wish to do, Mathematics with two/three Science subjects plus a language-rich subject will open entry into *most* university courses.
- Attaining high standards in English and communication skills is essential for some career areas and is useful for all.
- Students heading in the direction of medical sciences need to remember that an arts course is required.
- If your career interest requires a specific course such as Art, Music, a language, etc then this must be included in your option choices.

The National Certificate of Educational Achievement (NCEA)

[Document for Parents and Students](#) with framework etc.

Entry to University

Due to the complexity of establishing a consistent standard for entry to a NZ University it is important that all students are aware of the entry criteria. It may impact on the units of study you choose to include in your course at Level 3.

For NZ Permanent Residents and Citizens

NCEA Level 3 is required for entry into university. This must include at least 14 credits in each of 3 approved subjects and the literacy and numeracy requirements.

IMPORTANT:

Courses not on the Approved Subjects list at Level 3 will be identified by a hash key (#) beside the course title.

Alternative Entry Pathway

For students who do not achieve entry to university in Year 13, University of Canterbury has a Certificate of University Preparation. Other universities also offer this entry method.

In addition to gaining a university entrance qualification, students need to meet specific criteria. A rank score has been introduced to raise the bar and this is different for each faculty/programme. This is called **GES (Guaranteed Entry Score) or RES (Rank Entry Score)** and is used in some courses, in some universities.

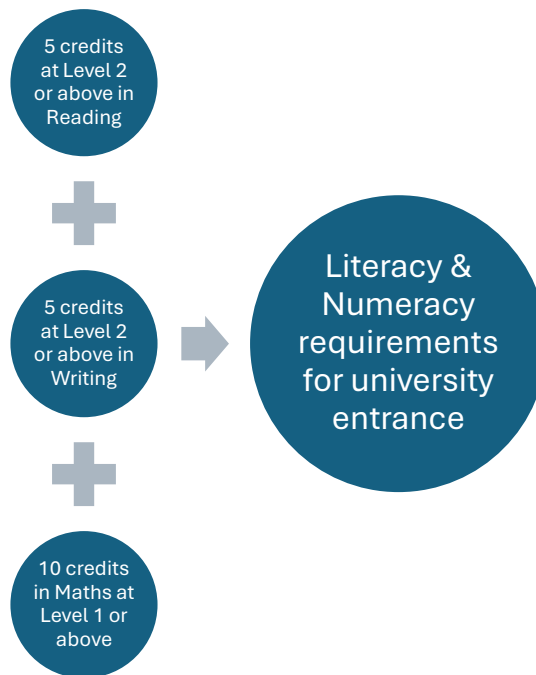
Your Guaranteed Entry Score (GES) is based on your best 80 credits at Level 3.

Excellence = 4, Merit = 3 and Achieved = 2. Unit standards = 2 points

When making subject choices – a minimum of four UE approved subjects is strongly recommended.

If in doubt, check with Mrs Bailey on an individual basis to see if your situation meets the requirements to enter a chosen university.

Please note: The benchmark is changing all the time and is different for each university. Consult their website for further details.



Important information for students entering Year 13

Please note the following:

- Universities have limited entry to some courses. Therefore, even if you have met the minimum requirements, you may not have entry to the courses you wish to take.
- Some programmes, for example fine arts and music, have additional requirements, like an audition, interview or portfolio of work.
- Some commerce, medicine and engineering courses have additional academic requirements.
- IELTS cannot be used for University Entrance. If you have studied at a New Zealand School, you must use NCEA University Entrance minimum literacy.
- International students are required to have at least the same qualifications as a New Zealand born or Native English-speaking student.
- Some courses may require more credits for students for whom English is their second language.
- Te Pūkenga and other colleges, and some private providers also offer Diploma and Degree courses, and you need to be aware of their entry requirements.
- Check with the careers staff or appropriate Head of Faculty which subjects you should take in Year 13 for further study.

MOST IMPORTANT:

- **You need to check *EARLY* in the year the entry requirements for the course and institution you wish to attend. These are constantly changing at all tertiary institutions.**
- **Do NOT wait until November – you may miss out!**
- **Attend the career information visits and speakers.**
- **See the teacher in charge of Tertiary and Vocational Coordinator.**

Helpful Careers Advice

- Mrs Bailey, the **Tertiary and Vocational Coordinator** at school – n.bailey@middleton.school.nz
- [Middleton CareerWise](#) for all up to date careers news, jobs, scholarships apprenticeship opportunities, links to all the major New Zealand Tertiary Institutions and careers sites such as [UC Careers](#), [Just the Job](#) and [Money Hub](#)
- [Careers NZ](#) for an extensive jobs database and great tools to help you discover your best career option.
- The Course Selection and Mini Careers Expo in Term 3 in the school gym.
- The tertiary liaisons who visit the school in Terms 1 and 3.
- Computer Programmes are available in the school library to provide information (and a printout if desired) on various careers, necessary tertiary courses of study, and the institutions that provide such courses.

New Zealand Scholarship

Scholarship is a monetary award that recognises top students. It does not attract credits, nor does it contribute towards a qualification; but the fact that a student has gained a Scholarship will appear on the Record of Learning.

The assessment for New Zealand Scholarship is standards based (but not using achievement or unit standards) and all assessments are external.

Scholarship is awarded to the best students in each of the 33 Scholarship subjects.

Scholarship enables students to be assessed against challenging standards and is demanding for the most able students in each subject.

A student who achieves scholarship will have demonstrated, within complex situations, higher level critical thinking, abstraction and generalisation and the ability to integrate, synthesise and apply knowledge, skills, understanding and ideas.

Depending on the area of study, a student will display a range of:

- Comprehensive content knowledge (breadth and depth)
- Effective communication
- Original or sophisticated solutions, performances, or approaches
- Critical evaluation
- Flexible thinking in unfamiliar/unexpected contexts.

If you have achieved numerous standards with excellence throughout your school studies and are doing level 3 standards at school, you may want to be assessed for the New Zealand Scholarship.

Scholarship assessments include content covered across all NCEA levels, so a separate course is not needed. However, individual subjects run a tutorial outside of class time to prepare students for the rigour of Scholarship.

Eligible candidates can deter taking up their monetary rewards for one year. A candidate needs to attain 3 or more Scholarships IN THE SAME YEAR to be eligible for the awards of Scholarship, Outstanding Scholarship, or Premier Scholarship.

Results will show that the Scholarship standard has been achieved (=S).

Assessment and Certification Rules and Procedures for Secondary Schools

The Scholarship Monetary Awards will comprise:

Single Subject Awards	For candidates who get Scholarship in up to two subjects A 'one-off' award of \$500 per subject (maximum payment \$1000)
Top Subject Scholar Award	For candidates who are top in one of the 33 Scholarship subjects \$2,000 each year for up to three years as long as candidates maintain a 'B' grade average in tertiary study
Scholarship Award	For candidates who get Scholarship in three or more subjects \$2,000 each year for up to three years as long as candidates maintain a 'B' grade average in tertiary study
Outstanding Scholar Award	For the top 40-60 candidates. The minimum eligibility requirement to be considered for this award is three Scholarships with at least two at "Outstanding" level or more than three Scholarships with at least one at "Outstanding". The number of recipients for this award is restricted and achieving the minimum requirement will not guarantee an award. \$5,000 each year for three years as long as candidates maintain a 'B' grade average in tertiary study
Premier Award	For the very top 5 to 10 candidates. The minimum eligibility requirement to be considered for this award is at least three Scholarships at "Outstanding" level. The number of recipients for this award is restricted and achieving the minimum requirement will not guarantee an award. \$10,000 each year for up to three years if candidates maintain at least a 'B' grade average in tertiary study

Note

Some subjects at Middleton Grange School offer special classes to prepare students for the Scholarship exams. Ask your Head of Faculty what assistance is offered in the subjects you might consider for the Scholarship award. International fee-paying students attending overseas universities are not eligible for the national Scholarship monetary awards. They may enter the examinations and will have their Scholarship success recorded on their Record of Learning.

English

There are two English courses at Level 3. English Head of Faculty (Mr Scott Aitken) and Assistant Head of Faculty (Mrs Cassie Foster) will be happy to provide guidance if required.

The Teacher in Charge of ESOL (Mrs Gaylene Anderson) is very happy to give guidance to any students who have another first language.

English - (13ENG)

Course Description

The Level 3 course will involve study of a range of literature and possibly film, selected from the best works in the English canon and cinema. Students must respond critically to a wide range of texts. Contact the Head of Faculty Mr Aitken or Assistant Head Mrs Cassie Foster for further information about courses at this level.

Pre-requisites

• At least 14 credits at Level 2, of which 6 credits must have been achieved in AS91101 or by negotiation with Head of Faculty.

		Number of Credits	
		Ext.	Int.
Achievement Standards depending on skills and interests of the class, the course will offer a selection of the standards below:			
91472	Respond critically to specified aspect(s) of studied written text(s), supported by evidence	4	
	OR		
91473	Respond critically to specified aspect(s) of studied visual or oral text(s), supported by evidence	4	
91474	Respond critically to significant aspects of unfamiliar written texts through close reading, supported by evidence	4	
91475	Produce a selection of fluent and coherent writing which develops, sustains, and structures ideas		6
91476	Create and deliver a fluent and coherent oral text which develops, sustains, and structures ideas		3
91478	Respond critically to significant connections across texts, supported by evidence		4
	OR		
91480	Respond critically to significant aspects of visual and/or oral text(s) through close reading, supported by evidence		3
		Total Credits: 20/21	

English A (English Language) 13ENA

Course Description

This course is specifically designed to complete the Level 2 English standards that will give the reading and writing credits required for Minimum Literacy for University Entrance. It also develops important skills for academic study in University.

Pre-requisites

Students must have sufficient achievement in Year 12 in English A. Students who have been in other Year 12 English courses may also be placed in this class if they require more Literacy credits; it is not restricted to English Language Learners

		Number of Credits	
		Ext.	Int.
Achievement Standards and Unit Standards			
91098	Analyse specified aspects of studied written texts, supported by evidence - English Level 2	4	
91099	Analyse specified aspects of studied visual text, supported by evidence - English Level 2.	4	
91105	Use information literacy skills to form developed conclusions.		4
91106	Form developed personal responses to independently read texts, supported by evidence.		4
		Total Credits: 16	

Media Studies (13MDS)

Course Description

Media studies equip students with a broad range of transferable skills that are valuable in many fields. Here's a more detailed look at how these skills translate into various career pathways:

- **Critical Thinking and Analysis:** Essential for evaluating media content, understanding audience responses, and making strategic decisions in roles like media analyst, critic, or marketing strategist.
- **Research and Planning:** Key for roles that require detailed background work and strategic foresight, such as journalism, PR, and media production.
- **Skills of Enquiry and Evaluation:** Useful in positions where assessing the effectiveness of campaigns, content, or media strategies is crucial, including in media consultancy and research roles.
- **Practical Skills:** Involves hands-on experience with media tools and technologies, beneficial for careers in film and video production, digital media, and computer games development.
- **Creativity:** Highly valued in industries like film, television, and digital media, where innovative ideas and approaches are key to engaging audiences and standing out in a competitive market.
- **Time Management:** Critical for meeting deadlines and managing multiple projects, applicable to any fast-paced media environment, including PR and marketing.
- **Essay Writing Skills:** Important for crafting compelling narratives and reports, which are necessary for roles in journalism, writing, and publishing.
- **Career Pathways:**
 - **Media, Cultural, and Creative Industries:** Embrace diverse roles in content creation, media management, and cultural projects.
 - **Television and Radio:** Opportunities in production, presenting, and broadcasting.
 - **Film and Video:** Careers in directing, editing, and screenwriting.
 - **Digital Media:** Involves roles in social media management, digital content creation, and web development.
 - **Computer Games:** Encompasses game design, development, and interactive storytelling.
 - **Journalism:** Includes investigative reporting, feature writing, and multimedia journalism.
 - **Writing and Publishing:** Opportunities in fiction, non-fiction, and editorial roles.
 - **PR and Marketing:** Involves brand management, campaign planning, and audience engagement.
 - **Media Practice:** Covers various roles in media production, content creation, and industry management.

These skills and pathways reflect how media studies can open doors to a wide array of exciting and dynamic careers, leveraging both analytical and creative strengths

Pre-requisites

At least 10 credits in Level 2 English with some English external exam success.

Achievement Standards

		Number of Credits	
		Ext.	Int.
91492	Demonstrate understanding of the media representation of an aspect of New Zealand culture or society		3
91493	Demonstrate understanding of a relationship between a media genre and society.	4	
91494	Produce a design for a media product that meets the requirements of a brief.		4
91495	Produce a media product to meet the requirements of a brief.		6
		Total Credits	17

Mathematics and Statistics

Calculus (13MCX)

Course Description

This course is appropriate for students with an interest in the continued study of Mathematics, the Physical Sciences, Economics, Computer Science, Management Science, Engineering, etc. Students study algebra, calculus, trigonometry and geometry.

Pre-requisites

At least 14 credits from NCEA Level 2 Mathematics Akoranga course, including at least an Achieved grade in each of 91261 (Algebra), 91262 (Calculus) and 91269 (Simultaneous Equations), and at least Merit in one of these three.

Specific Costs A graphics calculator (preferably Casio e.g. fx-9750G plus), is essential for this course.

Achievement Standards

- 91575** Apply trigonometric methods in solving problems.
- 91577** Apply the algebra of complex numbers in solving problems.
- 91578** Apply differentiation methods in solving problems.
- 91579** Apply integration methods in solving problems.
- *91587** Apply systems of simultaneous equations in solving problems.

* Also part of Mathematics & Statistics Course

Scholarship students will also do **91573** Apply the geometry of conic sections in solving problems. (3 credits)

Number of Credits

Ext.	Int.
	4
5	
6	
6	
	3

Total Credits: 24

Statistics (13MST)

Course Description

This course is for students with an interest in Statistics who may want to study in fields such as biological and social sciences, medicine, engineering, actuarial work, management science, commerce and marketing. It involves analysing data and making predictions, using data to draw conclusions and applying probability theory to different contexts.

Pre-requisites

At least 11 credits from NCEA Level 2 Maths Akoranga course including Achieved in 91267 (Probability) or 14 credits from the Level 2 Tumu course, including at least an Achieved grade in 91264 (Statistical Inference) and 91267 (Probability)

Specific Costs

A graphics calculator (preferably Casio e.g. fx-9750G plus), is essential for this course.

Achievement Standards

- *91580** Investigate time series data.
- 91581** Investigate bivariate measurement data.
- 91582** Use statistical methods to make a formal inference.
- 91585** Apply probability concepts in solving problems.
- *91586** Apply probability distributions in solving problems.

* Also part of Mathematics & Statistics Course

Scholarship students may choose to enter the external **AS91584** Evaluate statistically based reports. (4 credits)

Number of Credits

Ext.	Int.
	4
	4
	4
4	
4	

Total Credits: 20

Mathematics and Statistics (13MAS)

Course Description

This course includes a combination of some of the Level 3 Mathematics and the Level 3 Statistics standards. It is designed for students who want to take a Level 3 Maths & Statistics course but do not think that either Calculus or Statistics would be suitable.

This course is a UE approved subject.

Specific Costs

A graphics calculator (preferably Casio e.g. fx-9750G plus), is essential for this course.

Achievement Standards

- 91574** Apply linear programming methods to solve problems.
- ~**91576** Use critical path analysis in solving problems.
- ***91580** Investigate time series data.
- 91583** Conduct an experiment using experiment design principles.
- ^**91587** Apply systems of simultaneous equations in solving problems.
and one of:
- 91584** Evaluate statistically based reports.
- ***91585** Apply probability concepts in solving problems.
- ***91586** Apply probability distributions in solving problems.

* Also part of Statistics Course

^ Also part of Calculus Course

~ Optional Standard

Pre-requisites

At least 11 credits from NCEA Level 2 Maths Akoranga course or 14 credits from the Level 2 Tumu course.

Number of Credits

Ext.	Int.
------	------

	3
--	---

	2
--	---

	4
--	---

	4
--	---

	3
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4	
---	--

4	
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4	
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Total Credits: 18

Mathematics - Senior Numeracy (13MSN)

Course Description

The Senior Numeracy Course will support students to gain their NCEA Numeracy Corequisite (US32406) as well as, where appropriate, work towards some Level 2 Achievement Standards (listed below). This course is compulsory for Year 12 and 13 students without Numeracy (or equivalent). However, exemptions could be granted in exceptional circumstances. These exemptions would be granted by the Head of Faculty and in conjunction with the appropriate Dean, the Learning Centre and International College (if applicable).

Achievement Standards

- 91256** Apply coordinate geometry methods in solving problems.
- 91258** Apply sequences and series in solving problems.
- 91259** Apply trigonometric relationships in solving problems.
- 91260** Apply networks methods in solving problems.
- 91268** Investigate a situation involving elements of chance using a simulation.
- 91264** Use statistical methods to make an inference.

Pre-requisites

Students who are yet to gain their NCEA Numeracy Corequisite.

Specific Costs

- Scientific calculator (fx-82 or similar) **OR**
- A graphics calculator (preferably Casio e.g. fx-9750G plus or similar). These are not compulsory, but can be used for assessments and are essential at Level 2.

Number of Credits

Ext.	Int.
------	------

	2
--	---

	2
--	---

	3
--	---

	2
--	---

	2
--	---

	4
--	---

Total Credits: 15

Science

Biology (13BIO)

Course Description

This course consists of the following units of work:

- Animal and plant practical studies.
- Genetics and evolution.
- Animal behaviour and plant responses.
- Contemporary biological issues.
- Contemporary techniques in biotechnology.

Please note that some details of course may be subject to change should the Head of Faculty consider it to be of educational advantage to students to do so.

Pre-requisites

Minimum of 12 credits in Level 2 Biology with passes in the two external standards:
AS91157 (Genetic variation)
AS91159 (Gene expression)

Specific Costs

A "write-in" workbook \$23.

Achievement Standards will be a selection of:

	Number of Credits	
	Ext.	Int.
91601 Carry out a practical investigation in a biological context, with guidance.		4
91602 Integrate biological knowledge to develop an informed response to a socio-scientific issue.		3
91603 Demonstrate understanding of the response of plants or animals to their external environment	5	
91604 Demonstrate understanding how an animal maintains a stable internal environment.		3
91606 Demonstrate understanding of trends in human evolution.	4	
	Total Credits:	19

Chemistry (13CHE)

Course Description

In their study of chemistry students will extend their scientific knowledge, skills and attitudes through:

- Practical investigations
- Familiarisations with materials and how they function.
- Understanding of concepts underlying chemical behaviour:

Areas of study will involve:

- Aqueous Chemistry
- Thermochemistry
- Organic Chemistry
- Oxidation and Reduction processes and analysis
- Atomic structure and bonding

Please note that some details of course may be subject to change should the Head of Faculty consider it to be of educational advantage to students.

Pre-requisites

Minimum of 14 credits in Level 2 Chemistry

Specific Costs

A "write-in" workbook \$23.

Achievement Standards

	Number of Credits	
	Ext.	Int.
91388 Demonstrate understanding of spectroscopic data in chemistry.		3
91390 Demonstrate understanding of thermochemical principles and the properties of particles and substances.	5	
91391 Demonstrate understanding of the properties of organic compounds.	5	
91392 Demonstrate understanding of equilibrium principles in aqueous systems.	5	
91393 Demonstrate understanding of oxidation-reduction processes.		3
	Total Credits:	21

Physics (13PHY)

Course Description

The Level 3 course gives a good grounding for subjects such as Physics, Medical Sciences and the various Engineering disciplines at university. It is also a useful basis for many technical careers.

The topics covered are:

- Wave systems
- Translational Motion
- Rotational Motion
- Simple Harmonic Motion
- Electromagnetism
- Electricity DC and AC
- Atomic Physics

Pre-requisites

Minimum of 14 credits in Level 2 Physics

Specific Costs

- A "write-in" workbook \$23
- Field trip \$15

Please note that some details of course may be subject to change should the Head of Faculty consider it to be of educational advantage to students.

Achievement Standards will be a selection of:

- 91522** Demonstrate understanding of the application of physics to a selected context.
91524 Demonstrate understanding of mechanical systems.
91525 Demonstrate understanding of Modern Physics.
91526 Demonstrate understanding of electrical systems

Number of Credits

Ext.	Int.
	3
6	
	3
6	

Total Credits: 18

Scholarship students may choose to enter the external **AS91523** *Demonstrate understanding of wave systems.* (4 credits)

Social Sciences

Accounting (13ACT)

Course Description

Level 3 Accounting gives you financial skills in the context of different types of businesses, including companies and manufacturers.

Accounting is an essential skill for numerous careers, including the fields of business, management, the government sector and voluntary community organisations. Accounting is a required component of most business and finance courses at tertiary level.

Y13 Accounting prepares you for study of commerce, accounting, and management of finance at university. It is equally suitable as background knowledge that will almost certainly benefit you, whatever career path you choose. Opportunity is given for students to sit the Scholarship Accounting exam.

Achievement Standards

91404	Demonstrate understanding of accounting concepts for a New Zealand reporting entity.	4	
91405	Demonstrate understanding of accounting for partnerships.		4
90406	Demonstrate understanding of company financial statement preparation.	5	
91408	Demonstrate understanding of management accounting to inform decision making.	4	
91409	Demonstrate understanding of a job cost subsystem for a manufacturing business.		4

Total Credits: 21

Pre-requisites

• Minimum 12 credits from Level 2 Accounting or by approval of Head of Faculty.

Specific Costs: Calculator

Number of Credits

Ext. Int.

Business Studies (13BUS)

Course Description

In this course you will set up and run a real business enterprise with 2-3 other students during the school year. You will also have the opportunity to enter the National Young Enterprise Competition (YES) through which your small business will compete with other student enterprises on business challenges throughout the school year.

Completing the YES challenges will earn you an NCEA Micro-credential.

OR

You could choose to be assessed for the following standards below:

Achievement Standards

91379	Demonstrate understanding of how internal factors interact within a business that operates in a global context.	4	
91382	Develop a marketing plan for a new or existing product		6
91384	Carry out, with consultation, an innovative and sustainable business activity.		9

Total Credits: 19

Specific Costs

• A small amount of seed funding will be needed to start your business activity. The amount will depend on your chosen venture. Hopefully you will be able to recoup this over the course of the year.

• Young Enterprise entry fee approx \$45.00

Number of Credits

Ext. Int.

Classical Studies (13CLS)

Course Description

Classical Studies is a multidisciplinary subject focusing on the cultures of ancient Greece and Rome. Classical Studies is the study of the people, places, and events of the classical world and how they influence the modern world. Much of our art, science, literature, law, philosophy, politics and religion comes from ancient Greece and Rome. Classical Studies investigates the history, lifestyle, mythology, art, religion and literature of Greece and Rome. Emphasis is placed on a comparison of the Classical and Biblical worldviews. The course will develop a range of skills that are transferable to the outside world, such as the ability to think critically, research, express yourself clearly and concisely, analyse and present an argument.

In Year 13 Classical Studies we examine influences exhibited in Roman Art and Architecture and its impact on later cultures. We also look at the life of a fascinating historical figure; Alexander the Great and his ideological beliefs.

Pre-requisites

- At least 12 credits in reading and writing achievement standards in Level 2 English
- Previous study in Classics is strongly recommended. The Head of Faculty must be consulted before entry at this level will be granted to students taking it for the first time.

Achievement Standards

	Ext.	Int.
91395 Analyse the significance of a work(s) of art in the classical world.	4	
91396 Analyse the impact of a significant historical figure on the classical world	6	
91397 Demonstrate understanding of a significant ideology(ies) in the classical world.		6
91398 Demonstrate understanding of the lasting influences of the classical world on other cultures across time.		6

Total Credits: 22

Economics (13ECO)

Course Description

A wide-ranging look at the effects of government policy on the NZ markets. An in-depth look into markets and businesses, understanding what lies behind the market curves used at earlier levels.

Y13 Economics is recommended if you are considering further study of law, commerce, political science or social science. It is equally relevant as a personal insight into how countries' economies and markets work.

Opportunity is given for selected students to sit the Scholarship Economics exam.

Pre-requisites

Minimum 12 credits in Level 2 Economics, or by approval from Head of Faculty.

Specific Costs

Calculator

Achievement Standards

	Ext.	Int.
91399 Demonstrate understanding of the efficiency of market equilibrium	4	
91401 Demonstrate understanding of micro-economic concepts		5
91402 Demonstrate understanding of government interventions to correct market failures		5
91403 Demonstrate understanding of macro-economic influences on the NZ economy.	6	

Total Credits: 20

Geography (13GEO)

Course Description

Level 3 Geography is a demanding subject. It has to be, in order to prepare students adequately to meet the complex challenges facing our world and its people. A high value is placed on literacy skills, and students are expected to conduct some level of independent inquiry in all topics. Skills and knowledge are applied more rigorously within fewer contexts as we prepare students to go out into the world God made and be effective agents of change in the creation He loves. We maintain a global perspective through an investigation of a global pattern, however, many of the topics have a contemporary New Zealand setting. Level 3 Geography also offers the possibility of attempting the Scholarship Standard, details of which will be given once the year is under way.

Achievement Standards

91426	Demonstrate understanding of how interacting natural processes shape a NZ environment.	4	
91429	Select and apply geographic skills and concepts.	4	
91431	Analyse aspects of a contemporary geographic issue.		5
91432	Analyse aspects of a geographic topic at a global scale.		3
	and one of either:		3
91428	Analyse a significant contemporary event from a geographic perspective	OR	3
91430	Conduct geographic research with consultation		5

Total Credits: 17/19

Pre-requisites

• Students must have studied and passed one of History or Classical Studies at Level 2, or Geography at either Level 1 or 2 before entering for Level 3 Geography.

Specific Costs

• Geography 3.4 skills workbook approx \$27

Number of Credits

Ext. Int.

History (13HIS)

Course Description

This course is designed to build skills of research, analysis, argument constructing and presentations, as well as giving knowledge an interest period of history.

Topics are selected from:

- Spanish Armada
- The First Crusade 1095 - 1120
- Mary Queen of Scots
- Early contact NZ

Pre-requisites

• Students must have passed one of Geography or Classical Studies at Level 2, or History at either Level 1 or 2 before entering for Level 3 History.

Specific Costs

Waitangi Trip - Approximately \$720.00
Trip is optional but recommended.

Number of Credits

Ext. Int.

91434	Research an historical event or place of significance to New Zealanders.		5
91436	Analyse evidence relating to an historical event of significance to New Zealanders.	4	
91437	Analyse different perspectives of a contested event.		5
91438	Analyse the causes and consequences of a significant historical event	6	

Total Credits: 18

Pasifika Studies (13PAS)

Course Description

This class is inclusive and open to all ethnicities and will appeal to students who identify with or who are interested in Pacific history, culture, literature, and contemporary socio-political issues.

Students will be taught Social Studies standards to their academic level. The content of the course will steer towards the students' interests and members of the Pasifika community and other academics will be invited in to share their knowledge on various topics. Students who took Pasifika Studies in Year 12 will not study the same topics in Year 13.

There will be a range of class activities and an additional option to study Tongan (at Christchurch Boys' High on Fridays Term 3) or Samoan through Te Kura Correspondence School.

The class is combined with Level 2 for instruction, but students will complete assessments appropriate to their year level.

Achievement Standards	Number of Credits	
	Ext.	Int.
91596 Demonstrate understanding of ideological responses to an issue.	4	
OR		
91598 Demonstrate understanding of how ideologies shape society.	4	
91597 Conduct a critical social inquiry		6
91599 Examine personal involvement in a social action(s) that aims to influence policy change(s)		6
91600 Examine a campaign of social action(s) to influence policy change(s)		4
	Total Credits:	20

Scripture/Christian Studies

Christian Focus Days

Course Description

These are **compulsory** days which provide opportunities for Year 13 students to explore a range of relevant issues within a biblical context.

They are run in terms 1-3; one Focus Day per term.

Pre-requisites

Nil

Optional Costs

\$20 per Focus Day to cover food

OR

bring own lunch and no charge for food.

Christian Studies (13CHR)

Course Description

The Year 13 course is an option subject taught across the year (4 periods per week). It is intended to build a strong biblical foundation which strengthens personal faith and also equips students to engage confidently with issues that will be faced beyond school.

The course will appeal to those who are seeking to grow in their faith as well as those wanting to acquire credits towards NCEA Level 3. Year 12 students should indicate early if they are interested in doing this subject (numbers have been high in recent years).

Pre-requisites

Nil, but success in Level 2 Christian Studies and Level 2 English is recommended. Assessments are extended essays.

Achievement Standards	Number of Credits	
	Ext.	Int.
90826 Analyse the response of a religious tradition to a contemporary ethical issue.		6
90827 Analyse the key beliefs of a religious tradition and a secular world view in relation to an ultimate question(s).		6
91725 Analyse the meanings in a sacred text within a religious tradition.		6
	Total Credits:	18

Physical Education and Health

Physical Education (13PED)

Course Description

Building on prior learning from Years 11 and 12, students will be extended in their critical thinking and analysis of skills within sport science and sport and society. The course also requires high levels of self-management and organisation.

Students will reflect on and play pastime games to consider future factors that might influence future participation in physical activity. Students will participate in a Tennis unit that allows students to experience a training programme and assess its effectiveness. Other practicals include Futsal and an outdoor based activity – Mountain Biking the McLeans Island Tresillian loop track.

Students will also be given opportunity to examine contemporary leadership styles and experience them in a practical setting. This could be coaching school teams or outside of school teams or training year 7/8 teams for winter sport competition.

By the end of this year, their three years of Senior PE will give them a well-balanced yet comprehensive understanding of the curriculum. They will also have developed life skills that will stand them in good stead wherever they head on their next stage of life. All units are internally assessed.

Scholarship is offered to those who would like to extend themselves.

Pre-requisites

- Students are expected to have achieved 12 credits at Level 2 in P.E, or by negotiation with Head of Faculty, especially if new to MGS.
- It is expected that students play a winter and/or summer sport

Achievement Standards	Number of Credits	
	Ext.	Int.
91498 Evaluate physical activity experiences to devise strategies for lifelong well-being.		4
91500 Evaluate the effectiveness of a performance improvement programme.		4
91501 Demonstrate quality performance of a physical activity in an applied setting.		4
91502 Examine a current physical activity event or trend or issue, impacting on New Zealand society.		4
91503 Examine contemporary leadership principles applied in a physical activity contest.		4
	Total Credits:	20

Technology

Design and Visual Communication (13DVC)

Course Description

The course is designed to extend skills developed at Level 2. It is delivered through project work consisting of a brief related to either of:

- Product Design
- Spatial Design

All assessments are generated through project work that has been completed during the year and comprises both internal and external assessment.

The course leads naturally through to tertiary study for those who wish to take it further.

A course consisting of at least 14-22 credits will be comprised from a selection of the standards below:

Achievement Standards

- | | | | |
|--------------|--|----------|----------|
| 91627 | Initiate design ideas through exploration. | 4 | |
| 91628 | Develop a visual presentation that exhibits a design outcome to an audience. | | 6 |
| 91629 | Resolve a spatial design through graphics practise. | | 6 |
| 91630 | Resolve a product design through graphics practise. | | 6 |
| 91631 | Produce working drawings to communicate production details for a complex design. | 6 | |

Total Credits: 14-22

Pre-requisites

Successful completion of Level 2 DVC course as the work at Level 3 builds on the knowledge and skills acquired through Level 2.

Number of Credits

Ext. Int.

Food and Nutrition (13FNT)

Course Description

In the Level 3 Food and Nutrition course, the focus is on the nutrition, health and well-being needs of New Zealand Society. Students research the complex food related issue of the under-consumption of fruit and vegetables. Students also examine food related ethical issues such as fortification and the marketing of energy dense, nutrient poor food directed at children. The external standards involve analysing and challenging the messages in food advertisements and evaluating conflicting information on topics such as ultra-processed foods, supplementation, and popular dietary advice.

Pre-requisites

- It is required that students have successfully completed a Level 2 FNT course as work at level 3 builds on the knowledge and skills acquired in Level 2.
- As a large proportion of this course involves internet-based research and report writing, students need to bring their

Specific Costs

Approximately \$150 for food used in practical work

Achievement Standards

- | | | | |
|--------------|---|----------|----------|
| 91466 | Investigate a nutritional issue affecting the well-being of New Zealand society. | | 5 |
| 91468 | Analyse a food related ethical dilemma for New Zealand society. | | 5 |
| 91470 | Evaluate conflicting nutritional information relevant to well-being in New Zealand society. | 4 | |
| 91471 | Analyse the influences of food advertising on well-being. | 4 | |

Total Credits: 18

Number of Credits

Ext. Int.

Workshop Technology (13WTC)

Course Description

This course builds on the work covered in Years 11 and 12 and is assessed against BCITO Unit Standards. Students are expected to design and manage a construction project that is of a Level Three complexity. Health & Safety is a necessary element of this project and will also be assessed through an external course if the student has not achieved the standard previously.

Pre-requisites

It is necessary that students have completed a Year 12 workshop programme. Students who are new to Workshop Technology in Year 13 will be working towards Level 1 and 2 standards, based on their experience and ability.

BCITO Standards

- 29678** Demonstrate knowledge of, select, and use materials for a Stage 3 BCATS project.
29681 Measure and calculate for a Stage 3 BCATS project.
29682 Select, use, and maintain tools, equipment and machinery for a Stage 3 BCATS project.
29684 Undertake a Stage 3 BCATS project.

Specific Costs

- Due to the wide range of projects chosen by students, the cost of construction materials can vary greatly. Typically, combined materials for a project of suitable complexity begin around \$100
- Material for instructional purposes is supplied.

Number of Credits

Ext.	Int.
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	4
--	---

	3
--	---

	4
--	---

	12
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Total Credits: 23

Digital Technology:

Computer Science and Programming (13DTC)

Course Description

Level 3 Computer Science and Programming builds on the knowledge and skills gained in Level 2 Computer Science and Programming. It is designed to provide a solid foundation for careers in computing, and the study of computing at tertiary level.

Pre-requisites

- Students must have access to a computer that is running Windows
- Should enjoy solving computational problems. Those whose strengths include Maths and English are most likely to succeed.
- Successful completion of Level 2 Computer Science, or some experience with programming in Python is recommended.

Achievement Standards

- 91902** Use complex techniques to develop a database
91906 Use complex programming techniques to develop a computer program
91907 Use complex processes to develop a digital technologies outcome
91908 Analyse an area of computer science

Number of Credits

Ext.	Int.
------	------

	4
--	---

	6
--	---

	6
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3	
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Total Credits: 19

Digital Skills for Employment and Education (13DTS)

Course Description

This Level 3 course, which is 100% internally assessed, builds on the Level 2 DTA course. It is designed for students who need intermediate level Microsoft Office skills for further educational, personal, or vocational use.

Pre-requisites

- Computer literacy (understanding of computer basics and file management).
- Some experience (preferably NCEA Level 2 equivalent) in MS Word and Excel and PowerPoint is highly recommended.
- An ability to work autonomously and independently.

Unit Standards

	Number of Credits	
	Ext.	Int.
29785 Use a word processing application to integrate images, spreadsheet and database data into documents		5
29786 Produce a spreadsheet for organisational use		5
29789 Use a presentation application to produce an interactive multimedia presentation		3
29792 Use a desktop publishing application to produce documents		4
	Total Credits:	17

Digital Technology Media (13DTM)

Course Description

Level 3 Digital Technology Media provides a solid foundation for careers or tertiary study in design and media technologies. Students in this course will investigate, plan, design, develop and evaluate a digital video outcome.

Pre-requisites

Nil. However, students who have completed a Digital Technology course at Level 1 will be well prepared for entry into Level 2 Digital Technology Media.

Achievement Standards

	Number of Credits	
	Ext.	Int.
91610 Develop a conceptual design considering fitness for purpose in the broadest sense.		6
91611 Develop a prototype considering fitness for purpose in the broadest sense.		6
91612 Demonstrate understanding of how technological modelling supports technological development and implementation.	4	
91903 Use complex techniques to develop a digital media outcome.		4
	Total Credits:	20

Learning Languages

Spanish (13SPA)

Course Description

Spanish continues to be taught communicatively, building skills in reading, writing, listening, and speaking. Students will use Spanish in familiar, less familiar, and formal contexts, advancing their knowledge of Spanish vocabulary, grammar, and structures, and understanding more of Hispanic life and culture. The combined Year 13 course covers Level 8 of the NZ Spanish Curriculum and revisits structures from Levels 1 to 7. By the end of the year, students will acquire personal independence in Spanish and be able to:

- Talk about the consequences of actions (if...then...)
- Give and seek advice
- Talk about the possibility, doubt and uncertainty of actions and events
- Make and respond to requests for something to be done
- Direct others to do/not do something
- Talk about predictions or theories and argue for or against them

Topics may include some or all of these topics:

- Education
- Spanish Films
- Spain
- The environment
- Equality and racism
- The Spanish speaking world

Pre-requisites

Successfully completed NCEA Level 2 Spanish (or equivalent).

Achievement Standards	Number of Credits	
	Ext.	Int.
*91568 Demonstrate understanding of a variety of extended spoken Spanish texts. <i>(Optional Standard)</i>	5	
91569 Give a clear spoken presentation in Spanish that communicates a critical response to stimulus material.		3
91570 Interact clearly using spoken Spanish to explore and justify varied ideas and perspectives in different situations.		6
91571 Demonstrate understanding of a variety of extended written and/or visual Spanish texts.	5	
91572 Write a variety of text types in clear Spanish to explore and justify varied ideas and perspectives.		5
	Total Credits:	19-24

Te Reo Māori (13MAO)

Course Description

This course is internally and externally assessed and continues to build upon the language structures, customs, and vocabulary learned in Level 2.

A maximum of 22 credits will be available for this course

Pre-requisites

Successfully completed NCEA Level 2 Māori or by negotiation with Teacher in Charge of Māori.

Specific Costs

- Optional day trips
- Optional overnight Marae visit - approximately \$150
- Optional Māori dictionary

Achievement Standards	Number of Credits	
	Ext.	Int.
91650 Whakarongo (listening)		4
91652 Pānui (reading)	6	
91653 Tuhituhi (writing)	6	
91654 Waihanga tuhinga (crafted writing)		6
	Total Credits:	22

Visual Art

Art Design (13ARD)

Course Description

Students will use art making processes and procedures and apply this to their own personal investigation. They will set their own design brief, producing promotional materials based on their own investigations and tasks set by their teacher. The student will discuss their idea with their teacher and negotiate an approach. The evidence of the art-making process will be assessed internally and the artworks themselves will be verified externally as a folio-board submission (three boards). The folio board is developed through the successful application of conventions, methods and processes explored through the internal component of the course.

Pre-requisites

- Limited places are available in this course
- Must have achieved a pass in Level 2 Design, Painting or Photography.
- Computer knowledge is beneficial

Specific Costs

- Printing and specialty paper \$65.00
- Courier charge \$10.00

Achievement Standards

	Ext.	Int.
91445 Use drawing to demonstrate understanding of conventions appropriate to design.		4
91450 Systematically clarify ideas using drawing informed by established design practice.		4
91455 Produce a systematic body of work that integrates conventions and regenerates ideas within design practice.	14	

Total Credits: 22

Art Painting (13ARP)

Course Description

Students will develop their own theme with the guidance of their teacher, exploring various art-making conventions to create a series of related artworks. Throughout the year, they will refine their skills and ideas, culminating in a three-panel folio that showcases their focused artistic journey and personal expression. Studying painting nurtures creativity and self-expression, reflecting God's nature as the ultimate Creator. Just as God intricately designed the world, painting allows us to explore His gift of creativity, mirroring His beauty and complexity.

Pre-requisites

Must have achieved a pass in Level 2 Painting, Photography or Design.

Specific Costs

- Printing and specialty paper \$30.00
- Courier charge \$10.00

Achievement Standards

	Ext.	Int.
91446 Use drawing to demonstrate understanding of conventions appropriate to painting.		4
91451 Systematically clarify ideas using drawing informed by established painting practice.		4
91456 Produce a systematic body of work that integrates conventions and regenerates ideas within painting practice.	14	

Total Credits: 22

Art Photography (13APH)

Course Description

Students will use art making processes and procedures learnt in the previous year and apply this to their own personal investigation. The student will set their own photography brief, producing a series of photographic art works based on their own investigations and tasks set for the class by their teacher. The student is given the opportunity to initiate their own artwork and choose their own subject matter via a brief. They will discuss their ideas with their teacher and negotiate an approach. They will develop a sustained body of evidence/work, based on established practice. The evidence of the art-making process will be assessed internally and the artworks themselves will be verified externally as a folio-board submission (three boards). The internal standard requires the student to use conventions appropriately and develop ideas in a related series of drawings related to established photographic practice. The folio board is developed through the successful application of methods and processes explored through the internal component of the course.

Pre-requisites

- Must have achieved a pass in Level 2 Painting, Photography or Design.
- Digital camera with manual settings and ability to change the aperture and shutter speed is required.
- Tripod (helpful)

Specific Costs

- Printing and specialty paper \$65.00
- Locker key bond (refundable) \$20.00

Achievement Standards

		Number of Credits	
		Ext.	Int.
91447	Use drawing to demonstrate understanding of conventions appropriate to photography		4
91452	Systematically clarify ideas using drawing informed by established photography practice		4
91457	Produce a systematic body of work that integrates conventions and regenerates ideas within photography practice.	14	

Total Credits: 22

Drama

Drama (13DRA)

Course Description

This course provides an opportunity for those with aptitude and interest in Drama to explore and develop their skills; be mentored and inspired; and work with those with similar interests.

Performance is an integral part of this course, and participation in school performance opportunities is expected of all Drama students.

Course work will focus on aspects of the three broad areas of:

- personal skills development
- performance and stage craft
- dramatic theory and theatre history

Pre-requisites

Although success at Level 2 offers an advantage, the motivated student, with some ability and performance experience, beginning curriculum drama at this level will find the course both challenging and rewarding.

Specific Costs

Opportunity to purchase a group discount ticket for a live theatre production will be made available, in order to complete submission for AS91518.

Achievement Standards - depending on skills and interests of the class, the course will offer a selection of the standards below:

		Number of Credits	
		Ext.	Int.
91512	Interpret scripted text to integrate drama techniques in performance.		4
91514	Interpret a prescribed text to demonstrate knowledge of a theatre form or period.	4	
91517	Perform a substantial acting role in a significant production.		5
91518	Demonstrate understanding of a live drama performance.	4	
	and one of either:		
91513	Devise and perform a drama to realise a concept OR		5
91519	Script a drama suitable for live performance.	5	

Total Credits: 22

Music

Music (13MUS)

Course Description

This course provides an opportunity for those with aptitude and interest in Music to explore and develop their skills, be mentored and inspired, and work with those with similar interests.

Performance is an integral part of the course, and participation in school performance opportunities is required of all music students.

Course work will focus on aspects of the four broad areas of:

- Music creation and composition.
- Performance and stage craft.
- Music listening and aural skills.
- Music theory and history.

Note: Students will not complete all standards.

Pre-requisites

- 16 credits at Level 2 or similar. Any students new to Music will need to audition or provide exam evidence of 4 or more years of experience and instrument learning. NB Voice is an instrument.
- Year 13 Music students are expected and encouraged to assist in leading school music groups as is appropriate to their instrument.

Specific Costs

\$40 per annum for those who use the school accompanist for solo performances.

Achievement Standards and Unit Standards

		Number of Credits	
		Ext.	Int.
91416	Perform two programmes of music as a featured soloist.		8
91417	Perform a programme of music as a featured soloist on a second instrument.		4
91418	Demonstrate ensemble skills by performing two substantial pieces as a member of a group.		4
91419	Communicate musical intention by composing three original pieces of music.		8
91420	Integrate aural skills into written representation.	4	
91421	Demonstrate understanding of harmonic and tonal conventions in a range of music scores.	4	
91422	Analyse a substantial music work.	4	
91423	Examine the influence of context on a substantial work.		4
91424	Create two arrangements for an ensemble.		4
#23730	Operate digital music sequencing and editing applications and use music notation software.		8
#28007	Select and apply a range of processes to enhance sound in a performance context.		6
# Not UE accredited		Total Credits: Up to 24	

Alternative Pathways to Qualifications

STAR (Secondary Tertiary Alignment Resource)

The STAR provides learning experiences that link to students' needs and transitions them into tertiary study. Courses may be within the school (such as Barista, First Aid, or online like some first year University courses.)

See Mrs Bailey, or Mrs Wilson for any requests.

STAR aims are to:

- Help students' direct entry into the work force
- Provide students with courses that both meet their needs and help their transition into further education or employment
- Help students make informed decisions about their future schooling and future work

Te Kura Correspondence School (13COR)

Subjects which are not offered at Middleton are sometimes offered through the correspondence school. Students are allowed to do these subjects at the discretion of their parents, their Dean and the Te Kura Co-ordinator, Mrs Bailey. They would do the subject during their study time.

Tourism (13TAH)

Course Description

The class is open to Year 13 students who are interested in a career pathway in tourism. Students will also learn work skills relevant to the industry. Guest speakers and tertiary liasons will be invited to make presentations to the class. Students will complete 10 days of work experience outside school hours. Recommended to study alongside Food Technology, Geography, Business Studies, Physical Education.

As this is a Gateway funded course, there is a 20 credit requirement for Tertiary Education Commission reporting purposes. These 20 credits must be obtained from the standards below to meet this requirement.

Unit Standards	Number of Credits	
	Ext.	Int.
3727 Demonstrate knowledge of Pacific Island countries as visitor destinations.		5
26461 Demonstrate knowledge of Asian countries as tourist destinations		8
31071 Identify and explain the cultural significance of natural and man-made attractions in tourism Māori.		6
9681 Contribute within a team or group which has an objective		3
11097 Listen actively to gain information in an interactive situation		3
7126 Respond to negative feedback in one-to-one situations		2
1307 Speak to a known audience in a predictable situation		3
	Total Credits:	30

Introduction to Education and Teaching (13IET)

Course Description

This course is designed to prepare students who are interested in a career working with children. The career possibilities include Early Childhood Education and Primary Teaching, Social Work, Nursing etc. The course sets the foundation for understanding children's development and learning in the wider context of community, culture and ethics.

The course involves work experience in an Early Childhood Centre for two days per term for three terms, and in the Primary School during timetabled periods.

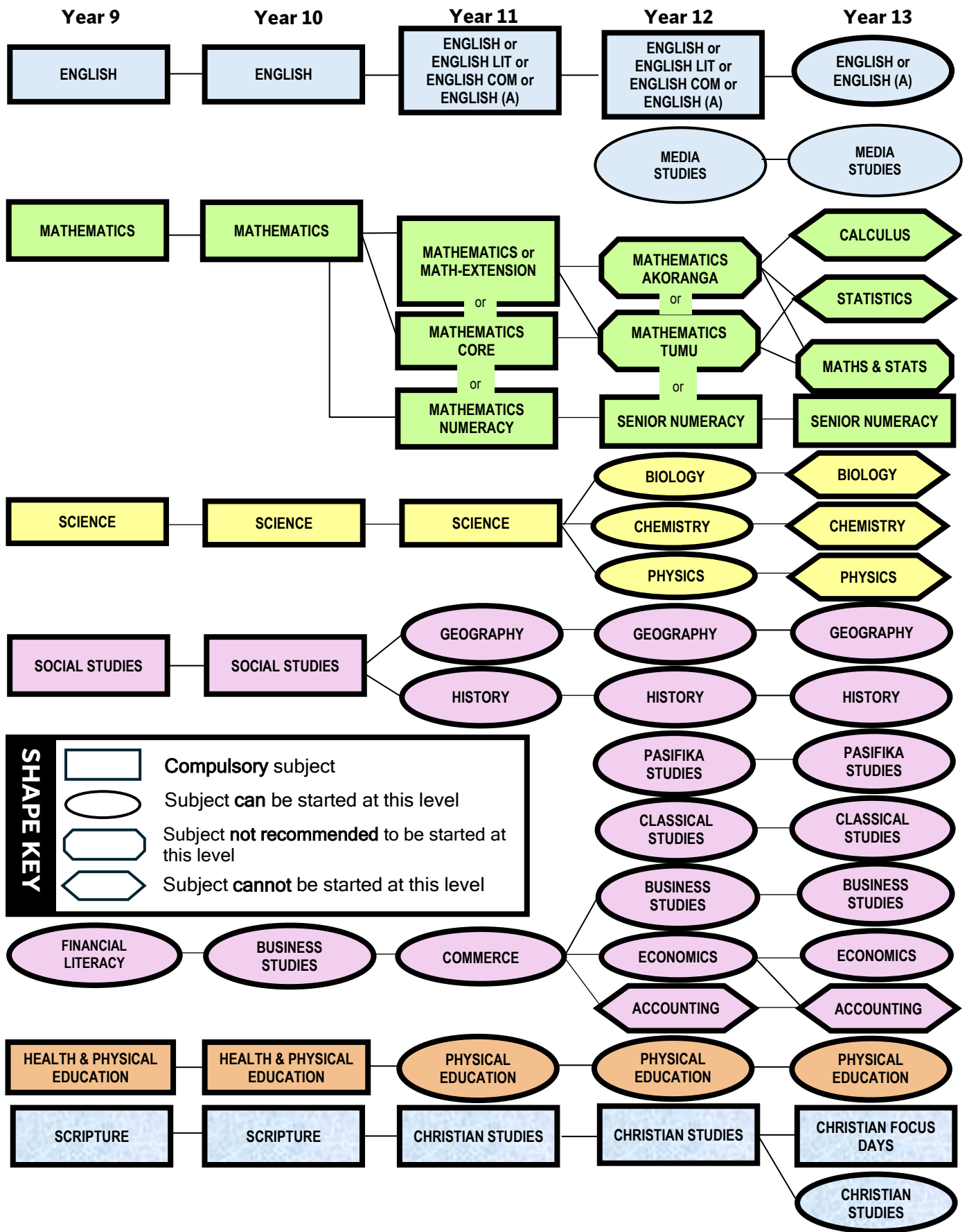
There is a practical component including Sign Language, Music, Te Reo Māori, Art and resource making. Personal development and growth is an important aspect of the course with various tools used to foster this including the Strengths Finders team coaching.

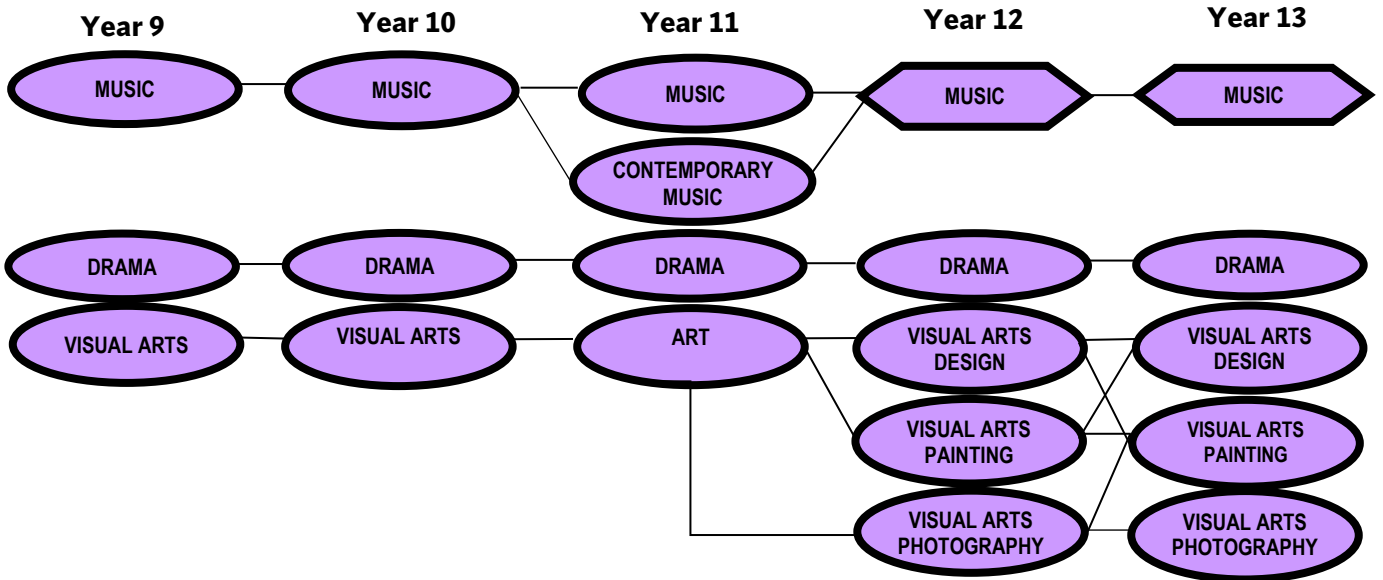
In consultation with the students, and based on their interests and academic needs, the course will be finalised in February 2025

As this is a Gateway funded course, there is a 20 credit requirement for Tertiary Education Commission reporting purposes. These 20 credits must be obtained from the standards below to meet this requirement.

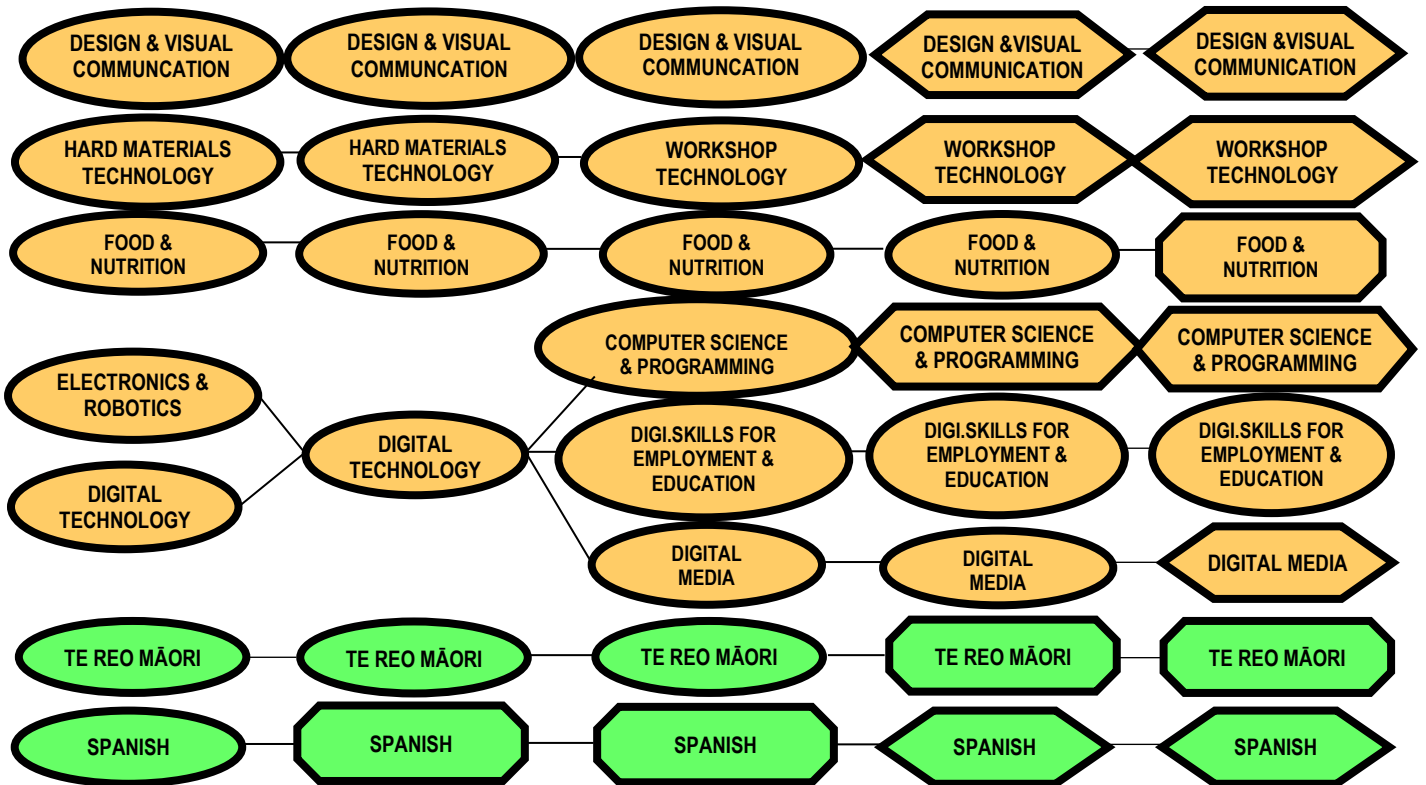
Unit Standards	Number of Credits	
	Ext.	Int.
10013 Explain the relevance of the New Zealand Early Childhood Curriculum Te Whāriki as a framework for programme development		2
29863 Develop, implement and evaluate a learning plan based on observation of a child in an ECE service		5
29864 Demonstrate knowledge of attachment theories, behaviours and transition support in an early childhood setting.		3
29865 Describe and reflect on practices to protect and promote the health and holistic wellbeing of young mokopuna/children		4
29869 Demonstrate knowledge of ethical responsibility to guide practice in an early childhood setting.		3
30911 Demonstrate knowledge of a specified workplace.		3
	Total Credits:	20

Middleton Grange Subject Pathway





These diagrams are accurate at the time of printing. Subsequent changes may occur as courses develop.



COLOUR KEY	English	Mathematics & Statistics	Science
	Social Sciences	Health & Physical Ed	Scripture Christian Studies
	Technology	The Arts	Learning Languages

Alternate Pathways

