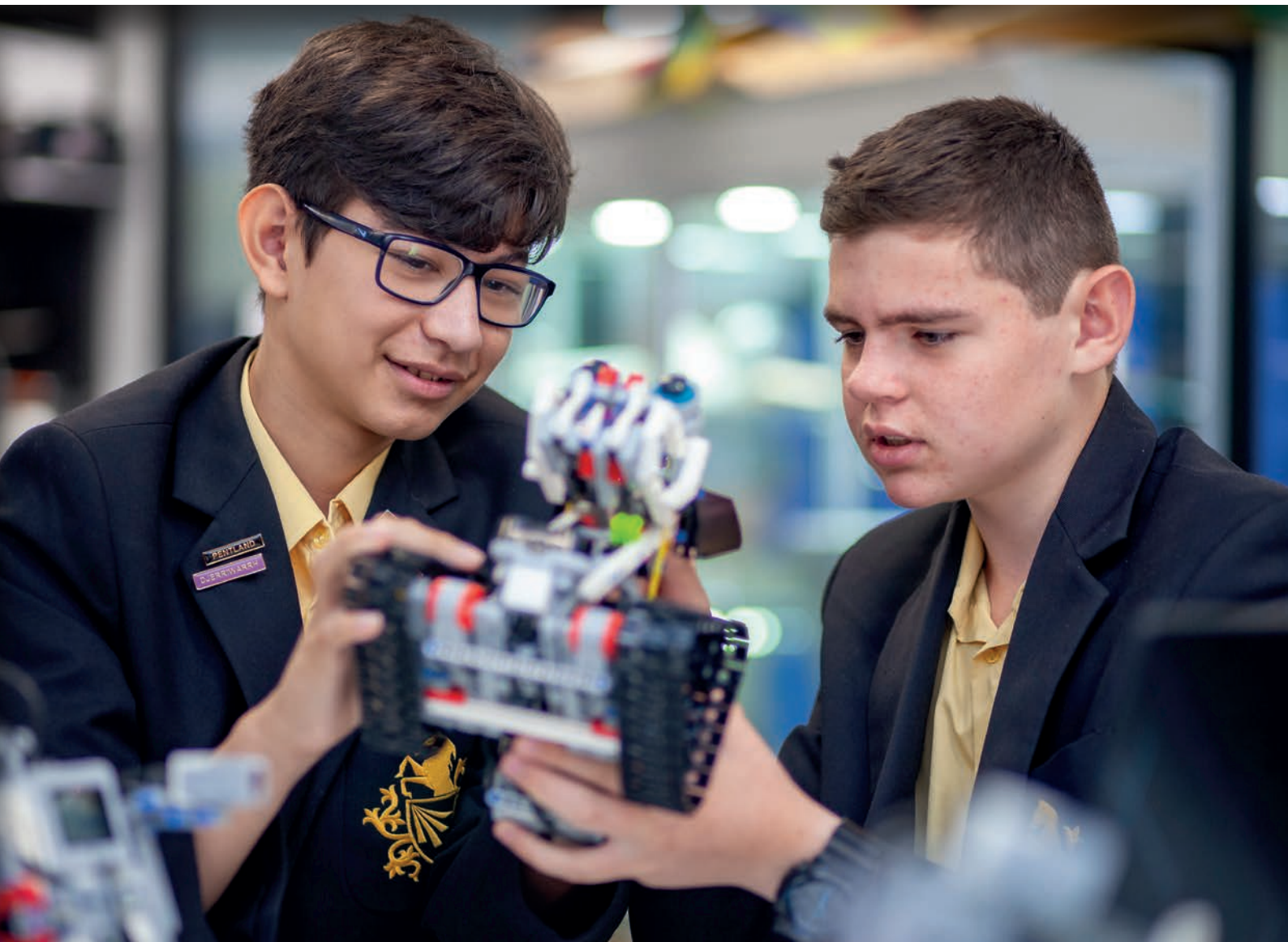
Doctrina Vitae

Bacchus Marsh Grammar

2027

YEAR 9 SCHOOL HANDBOOK



Contents

Senior School 3

Key Contact Information 3

The Structure 4

The Inspire Program 4

VCE Acceleration 5

Subject Selection Process 6

Year 9 Subject Selection Requirements 6

Student Athletes - NCAA Eligibility and Subject Planning 7

Students considering overseas study after Year 12 7

Sample Year 9 Pathways 7

Pathways for VCE Studies available at BMG in 2027 8

Year 9 Subject Selection Planning Form 12

Web Preferences Access Guide 13

Study Descriptions 14

English 14

English | Australian Murder Mysteries in Literature

Mathematics 16

Mathematics | General Mathematics | Mathematical Methods | Advanced Mathematics | General Mathematics (Maddingley and Woodlea invite only)

Humanities 18

Australia and the World Wars | Australia: A Changing Nation | Geography | Ethics | History (Maddingley invite only)

Commerce 20

Global Citizenship and Democracy | Personal Finance | Legal Studies (Woodlea invite only)

Languages 21

French | Japanese | Indonesian (Maddingley only)

Science 22

Science (CORE) | Physics and Chemistry: The Study of Light and Matter | Chemistry in Nature | Health and Disease | Developmental Psychology | Astronomy | Horticulture (Maddingley only) | Principles of Aviation (Woodlea only) | Biology Pre-VCE | Environmental Science Pre-VCE | Psychology Pre-VCE | VCE Acceleration in Science | Environmental Science (Maddingley and Woodlea invite only)

Physical Education and Health 26

PE/Health | Sports Performance | Outdoor Education | Elite Sports Training (Maddingley invite only) | Elite Sports Training (Woodlea invite only)

VCE Acceleration in Physical Education and Health 27

Health and Human Development Units 1 and 2 (Maddingley invite only)

Visual Arts 28

Art Making & Exhibiting | Photography | Visual Communication | Media Studies

Design and Technology 30

Design Technology 30

Engineering - CAD/CAM | Product Design - Textiles | Product Design - Furniture | Engineering - Mechatronics | Design & Technology - Housing | Flight Technology

Food and Hospitality 32

Food Technology (Maddingley only) | Hospitality Café (Woodlea only) | Horticulture (Maddingley only)

Digital Technology 33

Computing - Fundamentals

Performing Arts 34

Dance Creation | Dance Design | Devised Drama | Drama Performance | Music Performance I | Music Performance II

SENIOR SCHOOL

The Bacchus Marsh Grammar Senior School is underpinned by a culture of high expectations and a calm structured learning environment, to ensure that all students achieve their personal best and are well-placed to succeed and thrive in their future endeavours.

Aligned with our ethos of an 'Education for Life', the Senior School provides an academically rigorous program. Students are supported to select their programs from a breadth of subjects to maximise their engagement and academic achievement. As well as providing a general pathway to VCE, students are able to choose specialist pathways to accelerate their senior studies. Limited positions are also available in the Senior School's Vocational Major program at the Maddingley Campus.

The Senior School places strong emphasis on the development of self, with opportunities to serve and lead both within the school, and the wider community. Through programs such as the Duke of Edinburgh Award, students develop leadership skills and traits aligned to our School Values & Virtues which are transferable to modern workplaces. Senior students are encouraged to become involved in the school's many co-curricular activities and leadership opportunities.

Bacchus Marsh Grammar senior students are supported by a team of specialist VCE teachers, tutors, career practitioners and a pastoral care team to achieve their full potential. Our students achieve excellent ATAR (Australian Tertiary Admissions Rank) results. These results are celebrated and demonstrate the students' readiness for their chosen pathways and their capacity to embark on exciting futures equipped with the knowledge to be life-long learners.

Tutor Group teachers, classroom teachers and Heads of Year will continue to play a pivotal role in the lives of Senior School students. We encourage all families to engage in positive and consistent communication with staff to ensure the best outcomes for students.

Name	Title	Email
Mrs Erin Thornton	Head of Learning & Teaching & Senior Programs	thorntone@bmg.vic.edu.au
Mrs Natalie Desira	Head of Senior School - Maddingley Campus	desiran@bmg.vic.edu.au
Mrs Nicole Heywood	Head of Senior School - Woodlea Campus	heywoodn@bmg.vic.edu.au

Key Contact Information

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School Website www.bmg.vic.edu.au
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	Maddingley Campus	Woodlea Campus
Phone Number	(03) 5366 4800	(03) 5366 4900
Absentee Number	(03) 5366 4888	(03) 5366 4988
Absentee Email	maddingley_absentees@bmg.vic.edu.au	woodlea_absentees@bmg.vic.edu.au
Address	Bacchus Marsh Grammar - Maddingley South Maddingley Road Bacchus Marsh VIC 3340	Bacchus Marsh Grammar - Woodlea 111 Frontier Ave Aintree VIC 3336

The Structure

The Year 9 program is comprised of 12 units which is a combination of compulsory (core subjects) and optional units. This Program leads into VCE selections, allowing students to pursue their interests and begin refining pathways for the future and to challenge themselves academically. Students should select a program that offers them a wide range of subjects and experiences.

There are requirements for the types of subjects a student is to undertake which ensures they have been exposed to a wide range of subjects prior to VCE. Please refer to the Year 9 Subject Selection Requirements on the following pages for these details.

Pre-VCE courses are designed to be taken the year before commencing the VCE subject, so care needs to be taken as to when these subjects are selected. Students considering accelerating in a VCE Unit 1 and 2 subject in Year 10 should keep in mind the VCE acceleration requirement when selecting Year 9 subjects. For example, if a student wishes to accelerate Unit 1 and 2 Biology in Year 10, then this student should select the relevant Pre VCE subject in Year 9.

The Inspire Program

Students in Years 9 and 10 are required to take part in the Inspire Program. Throughout the two-year period, each child will be involved in a range of activities which are aligned to Character Education and our school values (Discipline, Leadership, Ambition, Respect, Confidence, Kindness, Knowledge and Wisdom and virtues (Intellectual, Performance, Civic, Moral). The Inspire Program aims to:

- Help students set goals for their learning and future pathways;
- Develop their understanding of study skills, leadership and personal strengths; and
- Make stronger links with the community.

In Year 9, students are required to complete the Bronze Duke of Edinburgh International Award. This International Award involves completing a minimum of three months of Physical Activity; three months Community Service; three months learning a skill; and participation in an Adventurous Journey (School Camp).

In Year 10, students are encouraged to begin working towards their Silver Duke of Edinburgh International Award. They will continue to be involved in activities that develop their leadership skills and personal strengths.

Students will participate in a Tertiary Experience Day.

An optional feature of the Inspire Program is the ability for Year 10 students to participate in a vocational work experience placement during one of the term breaks. The aim of work experience is for students to develop skills in a workplace environment. Students will need to source and arrange this themselves.

VCE Acceleration

At Bacchus Marsh Grammar, we recommend that all students consider accelerating in a VCE subject if they are academically prepared for the challenge. This means commencing a VCE subject prior to Year 11. This will enable students to develop the skills required for VCE success. It is important to note that any accelerated Unit 3 and 4 subject will contribute to their ATAR.

Students wanting to accelerate in a VCE subject in Year 10 are required to maintain an average grade of B in that subject area and demonstrate a strong approach to study in all subject areas. Continuing in the accelerated VCE subject, students will need to maintain the same requirements in following year. If these are not achieved, students will not be permitted to continue in the VCE accelerated subject and will be required to select another subject.

VCE acceleration in Year 9 is by invitation only.

Please note: There are some studies where acceleration is not recommended:

- Chemistry
- Economics
- English
- Hospitality
- Languages
- Mathematical Methods
- Physics
- Specialist Mathematics

Special note regarding Music and Performing Arts: Students wishing to accelerate in a Music and/or Performing Arts subject will require an audition/interview to determine suitability. A high level of technical skill and performance maturity must be demonstrated.

Subject Selection Process

The Year 9 Program is based on a common core curriculum. However, students are able to personalise their learning programs through the selection of a number of other subject options. We encourage students to make informed choices when planning their Year 9 course, keeping possible VCE pathways in mind.

When selecting subjects, students should consider the following:

- choose subjects that they are good at, enjoy and will find challenging;
- choose subjects that combine to form a balanced program;
- choose a range of subjects that will lead to a suitable VCE pathway & consider pre-requisites (students must check appropriate VTAC guide)
- be realistic and strategic in their planning for future pathways; and
- meet the school subject requirements.

Note: Please be advised that if student numbers are not met in a particular subject, it may not proceed in 2027.

Year 9 Subject Selection Requirements

Rules:

- CORE SUBJECT: Year 9 English (a year long subject)
- CORE SUBJECT: Mathematics (a year long subject)
- Semester One Year 9 Mathematics
- Semester Two General Mathematics or Mathematical Methods
- CORE SUBJECT: Year 9 Science (one semester)
- CORE SUBJECT: PE/Health (one semester)
- CORE SUBJECT: Australian History (choice of two subjects for one semester)
- CORE SUBJECT: Must select one subject from Design & Technology AND/OR Performing Arts & Music AND/OR Visual Arts faculty for breadth

Other Notes:

- Selection for the Year 9 VCE acceleration program is by invitation only and this may impact a student's core subject requirements. For example, if a student takes an accelerated subject, there may be discretionary exemptions to rules for students in the Year 9 acceleration program. For example, if a student takes accelerated History, they do not need to complete compulsory Australian History in Year 9 because they will complete Units 3 and 4 Australian History in Year 10.
- 'Pre-VCE' subjects are available for Year 9 students to select, if they are considering accelerating in a Unit 1 and 2 VCE subject in Year 10.

Student Athletes - NCAA Eligibility and Subject Planning

Students aspiring to compete in the National Collegiate Athletic Association (NCAA) must meet the **NCAA 16 core subject requirements**, which are assessed across a **four year academic period from Years 9–12**. Early and intentional subject selection is therefore essential to ensure ongoing eligibility. Student athletes are responsible for managing their academic pathway alongside their sporting commitments. **Bacchus Marsh Grammar will support students through subject counselling, pathway planning and monitoring**, however responsibility for meeting NCAA requirements remains with the student. In addition to academic eligibility, student athletes must also meet **high level sporting criteria**, typically competing at a **state or national level**.

Further information, including approved subjects and eligibility timelines, is available via the **NCAA Eligibility Center Website: https://web3.ncaa.org/ecwr3/**

Students considering overseas study after Year 12

Students considering overseas study after Year 12 are responsible for ensuring they meet all **course prerequisites and entry requirements** set by international universities and admissions bodies. These requirements vary by country, institution and course, and may include specific subject studies, academic standards and additional conditions.

To support success, students are encouraged to **research overseas options early** and plan their subject selections strategically across **Years 9–12**. Early planning helps align studies with intended pathways and avoid gaps that may limit eligibility. While the school provides guidance and pathway support, **ultimate responsibility for meeting overseas admission requirements rests with the student**.

Sample Year 9 Pathways

	Sample Year 9 Pathway	
	Semester One	Semester Two
1	English	English
2	Maths	Maths - GM/MM
3	Science	Physical Education
4	Australia: A changing nation OR Australia and the World Wars	Design & Technology/ Performing or Visual Arts Subject
5	Option	Option
6	Option	Option

	Year 9 Pathway - VCE Baccalaureate	
	Semester One	Semester Two
1	English	English
2	Mathematics	Maths - MM
3	Science	Physical Education
4	Languages	Languages
5	Australia: A changing nation OR Australia and the World Wars	Design & Technology/ Performing or Visual Arts Subject
6	Option	Option

	Year 9 Pathway and Languages subject	
	Semester One	Semester Two
1	English	English
2	Mathematics	Maths - GM/MM
3	Science	Physical Education
4	Australia: A changing nation OR Australia and the World Wars	Design & Technology/ Performing or Visual Arts Subject
5	Option - Languages	Option - Languages
6	Option	Option

	Year 9 Pathway - VCE Acceleration (by invite only)	
	Semester One	Semester Two
1	English	English
2	Mathematics	Maths - GM/MM
3	Science	Physical Education
4	Australia: A changing nation OR Australia and the World Wars	Design & Technology/ Performing or Visual Arts Subject
5	Option	Option
6	Option - VCE Unit 1/2	Option - VCE Unit 1/2

Pathways for VCE Studies available at BMG in 2027

Learning Area	Year 7	Year 8	Year 9		Year 10	Year 11 Unit 1 & 2	Year 12 Unit 3 & 4
English	English	English	**CORE** English Year 9		**CORE** English Year 10	• English • English Language • Literature • Vocational Literacy (Maddingley Only)	• English • English Language • Literature • Vocational Literacy (Maddingley Only)
			OPTION Australian Murder Mysteries in Literature		**OPTIONS** • Literature Pre-VCE • English Language Pre-VCE		
Mathematics	Mathematics	Mathematics	**CORE** Year 9 Mathematics	**CORE** General Mathematics OR Mathematical Methods	**CORE** • General Mathematics OR Mathematical Methods • Foundation Maths – (Invite Only)	• General Mathematics • Mathematical Methods • Specialist Mathematics • Foundation Maths (Maddingley – Invite Only)	• General Mathematics • Mathematical Methods • Specialist Mathematics • Vocational Numeracy (Maddingley Only)
			OPTION Year 9 Advanced Mathematics		**OPTION** Year 10 Advanced Mathematics		
Humanities	History	History	**OPTION** Australia: A changing nation OR Australia and the World Wars		**OPTION** Conflict in Asia Pre-VCE Germany in the 20th Century Pre-VCE	• History (Accelerated Program Only) • History-Modern	• History-Australian • History-Revolutions
						Politics	Politics
	Geography	Geography	**OPTION** Geography		Geography Pre-VCE	Geography	Geography
Commerce			**OPTION** • Personal Finance • Global Citizenship and Democracy		**OPTION** • Accounting and Economics • Australian Politics and Legal Studies • Business Management Pre-VCE • VET Certificate II in Workplace Skills	• Accounting • Business Management • Economics • Legal Studies	• Accounting • Business Management • Economics • Legal Studies
Languages	French	French	**OPTION** French Year 9		**OPTION** French Pre-VCE	French	French
	Japanese	Japanese	**OPTION** Japanese Year 9		**OPTION** Japanese Pre-VCE	Japanese	Japanese
	Indonesian* (Maddingley Only)	Indonesian* (Maddingley Only)	**OPTION** Indonesian Year 9 (Maddingley Only)		**OPTION** Indonesian (Maddingley Only) Pre-VCE	Indonesian (Maddingley Only)	Indonesian (Maddingley Only)

Learning Area	Year 7	Year 8	Year 9	Year 10	Year 11 Unit 1 & 2	Year 12 Unit 3 & 4
Science	Science	Science	**CORE** Year 9 Science **OPTION** • Health & Disease • Developmental Psychology • Physics & Chemistry: The study of Light and Matter • Chemistry in Nature • Biology Pre-VCE • Environmental Pre-VCE • Psychology Pre-VCE • Principles of Aviation (Woodlea Only) • Astronomy	**OPTION** • Chemistry Pre-VCE • Physics Pre-VCE • Biology Pre-VCE • Environmental Science Pre-VCE • Psychology Pre-VCE • Flight Dynamics (Woodlea Only)	• Biology • Chemistry • Environmental Science • Physics • Psychology	• Biology • Chemistry • Environmental Science • Physics • Psychology
Physical Education, Sport and Health	PE/Health	PE/Health	**CORE** Year 9 PE/Health **OPTION** • Year 9 Elite Sport Training (Invite Only) • Year 9 Sports Performance • Outdoor Education	**CORE** Year 10 PE/ Health **OPTION** • Year 10 Elite Sport Training (Invite Only) • Global Health & Development • Injury Prevention & Control • Year 10 Sports Performance • Unit 1 and 2 Outdoor and Environmental Studies (Year 10 Only)	• Physical Education • Health and Human Development • Unit 3 and 4 Outdoor and Environmental Studies (Year 11 only) • Unit 3 and 4 VCE VET Cert III Sport, Aquatics and Recreation	• Physical Education • Health and Human Development
Visual Arts	Art	Art	**OPTION** • Year 9 Art Making & Exhibiting • Year 9 Photography • Year 9 Visual Communication • Year 9 Media Studies	**OPTION** • Year 10 Art Making & Exhibiting • Year 10 Photography • Year 10 Visual Communication • Year 10 Media Studies	• Art Making and Exhibiting • Media • Visual Communication Design	• Art Making and Exhibiting • Media • Visual Communication Design

Learning Area	Year 7	Year 8	Year 9	Year 10	Year 11 Unit 1 & 2	Year 12 Unit 3 & 4
Design and Technology	Design and Technology	Design and Technology	**OPTION** • Year 9 Engineering – CAD/CAM • Year 9 Product Design - Furniture • Year 9 Product Design – Textiles • Year 9 Engineering - Mechatronics • Year 9 Design & Technology - Housing • Year 9 Flight Technology (Maddingly only) • Year 9 Horticulture (Maddingley Only)	**OPTION** • Year 10 Product Design - Furniture • Year 10 Product Design -Textiles • Year 10 Engineering – CAD/CAM • Year 10 Engineering – Mechatronics Systems	• Systems Engineering • Product Design and Technology (Textiles or Wood)	• Systems Engineering • Product Design and Technology (Textiles or Wood)
	Food Technology	Food Technology	**OPTION** • Year 9 Food Technology (Maddingley) • Hospitality Café (Woodlea) • Horticulture (Maddingley)	**OPTION** • Hospitality Café • Year 10 Food Technology (Maddingley Only)	• Food Studies (Maddingley) • VCE VET Hospitality	• Food Studies (Maddingley) • VCE VET Hospitality
	ICT / Design Technology	ICT / Design Technology	Year 9 Computing – Fundamentals	• Computing - Advanced Programming	Applied Computing	Applied Computing
Performing Arts & Music	Drama	Drama	**OPTION** • Devised Drama • Drama Performance	**OPTION** • Devised Drama • Drama Performance	Drama	Drama
	Music	Music	**OPTION** • Year 9 Music Performance I • Year 9 Music Performance II	**OPTION** • Year 10 Music Performance III • Year 10 Music Performance IV	• VCE VET Music Industry • VCE VET Music Performance	VCE VET Music Performance
	Dance	Dance	**OPTION** • Dance Creation • Dance Design	**OPTION** • Dance Creation • Dance Design	Dance	Dance

Please note: Certain Unit 1 and 2 subjects are on offer to students by invitation only in 2027. These subjects will be assigned to a student's web preferences after the offers have been made. Staff will work with the accelerated students to ensure their subject offerings match their pathway. Further information will be presented to students who receive an offer.

Year 9 Subject Selection Planning Form

Each semester you will complete six subjects, totalling 12 subjects over the year.

Fill in all of the lightly shaded boxes in the table provided below with the following requirements in mind:

1. **CORE SUBJECT:**
   Year 9 English (a year long subject).
2. **CORE SUBJECT:**
   Mathematics (a year long subject).
   - » **Semester One**
     Year 9 Mathematics.
   - » **Semester Two**
     General Mathematics or Mathematical Methods.
3. **CORE SUBJECT:**
   Year 9 Science (one semester).
4. **CORE SUBJECT:** PE/Health (one semester).
5. **CORE SUBJECT:**
   Australian History (choice of two subjects for one semester).
6. **CORE SUBJECT:** Must select one subject from Design & Technology AND/OR Performing Arts & Music AND/OR Visual Arts faculty for breadth.

In the table below titled Year 9, enter the subjects you wish to undertake. You must list all your subjects in order of preference, with the subject that you most wish to undertake being listed first. You will complete the subject selection process in the Web Preferences program.

	Year 9 Subject Selection Planner	
	Semester One	**Semester Two**
1	**CORE** Year 9 English	**CORE** Year 9 English
2	**CORE** Year 9 Mathematics	**CORE (Circle a Mathematics)** General Mathematics **OR** Mathematics Methods
3	**CORE** Year 9 Science **CORE** Year 9 Physical Education	**CORE** Year 9 Science **CORE** Year 9 Physical Education
4	**CORE (Circle a Australian History)** Australia & The World Wars Australia: A Changing Nation	**CORE** Design & Technology **AND/OR** Performing Arts & Music **AND/OR** Visual Arts Subject
5	**OPTION**	**OPTION**
6	**OPTION**	**OPTION**

Fill in your reserve subjects in the darker shaded boxes. These subjects are used if your selected preferences are not available.

Reserve Subjects (in order of preference)			
1	2	3	4
5	6	7	8

Web Preferences Access Guide

Web Preferences is a web publication that allows students to enter their subject preferences on-line. This access guide details the procedures to access and use Web Preferences.

Step 1: Internet Access

Before you begin, make sure that you have access to a computer that has the following: an Internet connection and access to a printer.

Year 9 subject preferences open:

- **Maddingley: Friday 31 July 2026 and close at 9pm Friday 14 August 2026** (printed forms are due to the Tutor Teachers by Monday 17 August).
- **Woodlea: Friday 7 August 2026 and close at 9pm Friday 21 August 2026** (printed forms are due to the Tutor Teachers by Monday 24 August).

Step 2: Accessing and logging into Web Preferences

Students will receive an email titled 'Web Preferences Access Guide'.

Select the link provided in the email 'Click to open Web Preferences' to access the Login page.

Enter the Student Access Code and Password provided to you in the email. (Note the entries are case sensitive).

If there is an error in entering either the Student Code or Password, an error message in red text will be displayed at the bottom of the page.

Step 3: Home Page

To view the details of each subject available for selection, click on the 'View Subject Details' button.

To continue, click on the button 'Return to Home Page'.

To select or change your preferences, click on the 'Add New Preferences' button.

An Initial Instructions page will appear. Once you have read these instructions click the "Continue" button.

Step 4: Subject Preference Selection

On the Preferences Selection page, follow the instructions on this page to select subjects from the drop-down list boxes.

When you have finished, click on the 'Submit Selected Preferences' button.

Step 5: Preferences Validation

The 'Preferences Validation' page will display all your preferences in the order you have selected them. If you are happy with your preferences then continue by clicking the 'Submit Valid Preferences' button which will open a page titled 'Preference Receipt'.

***Remember to preference in order from the subjects you most wish to do.**

Alternatively, if you would like to make changes to the preferences you have entered, click on the "Cancel" button and this will take you back to the Preferences Selection page.

Step 6: Preference Receipt

You can print your 'Preference Receipt' page by clicking on the 'Open Print View' button and clicking the 'Print Receipt' button.

Ensure the printed receipt is signed by both student and parent, then return to the Tutor Teacher by Monday 3rd September.

For your own records, print or download and save a second receipt. To continue, click on the 'Return to Home Page' button.

If you want to change your preferences repeat the process by clicking the 'Add New Preferences' button (you can submit up to three completed preferences by the due date), otherwise exit by clicking the 'Log out' button.

STUDY DESCRIPTIONS

English

Maddingley Contact Person:	Mrs Karin Kos (kosk@bmg.vic.edu.au)
Woodlea Contact Person:	Ms Alanna Kappler (kapplera@bmg.vic.edu.au)

ENGLISH (CORE)

In Year 9 English, students develop their skills in reading, creating and exploring a range of texts from different parts of history and the world. Students show their understanding of texts through reading, discussion, comprehension activities and by writing analytical and creative responses. In addition, they study and analyse the ideas, views, values and narrative techniques in the texts. Students analyse arguments and the use of persuasive language in a range of media texts, and they write their own persuasive responses to a topical media issue. Students improve their ability to use English expression with a focus on reading and refining language conventions to write creative, analytical, and persuasive responses. They undertake regular comprehension and skill building activities, including grammar, vocabulary, spelling, punctuation and writing techniques.

Links to VCE subjects:

- English
- Literature
- English Language

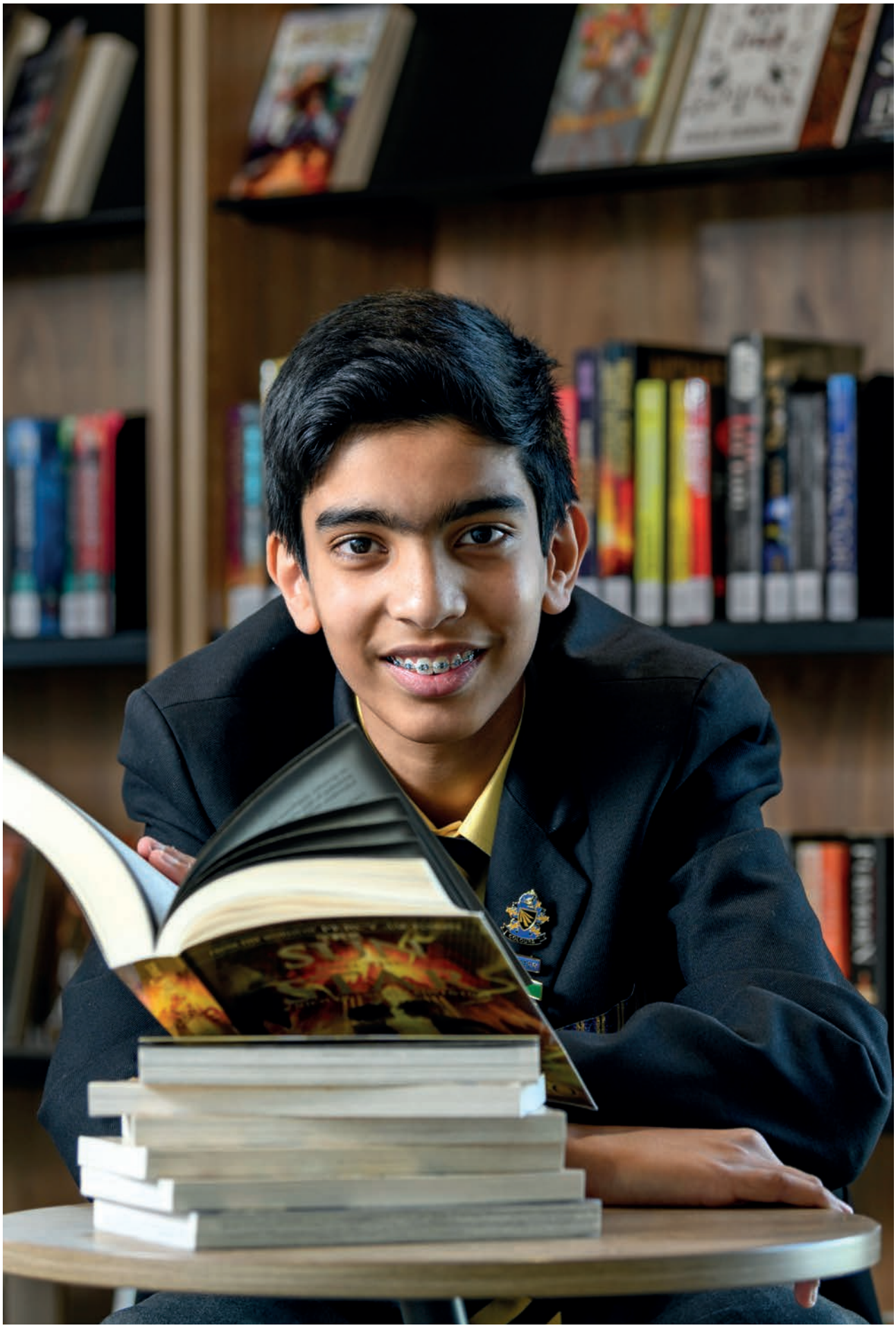
Please note: This subject runs for a full year.

AUSTRALIAN MURDER MYSTERIES IN LITERATURE

In Year 9, students explore Australian fiction and the prevalence of crime fiction in contemporary texts that encourage the voices of popular Australian writers, to include First Nations writing. This subject explores the tropes of crime fiction and its resonance in the Australian physical and cultural landscape. Enabling students to analyse a literary movement that engages them through relatable coming of age ideas that develop concepts relating to self-discovery, the search for truth, and mystery. Students are encouraged to explore how social and cultural settings suggest conflict with broad reaching societal implications through reading of the text and close passage analysis. Students consider cultural values in Australian society through inferential reading of text that explore honesty, humanity, and justice. The subject also extends students through imaginatively creating their own texts to reflect mysterious settings placed in an Australian landscape. They explore the structure for crime fiction writing to extend their own writing style, developing skills that are specific to literary features and devices prominent to this genre.

Links to VCE subjects:

- Literature
- English



Mathematics

Maddingley Contact Person:	Dr Debra Penny (pennyd@bmg.vic.edu.au)
Woodlea Contact Person:	Mr Cameron McGregor (mcgregorc@bmg.vic.edu.au)

MATHEMATICS

All students will complete a common Mathematics course in Semester One Year 9. This course is the study of pattern in number, space, logic and structure. Essential mathematical activities include calculating, proving, applying, investigating, modelling and problem-solving. Students will study Number, Probability, Statistics, Geometry and Measurement.

Links to VCE subjects:

- Mathematics

Please note: This subject runs in Semester One only.

GENERAL MATHEMATICS

During Semester Two, Year 9 students must select either General Mathematics or Mathematical Methods. General Mathematics is more widely accessible and provides for different combinations of student interests. It prepares students for the study of VCE General Mathematics in Year 12 as well as providing essential numeracy skills required for everyday life. Students will study Algebra, Linear Equations and Graphs, Trigonometry, Financial Mathematics and Statistics.

Links to VCE subjects:

- General Mathematics

Please note: This subject runs in Semester Two only.

MATHEMATICAL METHODS

In Semester Two of Year 9, students must select either General Mathematics or Mathematical Methods. Mathematical Methods is a rigorous mathematics course for students who demonstrate higher levels of competency. There is an emphasis on algebraic skills and for students to think mathematically. It prepares students for the study of VCE Mathematical Methods or Specialist Mathematics. Students will study Linear Equations and Graphs, Trigonometry, Algebra and Quadratics.

Links to VCE subjects:

- Mathematical Methods
- Specialist Mathematics
- Chemistry
- Physics

Please note: This subject runs in Semester Two only. It is aimed at students with higher competency levels.

ADVANCED MATHEMATICS

This subject is designed for capable mathematicians who are intending to study VCE Mathematical Methods and potentially Specialist Mathematics. This course introduces advanced concepts and skills, each taken from the VCE Mathematical Methods or Specialist Mathematics curriculum. It therefore acts as a solid preparation for those aiming for high results in Year 12 Mathematics. Students entering this course are expected to have achieved an overall standard of 'B' grades or above in their current Mathematics course. Students will study Matrices, Graph Theory, Vectors, Circular functions and Sequences & series.

Links to VCE subjects:

- Mathematical Methods
- Specialist Mathematics

Please note: This subject runs for one semester. It is important that the student's mathematical ability is strong enough to cope with this level of extension. It is recommended that Year 9 Students choose this option if they wish to pursue Year 10 Advanced Mathematics in the following year.

VCE Acceleration in Mathematics

GENERAL MATHEMATICS UNITS 1 AND 2 (MADDINGLEY AND WOODLEA INVITE ONLY)

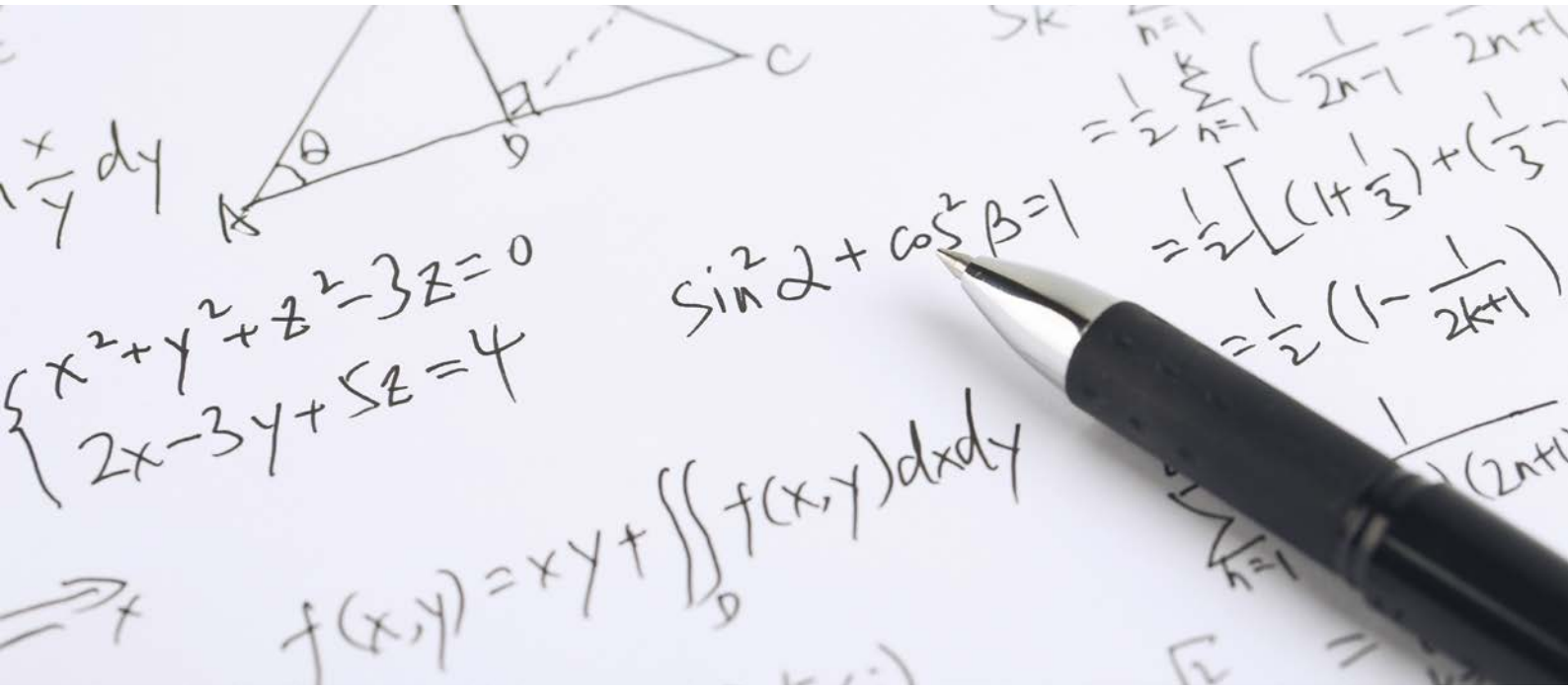
General Mathematics provides for different combinations of student interests and preparation for the study of General Mathematics Unit 3 and 4. The areas of study for General Mathematics Unit 1 and Unit 2 are: 'Data analysis, probability and statistics', 'Algebra, number and structure', 'Functions, relations and graphs', 'Discrete mathematics' and 'Space and measurement'.

In undertaking these units, students are expected to be able to apply techniques, routines and processes involving rational and real arithmetic, sets, lists and tables and matrices, diagrams and geometric constructions, algebraic manipulation, recurrence relations, equations and graphs. They should have facility with relevant mental and by-hand approaches to estimation and computation. The use of technology is incorporated throughout each unit as applicable.

Links to VCE subjects:

- Unit 3 and 4 General Mathematics

Please note: This subject runs for a full year.



Humanities

Maddingley Contact Person:	Mr Lyndon Pratt (prattl@bmg.vic.edu.au)
Woodlea Contact Person:	Ms Molly Fitzgerald (fitzgeraldm@bmg.vic.edu.au)

History

AUSTRALIA AND THE WORLD WARS

Students examine the major themes and principal events of both World Wars, with a focus on how these monumental conflicts shaped Australia. Students study key events during World War I such as the Gallipoli campaign and explore how the mythology of the Anzac legend was born. Following this, students explore the causes and consequences of World War II with a specific focus on the Pacific Theatre. Throughout these units, students gain a deeper understanding of how both wars transformed the nation forging a unique identity.

Links to VCE subjects:

- History: Modern
- History: Empires
- History: Australian
- History: Revolutions
- Politics

Please note: This subject runs for one semester.

AUSTRALIA: A CHANGING NATION

Students will explore defining moments in the history of our nation such as the experiences of Chinese miners on the goldfields, campaigns such as the Indigenous Civil Rights Movement, and the experiences of migrants post-World War Two. Students will chart the end of the White Australia Policy and explore how migration has changed Australia. As students develop their understanding of Australia's past, they will also gain valuable skills in areas such as source analysis and essay writing.

Links to VCE subjects:

- History: Modern
- History: Empires
- History: Australian
- History: Revolutions
- Legal Studies
- Politics

Please note: This subject runs for one semester.

Geography

GEOGRAPHY

In this subject, students explore biomes and food security. They also examine differences in human wellbeing at a global, national and local scale. Students collect, explore and analyse data relating to human and environmental issues, such as well-being, food security, climate change (including natural hazards), and conflict. They examine each issue's role in changing human well-being over time. In addition, students consider responses from various governments and people and evaluate these responses from a sustainability perspective

Links to VCE subjects:

- Environmental Science
- Geography

Please note: This subject runs for one semester.

Ethics

ETHICS

How do we make moral decisions and ensure that we maintain an ethical society that is fair and just? In Ethics, students will gain an understanding of, and empathy for, the many complex issues and decisions that face society. Topics covered include theoretical foundations of ethical thinking, ethical debates, morality in society, and dominant and emerging social values. Students will complete tasks that complement classroom discussions of historical and contemporary ethical issues.

Links to VCE subjects:

- English/Literature
- History
- Art

Please note: This subject runs for one semester.

VCE Acceleration in Humanities

HISTORY UNITS 1 AND 2 (MADDINGLEY INVITE ONLY)

In this subject, students complete Unit 1 & 2 History, exploring how great powers have sought to change the world around them and the challenges they faced. In Unit 1, students study the Spanish Empire, investigating its foundations and features and the significant global changes it brought to the wider world in the early modern period. In Unit 2: Modern History, students investigate the nature and impact of the Cold War and civil rights campaigns in the second half of the 20th century. By exploring the challenges and changes to social and political structures and systems of power in both of these contexts, students gain an understanding of how the modern world was built.

Links to VCE subjects:

- Unit 3 and 4 History: Australian
- Unit 3 and 4 History: Revolutions

Please note: This subject runs for a full year.

Commerce

Maddingley Contact Person:	Mr Jacob Chisari (chisarij@bmg.vic.edu.au)
Woodlea Contact Person:	Ms Molly Fitzgerald (fitzgeraldm@bmg.vic.edu.au)

GLOBAL CITIZENSHIP AND DEMOCRACY

Who holds power in Australia and how is that power distributed and used? Students will explore this question throughout this course as they explore Australia's place in the globe as a modern democracy. Students will develop an understanding of political philosophy and the origins of Democracy with a focus on Australia's democratic system. Students also gain an understanding of human rights, the purpose of the United Nations and the importance of global citizenship. In addition, they also develop an understanding of the implications of Transnational Corporations and the challenges posed to maintain equality and uphold human rights. Students analyse case studies and scenarios in order to demonstrate connections to current events.

Links to VCE subjects:

- Politics
- Legal Studies
- History
- Geography

Please note: This subject runs for one semester.

PERSONAL FINANCE

Personal Finance will aid students in developing crucial skills, including awareness of financial literacy and financial planning. Students examine a range of issues concerning money and financial choices, exploring realistic contexts and scenarios. Students gain an understanding of the relevance and importance of managing their personal finances. They learn a range of budgeting techniques and strategies in relation to spending, borrowing and investing money wisely. This is a subject that teaches real life skills.

Links to VCE subjects:

- Business Management
- Accounting

Please note: This subject runs for one semester.

VCE Acceleration in Commerce

LEGAL STUDIES UNITS 1 AND 2 (WOODLEA INVITE ONLY)

Legal Studies examines the institutions and principles that are essential to the Australian legal system. Students develop an understanding of the rule of law, law-makers, legal institutions, the relationship between the people and the Australian Constitution, the protection of rights in Australia, and the Victorian justice system.

Through applying knowledge of legal concepts and principles to a range of actual and / or hypothetical scenarios, students develop an ability to use legal reasoning to argue a case for or against a party in a civil or criminal matter. They develop an appreciation of the ability of people to actively seek to influence changes in the law and analyse both the extent to which our legal institutions are effective, and whether the Victorian justice system achieves the principles of justice.

Links to VCE subjects:

- Unit 3 and 4 Legal Studies

Please note: This subject runs for a full year.

Languages

Maddingley Contact Person:	Mr Duncan Malcolm (malcolmd@bmg.vic.edu.au)
Woodlea Contact Person:	Mr Shingo Gibson-Suzuki (gibsonsuzukis@bmg.vic.edu.au)

FRENCH

This subject develops the students' ability to understand spoken and written French and also provides students with a direct means of access to the rich and varied cultures of Francophone communities around the world. Studying a language other than English contributes markedly to the overall education of students in the areas of communication, cross-cultural understanding, cognitive development, literacy and general knowledge. A second language is highly valued by universities, desired by employers, and future workplaces will be global ones. Students studying Year 9 French will focus on topics such as learning about Francophone countries and comparing France and Australia, Entertainment: film and music, Advertising, Technology, and Issues which affect teenagers. Students will work in Present, Perfect and Imperfect tenses, use modal verbs and extend their grammatical knowledge of various pronouns in French, question forms, comparatives, superlatives and adjectives. They will further develop their skills in listening, and speaking, grammar, reading and writing.

Links to VCE subjects:

- French

Please note: This subject runs for a full year.

Pre-requisite subjects: Students must have studied French in Year 8 to select this subject in Year 9.

JAPANESE

Students work through a range of topics including 'Growing up and Milestones,' 'Nationalities and Languages,' 'Fast food in Japan and Australia,' 'Shopping,' 'Making Plans' and 'City and Country life.' Students will broaden their knowledge of basic Japanese grammar, including the past tense of verbs and adjectives, comparative structures, making polite invitations, giving directions and the use of prepositions. Students learn 23 new kanji characters, as well as consolidate their understanding of katakana characters. Students also develop their skills in reading, writing, speaking, and listening while discussing and learning about elements of traditional and modern culture of Japan.

Links to VCE subjects:

- Japanese

Please note: This subject runs for a full year.

Pre-requisite subjects: Students must have studied Japanese in Year 8 to select this subject in Year 9.

INDONESIAN (MADDINGLEY ONLY)

The Year 9 Indonesian program offers students the opportunity to develop their language skills and their cultural understanding of Indonesia. Continuing to learn this language will provide students with essential communication skills, an intercultural capability and an understanding of the role of language and culture in human communication. Students will study specific topics including entertainment, holidays, celebrations and the environment.

Links to VCE subjects:

- Indonesian

Please note: This subject runs for a full year.

Pre-requisite subjects: Students must have studied Indonesian in Year 8 to select this subject in Year 9.

Science

Maddingley Contact Person:	Miss Sarah Thomson (thomsons@bmg.vic.edu.au)
Woodlea Contact Person:	Mr Ben Northcott (northcottb@bmg.vic.edu.au)

SCIENCE (CORE)

Students in Year 9 Science will complete an integrated science program to extend their Science understanding in the Biological, Environmental, Chemical, and Physical Sciences. Throughout the semester they will focus on science inquiry skills through the scientific method of developing investigable questions and communication. Students will be provided the opportunities to explain how scientific knowledge is validated and refined and they will analyse the difference ways in which science and society are interconnected.

Please note: This subject runs for one semester.

PHYSICS AND CHEMISTRY: THE STUDY OF LIGHT AND MATTER

Physics is the study of the properties, changes and interactions of matter and energy. This unit investigates how energy is related to light and the origins of the Universe. Students will learn how the big bang theory models the origin and evolution of the universe and analyse the supporting evidence for the theory. They will discuss the wave and particle models of energy transfer for understanding light, investigate the electromagnetic spectrum with a focus on the visible region of light and other forms of electromagnetic radiation. They will also learn how natural radioactive decay will be described to see how this results in stable atoms, including the understanding of isotopes and radiocarbon dating. Students will also learn of the factors that affect the rates of chemical reactions.

Links to VCE subjects:

- Chemistry
- Physics

Please note: This subject runs for one semester.

Before completing Chemistry Pre-VCE it is recommended that you complete either Environmental Chemistry or Physics and Chemistry: The Study of Light and Matter.

Before completing Physics Pre-VCE it is recommended that you complete Physics and Chemistry: The Study of Light and Matter.

CHEMISTRY IN NATURE

Chemistry in Nature explores how chemical principles explain natural processes and support sustainable practices. Students will study the structure, properties, and transformations of matter, focusing on chemical reactions in both natural and industrial contexts. The subject examines Earth as a chemical system, highlighting interactions between the lithosphere, hydrosphere, atmosphere, and biosphere. Key processes such as photosynthesis, respiration, and combustion are analysed within the carbon cycle. Students will apply the law of conservation of mass and evaluate the environmental impact of chemical reactions, especially those driven by human activity. The role of carbon dioxide in the greenhouse effect is explored to understand how chemistry helps regulate Earth's climate.

Links to VCE subjects:

- Chemistry
- Environmental Science

Please note: This subject runs for one semester.

Before completing Chemistry Pre-VCE it is recommended that you complete either Chemistry in Nature or Physics and Chemistry: The Study of Light and Matter.

Before completing VCE Environmental Science it is recommended that you complete Chemistry in Nature or Environmental Science Pre-VCE.

HEALTH AND DISEASE

Biology is the study of life and we live in the age when the focus on health and the way to minimise disease is paramount. Students learn about various types of pathogens and microbial techniques that assist in the identification of disease. The immune system is explored and students discover how the human body fights diseases. Prevention and treatment of diseases are also covered in this subject.

Links to VCE subjects:

- Biology

Please note: This subject runs for one semester. Before completing VCE Biology it is recommended that you complete either Biology Pre-VCE or Health and Disease.

DEVELOPMENTAL PSYCHOLOGY

This course aims to provide foundation knowledge of psychological human development and research methods used in this area. The physical, social, cognitive, and personal aspects of development across the lifespan are considered, taking into account individual differences and the factors that shape our own identity. Theories, models and concepts using the biopsychosocial framework will be drawn upon so that students develop a scientific understanding of the viewpoints affecting human development.

Links to VCE subjects:

- Health and Human Development
- Psychology

Please note: This subject runs for one semester. Before completing VCE Psychology it is recommended that you complete either Developmental Psychology or Psychology Pre-VCE.

ASTRONOMY

Students will develop an understanding of different types of celestial objects and how we make observations from earth. They will learn how different types of telescopes work and how we use them to observe objects in the sky. Students will also undertake a study of planets and moons, including those in our own solar system and how we detect exoplanets around other stars. They will look into the structure of our universe and investigate different types of stars, their life cycle.

Links to VCE subjects:

- Physics

Please note: This subject runs for one semester.

Science *(Cont.)*

HORTICULTURE (MADDINGLEY ONLY)

The Horticultural Studies elective takes an interdisciplinary approach to the exploration of food and fibre production, with an overarching focus on land cultivation and the raising of plants and animals through evidence-based, sustainable and ethical practices. Students consider the role of horticulture from local, state, national and global perspectives.

The interdisciplinary nature of the elective enables students to develop their decision-making and problem-solving skills by applying scientific methods of testing and monitoring, collecting and analysing relevant data, and researching current issues and best-practice case studies. Students conduct primary and secondary research to design and evaluate sustainable practices, understand challenges and current issues, propose solutions and determine best practice.

Practical tasks are integral to Horticultural elective and may include: plant and/or animal management; scientific trials, experiments and data analysis; business or entrepreneurial practices including value-adding activities; investigative reporting on best practice; and virtual reality experiences.

The elective is based at the Staughton Vale Campus, and follows a VET style approach of a one day immersion model.

Links to VCE subjects:

- VET

Please note: This subject runs for one semester.

PRINCIPLES OF AVIATION (WOODLEA ONLY)

In Principles of Aviation students are introduced to unmanned aircraft and the safety operation laws as enforced by CASA. Students are taught a variety of manoeuvres in the operation of drones, including launch, hover, recover, and flying in vertical and horizontal rectangles. Students learn the chemistry of rechargeable batteries and consider the broader implications of the aviation industry on the environment including methods of improving the sustainability aircraft. In POA students will learn how the weather can impact the safe operations of aircraft, and how to interpret Mean Sea Level charts as well as meteorological forecasts and reports.

Links to VCE subjects:

- Chemistry
- Physics
- Environmental Science
- Geography
- Systems Engineering

Please note: This subject runs for one semester.

BIOLOGY PRE-VCE

Biology is the science of living things. Living things have found ways to live in all the habitats found on Earth. Biology is the study of these organisms and the strategies that they have evolved to enable them to survive and interact with the non-living environment. This subject is designed to prepare students for the study of Biology at VCE level and provides them with the fundamentals of study in terms of content knowledge and skills.

Links to VCE subjects:

- Biology

Please note: This subject runs for one semester. Before completing VCE Biology it is recommended that you complete either Biology Pre-VCE or Health and Disease.

ENVIRONMENTAL SCIENCE PRE-VCE

Environmental Science Pre-VCE provides the opportunity for students to understand the structure, function and diversity of natural ecosystems on this planet and evaluate the impact of human activities on them. Students examine strategies to maintain and protect the ecological health of the environment while meeting the needs and desires of human populations. Environmental Science investigates the interactions between natural and human systems. Students study the Earth's spheres and how they interact with biogeochemical cycles. They also gain practical experience in monitoring ecosystems.

Links to VCE subjects:

- Environmental Science
- Geography

Please note: This subject runs for one semester.

Before completing VCE Environmental Science it is recommended that you complete Environmental Science Pre-VCE.

PSYCHOLOGY PRE-VCE

Psychology Pre-VCE introduces students to the study of human behaviour and mental processes. Students explore the various theories and scientific skills related to cognitive psychology. Students develop an understanding of the brain and the connection between psychological theories and the real-world applications. Students have the opportunity to design and conduct first-hand investigations into human behaviour.

Links to VCE subjects:

- Psychology

Please note: This subject runs for one semester.

Before completing VCE Psychology it is recommended that you complete Psychology Pre-VCE.

VCE Acceleration in Science

ENVIRONMENTAL SCIENCE UNITS 1 AND 2 (MADDINGLEY AND WOODLEA INVITE ONLY)

VCE Environmental Science enables students to understand Earth as a set of four interdependent systems: the atmosphere, biosphere, hydrosphere and lithosphere. Students explore how the relationships between these systems produce environmental change over a variety of time scales. They investigate the extent to which humans modify their environments and the consequences of these changes in local and global contexts with a focus on pollution, biodiversity, energy use and climate change.

An important feature of VCE Environmental Science is the opportunity for students to undertake laboratory investigations, fieldwork that may also involve the use of technologies and sampling techniques, case studies, simulations and practical investigations. Students pose questions, formulate hypotheses, collect and analyse data, evaluate methodologies and results, justify conclusions and communicate their findings. They investigate and evaluate issues, changes and alternative proposals by considering both longer and shorter term consequences for the individual, the environment and society. In Units 1 and 2, students study the following: How are Earth's systems connected? How can pollution be managed?

Links to VCE subjects:

- Unit 3 and 4 Environmental Science

Please note: This subject runs for a full year.

Physical Education and Health

Maddingley Contact Person:	Ms Tenielle Brown (brownt@bmg.vic.edu.au)
Woodlea Contact Person:	Mr Evan Long (longe@bmg.vic.edu.au)

PE/HEALTH

Health and Physical Education empowers students to develop the skills, understanding, and motivation needed to positively impact their own health and wellbeing, as well as that of their communities. Through this subject, students will learn to assess their own fitness and physical activity levels, while identifying factors that influence their motivation to stay active.

Students will master complex movement and manipulative skills and evaluate individual and group tactics and movement patterns in various activities, including fitness, throwing and catching sports, kicking sports, and racquet sports. They will explore the concepts and dimensions of health and wellbeing, gaining a comprehensive understanding of what contributes to a healthy lifestyle.

Additionally, students will examine different types of relationships, learning to recognise the characteristics of healthy and respectful relationships. They will explore diverse identities and discuss strategies for challenging biases and promoting inclusion. The curriculum also covers health and sexuality, with a focus on topics relevant to young people, such as respectful relationships, contraception, and sexually transmitted infections.

Links to VCE subjects:

- Physical Education
- Health and Human Development

Please note: This subject runs for a semester

SPORTS PERFORMANCE

This course is aimed at providing students with both theoretical and practical insight into fields of Exercise and Sport Science such as physiology and sport psychology. Students will study the components of fitness, psychological strategies to enhance performance, as well as training methods and training principles. The topics covered will enable students to prepare for VCE Physical Education as well as assisting students to develop an understanding of the human body and skills that will allow them to improve their level of fitness and sporting performance.

Links to VCE subjects:

- Physical Education

Please note: This subject runs for one semester.

OUTDOOR EDUCATION

This course explores a range of outdoor environments whilst focusing on human interactions across these environments. Students will engage in practical experiential learning, drawing on the curriculum explored in class. These practical experiences may include recreational and adventurous activities that explore interactions between the different environment types, with an outlook in conservation and sustainability. This subject allows students have an introduction into the VCE Outdoor and Environmental Studies Unit 1-4 curriculum and gain an understanding of the knowledge and skills required in this subject area.

Links to VCE subjects:

- Outdoor and Environmental Studies

** A subject levely applies. Please refer to the 2027 Business Notice for details.*

ELITE SPORTS TRAINING (MADDINGLEY INVITE ONLY)

Elite Sports Training is a course consisting of two elective units of study, each with a duration of one semester. Students will gain an understanding of the importance of specific strength and conditioning programs and exercises for athletes within chosen sports. They will learn to identify and explain the relationship between physical activity, muscle fatigue and recovery. Students will also identify the need for specific lifting programs to improve sporting performance. Muscular skeletal screenings as well as prehabilitation and rehabilitation programs will also be a focus for all athletes.

Links to VCE subjects:

- Physical Education

Please note: This subject runs for one semester. This is a selection based subject and is aimed at elite sports athletes. Completion of a fitness test and a written application prior to acceptance is compulsory.

ELITE SPORTS TRAINING (WOODLEA INVITE ONLY)

The Elite Sports Program is designed to equip students with the skills, knowledge, and inspiration necessary to excel in various sporting disciplines. By engaging with top-tier training programs and interacting with professional athletes and experts, students will gain a comprehensive understanding of elite sports performance and its multifaceted components. Students will participate in strength and conditioning sessions facilitated by Western United Football Club, where they will learn to develop their physical fitness and athletic expertise. The program includes mentorship and coaching sessions with various professional sportsmen and sportswomen from the Woodlea Soccer Academy. Through these theoretical and practical experiences, students will be able to assess and refine their fitness levels, understand the importance of periodised training, and apply techniques used by professional athletes to enhance their performance.

Links to VCE subjects:

- Physical Education

Please note: This subject runs for one semester. This is a selection based subject and is aimed at elite sports athletes. Completion of a fitness test and a written application prior to acceptance is compulsory.

VCE Acceleration in Physical Education and Health

HEALTH AND HUMAN DEVELOPMENT UNITS 1 AND 2 (MADDINGLEY INVITE ONLY)

VCE Health and Human Development takes a broad and multidimensional approach to defining and understanding health and wellbeing. Students investigate the World Health Organization's definition and other interpretations of health and wellbeing. Students examine health and wellbeing and human development as dynamic concepts, subject to a complex interplay of biological, sociocultural and environmental factors, many of which can be modified by healthcare and other interventions. Students consider the interaction of these factors, with particular focus on the social factors that influence health and wellbeing.

Students consider Australian and global contexts as they investigate variations in health status between populations and nations. They look at the Australian health care system and research what is being done to address inequalities in health and development outcomes. They examine and evaluate the work of global organisations such as the United Nations and the World Health Organization, as well as non-government organisations and the Australian government's overseas aid program. In Units 1 and 2, students study the following: Understanding Health and Wellbeing and Managing Health and Development.

Links to VCE subjects:

- Unit 3 and 4 Health and Human Development

Please note: This subject runs for a full year.

Visual Arts

Maddingley Contact Person:	Mrs Peta Griffith (griffithp@bmg.vic.edu.au)
Woodlea Contact Person:	Mr Anthony Cunsolo (cunsoloa@bmg.vic.edu.au)

ART MAKING & EXHIBITING

In this subject, students are given opportunities to engage with various materials, techniques, and art forms. Students will investigate the way backgrounds, experiences, identity, stories, feelings, fears and interests drives art making. Students will learn about the use of aesthetic qualities within an artist's life journey. Students will create a theme-based folio, exploring a chosen artform and subject matter. Finally, students step into the role of curator by prepare their work for exhibition.

Links to VCE subjects:

- Art Making and Exhibiting

Please note: This subject runs for one semester.

PHOTOGRAPHY

This subject encourages students to explore the concepts and techniques associated with photography and digital art through the studio process. Students learn to use specialist digital photography equipment and software to develop their knowledge of subject matter, influences, and sources of inspiration in the creation of their own artworks. Students develop an understanding of photography as an art form through creating their own work and analysing the work of photographic artists. They explore the rapidly developing field of digital art and investigate the ways in which new technologies can influence contemporary art forms.

Links to VCE subjects:

- Art Making and Exhibiting
- Media

Please note: This subject runs for one semester.

VISUAL COMMUNICATION DESIGN

Visual Communication Design is distinct in its study of visual language and the role it plays in communicating ideas, solving problems and influencing behaviours. They choose and combine manual and digital methods, media and materials with design elements and principles to specific contexts, purposes and audiences. Creative, critical and reflective thinking techniques support students to progress through a design process as they generate and develop ideas for their folio working to a set brief. Throughout the semester students explore manual and digital methods using industry standard software from the Adobe Creative Cloud, preparing them for VCE Visual Communication Design.

Links to VCE subjects:

- Visual Communication Design

Please note: This subject runs for one semester.

MEDIA STUDIES

In Year 9 Media Studies, students explore how media shapes the way we see people, places and ideas. They learn how stories are constructed using media codes and conventions, and how audiences interpret meaning. Students analyse a range of media texts and representations, focusing on genre and narrative.

They also plan and create their own media product, working through the stages of the production process. Students are introduced to industry-standard tools and develop practical skills in areas such as editing, design and camera work. Creativity, collaboration and critical thinking are at the core of this subject.

This is an ideal subject for students interested in storytelling, design, film, print or digital media.

Links to VCE subjects:

- Media

Please note: This subject runs for one semester.

Design and Technology

Maddingley Contact Person:	Mrs Jacinta Davie (daviej@bmg.vic.edu.au) Food & Hospitality - Ms Vanessa McCarthy (mccarthyv@bmg.vic.edu.au)
Woodlea Contact Person:	Mr Vishrut Gupta (guptav@bmg.vic.edu.au)

When selecting a Technology subject, please be aware that students may be required to use a range of hand tools, portable power tools, and machinery (plant) as part of their learning.

To ensure safety and responsible use, all students must complete a workshop induction and a Safe Use Competency Test before using any plant or portable power tools. These assessments are conducted for each relevant tool or piece of equipment students will use in the Technology area. Further information will be provided to students who enroll into a Technology subject.

Design Technology

ENGINEERING: CAD/CAM

Computer Aided Design (CAD) is used for creating visual and spatial information in industrial, mechanical, construction, manufacturing, architectural 3D games and many other design fields. CAD is an essential tool used to explore both form and function of design ideas. Computer Aided Manufacturing (CAM) is used to manufacture the CAD product. 3D printing, Laser Cutting and CNC routing (Maddingley only) are examples of CAM that students can access to fabricate their designed products. This course enables students to create 3D computerized designs and fabricate a prototype or final product. Students will complete a number of CAD and CAM projects while using the Design Technology process of investigating, designing, producing and evaluating. Students will use a journal to record all steps involved in the production sequence: research, sample pieces, final product and a product self-evaluation.

Links to VCE subjects:

- Systems Engineering
- Product Design & Technology: Furniture
- Product Design & Technology: Textiles
- Visual Communication Design

Please note: This subject runs for one semester.

PRODUCT DESIGN: TEXTILES

In this subject, students discover the origins and environmental impacts of natural and man-made fibres. Through practical experiences using a range of equipment, students develop both hand and machine sewing skills. Students use and modify commercial patterns, draft their own patterns and develop an understanding of the properties of various materials. Students create process samples and document idea development in a design folio to demonstrate an understanding of the product design process. Students complete two practical tasks – a cushion and a pair of pyjamas – and undertake research into dyeing methods, such as using indigo dye and Japanese shibori methods.

Links to VCE subjects:

- Product Design & Technology: Furniture
- Product Design & Technology: Textiles

Please note: This subject runs for one semester

PRODUCT DESIGN: FURNITURE

Product Design – Furniture aims to develop a student's foundation woodworking skills with a focus on the design and production of functional objects. Students will develop essential fundamental woodworking skills and manufacturing techniques. Students will complete a number of design projects while using the design technology process of investigating, designing, producing and evaluating. Students will use a journal to record all steps involved in the production sequence: research, sample pieces, a final product and a product self-evaluation.

Links to VCE subjects:

- Product Design & Technology: Furniture
- Product Design & Technology: Textiles

Please note: This subject runs for one semester.

ENGINEERING: MECHATRONICS

The Mechatronic Systems course is a sample of VCE Systems Engineering, requiring students to draw on theory of mechanical and electronic principles to design an integrated system that solves a real-world problem. Students will design products with electronic and control circuitry that interacts with humans and/or its environment, while using the Design Technology process of investigating, designing, producing and evaluating. Students will use a journal to record all steps involved in the production sequence: research, sample pieces, final products and a product self-evaluation. Examples of past student work include a Theremin synthesizer, an Automatic dog feeder, a James Turrell inspired light installation, a car park reversing sensor system and a Retro arcade gaming booth.

Links to VCE subjects:

- Systems Engineering
- Physics
- Product Design & Technology: Furniture
- Product Design & Technology: Textiles

Please note: This subject runs for one semester.

DESIGN AND TECHNOLOGY: HOUSING

Design and Technology - Housing provides an opportunity for students to explore the materials, engineering principles, aesthetics and sustainability factors influencing the design and construction of housing. Students use STELR sustainable housing kits to collect data demonstrating the influence of common building materials and building orientation on energy efficiency. Students conduct research into Australian historical and contemporary architectural designs and materials, including traditional indigenous housing. Students undertake a major design project, creating their own housing design in response to a design brief. Students record creative and critical thinking techniques in a design folio, demonstrating their exploration of the design process. Computer aided design (CAD) software is used to develop original housing designs leading students to create a 3D mock-up of their original housing design solution.

Links to VCE subjects:

- Systems Engineering
- Product Design & Technology: Furniture
- Product Design & Technology: Textiles

Please note: This subject runs for one semester.

Design and Technology *(Cont.)*

FLIGHT TECHNOLOGY (MADDINGLEY ONLY)

Flight Technology is an introductory course that engages students in the science and engineering of aerial vehicles. Combining elements of Design Technology and Science, the course enables students to explore the fundamental principles of flight through the design, construction, and testing of both powered and unpowered aircraft. Students learn key concepts such as aerodynamics, engineering design, rapid prototyping, and problem-solving. Students utilise specialist flight simulation software to plan, build, and test prototypes in a virtual environment before progressing to physical construction. Throughout the course, students undertake a series of structured flight projects, applying the Design Technology process: investigating, designing, producing, and evaluating. Each student maintains a detailed journal documenting every stage of their work, from initial research and sample testing to final product development and self-evaluation. This subject provides a dynamic and engaging platform for students to develop critical thinking, creativity, and technical skills while deepening their understanding of flight technologies.

Links to VCE subjects:

- Systems Engineering
- Product Design & Technology: Wood
- Physics

Please note: This subject runs for one semester.

Food and Hospitality

FOOD TECHNOLOGY (MADDINGLEY ONLY)

Year 9 Food Studies aims to extend on the skills and knowledge acquired in the previous subject of Food Studies in Years 7 & 8, further developing life skills in food selection and preparation. Students will develop an understanding of common ingredients used in cooking and recipes associated with Multicultural cuisine.

During the practical sessions student focus on food safety and hygiene and produce a variety of recipes individually and with a partner. Students will work with design briefs and learn to select recipes that meet these scenarios which may include the dietary needs of particular groups in our society.

Links to VCE subjects:

- Food Studies
- VCE VET Hospitality

Please note: This subject runs for one semester.

HOSPITALITY CAFÉ (WOODLEA ONLY)

In Hospitality Café, students learn and develop the skills required to work in the hospitality industry. Skills taught include espresso coffee making, preparing non-alcoholic beverages, cash handling, and providing advice to customers on dietary requirements and food service skills. Students complete a number of theoretical and practical tasks to demonstrate their underpinning knowledge and learn the techniques and processes required to work in a café or restaurant.

Links to VCE subjects:

- VCE VET Hospitality

Please note: This subject runs for one semester. It is highly recommended that this subject is completed if considering VCE VET Hospitality.

HORTICULTURE (MADDINGLEY ONLY)

The Horticulture elective takes a hands-on approach to exploring sustainable food and fibre production, with a strong focus on growing, harvesting and understanding fresh produce from paddock to plate. Students investigate how food is cultivated and produced through sustainable, ethical and innovative farming and horticultural practices.

The elective explores the important role horticulture plays in feeding communities locally, nationally and globally, while also examining future challenges in food security, sustainability and environmental stewardship. Students develop practical problem-solving and decision-making skills through real-world food production experiences, research projects and industry-inspired learning activities.

Students participate in a range of practical and immersive tasks that may include vegetable and herb production, seed propagation, plant care and maintenance, soil improvement, sustainable growing practices, food harvesting and value-adding activities connected to fresh produce and food systems. Students may also investigate agricultural enterprises, explore emerging technologies in food production and engage with case studies focused on best-practice horticulture and sustainable farming.

The elective is delivered across both the Maddingley and Staughton Vale Campuses, with one classroom-based lesson and one double period conducted at Maddingley, complemented by a double period of practical, hands-on learning at the Staughton Vale Farm Campus. This structure provides students with authentic experiences in food production, horticulture and sustainable farming practices within a real-world environment.

Links to VCE subjects:

- Food Technology

Please note: This subject runs for one semester.

Digital Technology

COMPUTING - FUNDAMENTALS

ICT is a huge industry in Australia and worldwide and there is a growing demand across all industries. In this subject, students explore cyber security, game development and programming. In this subject, students explore industry fundamentals to increase their awareness of different opportunities. As well as an introduction to coding at a beginner's level. Students will also create computer games using code and develop skills to manage their final project using a project methodology improving both their organisation and collaboration skills.

Links to VCE subjects:

- Applied Computing
- Systems Engineering

Please note: This subject runs for one semester

Performing Arts

Maddingley Contact Person:	Music - Mr Aaron Marshall (marshalla@bmg.vic.edu.au) Dance/Drama - Ms Elyse Zahra (zahrae@bmg.vic.edu.au)
Woodlea Contact Person:	Music - Ms Suzanne Kinsella (kinsellas@bmg.vic.edu.au)

DANCE CREATION

Dance Creation in Years 9 and 10 offers students a deeper exploration into the choreographic process and the creative foundations of dance-making. This subject builds on performance and technical skills while challenging students to take greater ownership of their artistic voice. Through a combination of practical and theoretical learning, students examine the work of key dance pioneers, exploring their stylistic influence and choreographic contributions to the dance world. Students will engage in the full choreographic process—researching, planning, creating, rehearsing, and performing their own original works. They will learn to analyse and reflect on their creative decisions, movement vocabulary, choreographic devices, and performance outcomes. This subject fosters independence, collaboration, and a deeper appreciation for dance as a powerful form of artistic communication and expression.

Links to VCE subjects:

- VCE Dance

Please note: This subject runs for one semester. Students should have some prior dance or movement experience before selecting it. Students wishing to pursue VCE Dance in the future are advised to select *Dance Creation* and *Dance Design* in 2027, leading into *VCE Dance Units 1 & 2* in 2028.

DANCE DESIGN

Dance Design in Years 9 and 10 empowers students to explore the artistic and technical components that bring a dance performance to life. In this subject, students investigate how movement, intention, formal structure, and production elements work together to create meaning and impact an audience. They will learn and perform choreographed works, develop their own original choreography, and apply production design concepts such as lighting, costume, sound, and staging to enhance their creative vision. Through both practical and theoretical tasks, students analyse professional dance works, deepening their understanding of choreographic devices, movement categories, and the elements of movement. They will also reflect critically on their own creative process, from initial planning through to performance. Dance Design offers a unique opportunity for students to build confidence as performers, choreographers, and designers—developing skills that are essential for both stage and studio.

Links to VCE subjects:

- VCE Dance

Please note: This subject runs for one semester. Students should have some prior dance or movement experience before selecting it. Students wishing to pursue *VCE Dance* in the future are advised to select *Dance Creation* and *Dance Design* in 2027, leading into *VCE Dance Units 1 & 2* in 2028.

DEVISED DRAMA

Devised Drama encourages students to explore the creative possibilities of collaborative theatre-making through the use of dramatic elements and play-making techniques. Students work in ensembles to devise original performance pieces inspired by a variety of stimuli, drawing on contemporary and socially relevant themes. This course places strong emphasis on creative risk-taking, experimentation, and storytelling through physical and verbal expression. Students also engage with the practice of Verbatim Theatre, researching real-life stories to develop ethically informed scripts and performances that highlight community voices. Critical reflection is embedded throughout, with students analysing their own creative processes and performances alongside professional works. By attending and evaluating a professional theatre production, students develop analytical skills and theatre vocabulary to articulate their understanding of performance style, dramatic intention, and production elements. This academic language supports their growth across VCE Drama and other subjects requiring critical thinking.

Links to VCE subjects:

- VCE Drama

Please note: This subject runs for one semester. Students wishing to pursue *VCE Drama* in the future are advised to select *Devised Drama* and *Drama Performance* in 2027, leading into *VCE Drama Units 1 & 2* in 2028.

DRAMA PERFORMANCE

Drama Performance focuses on the exploration of distinctive theatre styles and performance techniques that challenge students to stretch their expressive and physical capacities. Students study influential forms such as Epic Theatre and Theatre of Cruelty, learning how these styles use movement, narration, and sensory elements to communicate powerful messages. Through practical workshops and devised performance tasks, students develop an understanding of how dramatic conventions shape audience experience. They are encouraged to take creative risks while honing skills in characterisation, storytelling, and ensemble collaboration. Students also attend and critically analyse a professional theatre performance, refining their ability to discuss the impact of theatrical choices using precise terminology. This course fosters students' confidence as performers and thinkers, providing a strong foundation for further study in VCE Drama and performance arts.

Links to VCE subjects:

- VCE Drama

Please note: This subject runs for one semester. Students wishing to pursue *VCE Drama* in the future are advised to select *Devised Drama* and *Drama Performance* in 2027, leading into *VCE Drama Units 1 & 2* in 2028.

MUSIC PERFORMANCE I

Year 9 Music Performance supports students in developing both their practical performance skills and their overall music literacy. Students refine their performance craft through individual practice and class ensemble work, while also extending their understanding of music analysis, arrangement, and dialogue creation. Throughout the course, students begin to cultivate a personal musical style and become increasingly independent in exploring, developing, and refining their instrumental skills. Performance opportunities form an essential part of the program and are assessed regularly.

Pre-requisite: Students are encouraged to engage in private music tuition for their chosen instrument (including voice) and should continue private lessons throughout the course. Ideally, students should complete all four semesters of Music (Year 9-10) consecutively to ensure ample preparation for VCE/VET Music Industry (Performance) coursework.

Links to VCE subjects:

- Music Industry

Please note: This subject runs for one semester.

MUSIC PERFORMANCE II

Music Performance II builds on the foundation established in Music Performance I, further developing students' skills in both music performance and music literacy. Students continue to refine their performance craft through individual practice and ensemble work, while deepening their understanding of music analysis, arrangement, and dialogue creation. As they progress, students strengthen their personal musical style and demonstrate increasing independence in exploring, developing, and refining their instrumental skills. Performance opportunities remain a central component of the course and are assessed regularly. This structured progression from Music Performance I to Music Performance II ensures students are well prepared for more advanced coursework and future performance pathways.

Pre-requisite: Students are encouraged to engage in private music tuition for their chosen instrument (including voice) and should continue private lessons throughout the course. Ideally, students should complete all four semesters of Music (Year 9-10) consecutively to ensure ample preparation for VCE/VET Music Industry (Performance) coursework.

Links to VCE subjects:

- Music Industry

Please note: This subject runs for one semester.

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