

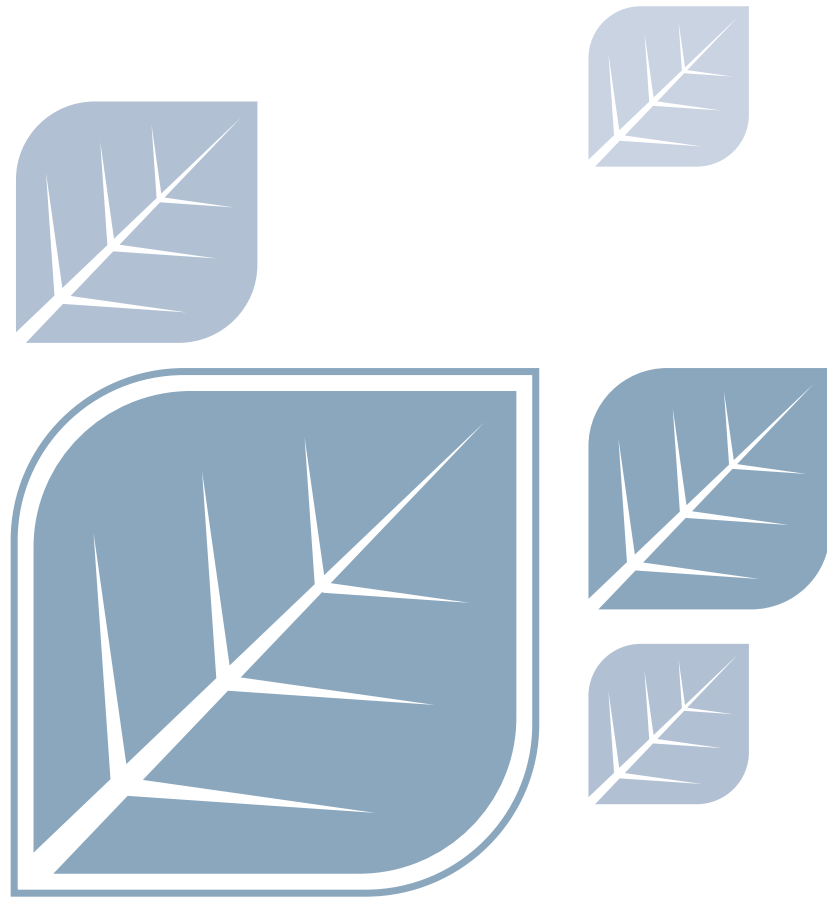


HEATHMONT COLLEGE

Year 9 and 10 Program Guide



GROWING THROUGH KNOWLEDGE



Our College places great emphasis on students having a positive attitude to every aspect of school life and on becoming independent, self directed learners.



Growing Through Knowledge

Year 9

How is Year 9 structured?

The Heathmont Model provides greater choice in learning for students in Year 9 and 10. In Year 9 students are able to consolidate their learning by choosing subjects within their area of interest. This allows students to study in areas they enjoy, specialise in the deep knowledge of an area and engage with a broader set of learning opportunities. The Year 9 structure includes both compulsory core subject and a range of electives.

Students can also choose various programs that provide deeper engagement in their studies. To apply for these programs, students or parents should email heathmont.co@education.vic.gov.au to request further information.

Subjects

Core Subjects	Elective Subjects
English: Mathematics Science Humanities Health/PE 9LiFE	Students get to choose four different electives from Arts, Languages and Technology. The combination of subjects can be any mix - there is no set requirement to study in all of the elective areas. Please note that a Language elective will run for the entire year and count as 2 elective choices.

Programs

Excellence and Enrichment

We extend and challenge students through a differentiated learning program within all our classrooms where students are provided learning experiences appropriate to their learning level. This allows us to accelerate and enrich those capable of taking a deeper dive into and beyond the core curriculum. Students express their potential through research, creative thinking, and open-ended tasks that involve problem solving.

Formal and informal assessment provides the data sets that teachers and students use to determine the next learning step. This ensures each learner engages with the right learning for them, at the right time, in the right context. In this process we are able to maximise growth for all learners.

Sports Academy

The Sports Academy has been established to enhance students Sporting, Academic and Vocational opportunities through a holistic sporting approach. The academy has a range of key partnerships and programs with numerous sporting bodies and local community facilities to help deliver a relevant and comprehensive program that is tailored for your child's chosen sport or identified talent.

German Immersion

We are proud to offer the relatively rare, valuable experience of a German Language Immersion Program in which German is the instructional language for Science, Humanities, Maths, Art and languages classes, totalling 8 sessions per cycle. This should boost the rate at which students absorb German vocabulary and grammar and help them to reach higher levels of competence in a much shorter time.

What should I consider when choosing my studies?

When making your choice you should consider studies that:

- interest you
- you are good at
- lead to a job that interests you
- prepare you for further training or tertiary courses.

A comprehensive careers program is in place to assist you to make a final decision.

How do I pick my subjects?

1. You will receive a code that allows you to access the program to choose your subjects.
2. Once logged on, you must choose the following:
 - Four semester-based electives
 - Make sure that these subjects add up to **4 units overall** (please note that an enhancement study will take up two units)
 - Make sure that you put in 2 reserves – these will be essential in the instance that there is clashes with your subject choices
3. Print and sign (by a parent or guardian) the completed webform
4. Hand this form/s into the General Office.

If you have any issues choosing your subjects, please see the Programs and Pathways Team for support. They will advise you of the best way to resolve the issue.

- Pathways and Programs Team include: Ms Melissa McMurray and Ms Nina Ling.



English - Core

English

Students continue to build on their skills from Year 8 analysing a variety of reading and writing material. Students evaluate a range of texts and use specific evidence in order to form their own interpretations. Students are using many different language devices and explain how their choices and conventions are used to influence audiences. Students continue to write analytically, persuasively and creatively using many forms of evidence to produce their response. Proof reading and editing, along with selecting appropriate vocabulary and grammatical conventions are key elements in this year level. Students are active participants in both whole class and small group discussions.

Formal and informal speaking tasks are completed at this level.

English as an Additional Language (EAL)

If English is not your first language, you may be eligible for EAL. This subject will assist students to develop the skills needed to transition into VCE EAL. Students will study a number of texts to develop their understanding of characters, themes and literary structures. Students will develop their listening and comprehension skills by listening to audio texts. This subject will continue for the full year.

Health & Physical Education - Core

Health and Physical Education

This course aims to promote active involvement in physical activity and the important role it plays in improving health and wellbeing. Students will participate in a wide range of recreation and fitness activities that promote lifelong physical activity and health gains. The practical element of this subject involves skill development activities, minor game activities and formal competitions. During all activities, the major focus will be on active participation, enjoyment and self-improvement; and will be conducted in a positive and relaxed environment to ensure all students are stretched to their ability. The theory components of this unit focus on the human body systems, game play analysis, strength and conditioning programs and fitness testing. The theory components provide students with a base knowledge of key skills and terminology in preparation for Year 10 Physical Education, Year 10 Health and Wellbeing, and into future studies in VCE Physical Education at Years 11 & 12.

Senior Pathway: VCE Physical Education, VCE Health and Human Development, VET Sport and Recreation

Humanities - Core

History

This subject will further extend students' research skills and understanding in History and begin to prepare students who wish to undertake History in senior school. This unit focuses on topics such as The Industrial Revolution, Indigenous Resistance, Making a Nation, and World War one. Throughout these topics students will not only develop a thorough understanding of historical periods, but will further enhance their primary source analysis skills and progress in essay their essay writing.

Pathway: Year 10 History, Year 10 Politics

Bilingual Humanities

Geography and History

This subject will further extend students' research skills and understanding in Geography and History through the target language of German. The course prepares students to undertake Geography, History and German at VCE. This unit focuses on topics such as Biomes and Food Security, the Industrial Revolution, Indigenous Resistance and World War One. Throughout these topics, students will not only develop a deeper understanding of geographical and historical concepts and skills, but also broaden their productive and receptive German vocabulary and further develop their literacy.

Pathway: Year 10 History, Year 10 German

Mathematics - Core

Mathematics - Advanced

This subject is offered as part of the Excellence and Enrichment program and is for students seeking challenge and extension in mathematics. There will be only one class of this subject offered at year 9 and to access it, students will need to demonstrate the required capacity to achieve at high levels in this subject. The class will cover topics from the Victorian Curriculum with a view to extending students to potentially meet the requirements of level 10 Mathematics, where possible, by the end of the year. This then provides students with an opportunity to further accelerate their learning in year 10 to study a VCE mathematics class.

Pathway: Year 10A Mathematics (Advanced), VCE Mathematics (all subjects)

Mathematics - General

The Year 9 Mathematics curriculum follows the guidance provided by the Victorian Curriculum and exposes students to a wide range of mathematical ideas, concepts and skills. Students will further develop their confidence and competence in understanding mathematical ideas, concepts and skills and apply these to both real life and abstract contexts. The subject covers the three strands of the Victorian Curriculum Mathematics of Number and Algebra, Measurement and Geometry and Statistics and Probability.

Pathway: Year 10 Mathematics, Year 10A Mathematics (Advanced)

Science - Core

Science

In Year 9 Science, students will continue to build on the scientific skills that they have been developing in their secondary science classes. Students develop questions and hypotheses that can be investigated using a range of inquiry skills. They independently design and improve appropriate methods of investigation including the control and accurate measurement of variables and systematic collection of data. They explain how they have considered reliability, precision, safety, fairness and ethics in their methods and identify where digital technologies can be used to enhance the quality of data.

The curriculum focus is on explaining phenomena involving science and its applications. Topics covered during the year include: Consumer Science, Light, Ecosystems, Acids and Bases, Chemistry and Responding.

Pathway: VCE Science subjects

9LiFE - Core

Students will undertake a different module each term. These are: Living in the 21st Century, Work Ready, Community Service and Body and Mind. More information about these modules is provided below. All students will also participate in a week-long City Experience. Students will also choose to attend Camp or a Suburb Experience.

Living in the 21st Century

This unit explores issues facing teenagers today. These include:

- *Public transport and safety*
- *Cyber Safety*
- *Team building and resilience workshops*
- *Tolerance and diversity*
- *Sustainability*

Work Ready

Students learn about pathways and study a variety of different workplaces. Weekly focuses include:

- *Resume and job applications*
- *Preparing for job interviews*
- *Tour of Deakin University*
- *Workshops at Box Hill TAFE*
- *Factory Tours*
- *First Aid*

Community Service

This module looks at how students can help the local and greater community. Lessons in the past have included:

- *A study of charities including: The Big Issue, The Salvation Army, State Schools Relief, and the RSPCA*
- *Team volunteering sessions at Primary schools, Aged Care Homes, The Salvation Army and State Schools Relief*

Body and Mind

This module has an outdoor focus. Activities include:

- *Bike education and bike riding*
- *Bushwalking*
- *Swimming*
- *Yoga/ Pilates*
- *Meditation/ Mindfulness*
- *Boxercise*
- *Health Day*

Arts - Electives

Drama

This Drama elective encourages students to take Drama to the next level. Over the course of a semester, students develop an understanding of various performance styles, strengthen their performance and expressive skills and begin to explore how to analyse and discuss external performance pieces. This subject builds confidence and competency in group work which can lead to opportunities such as: the school production; small performances in and out of school; applying for extra-curricular Drama programs; preparing students for VCE Drama or simply to teach students to get out of their comfort zone.

Pathway: VCE Drama

Media

This subject will introduce the students' to Media Studies, they will focus on developing their understanding and use of media text in regards to structure, intent, character, settings, viewpoints and genre conventions. As they use media technologies (print and film) they will extend their skills in the use of media elements such as time, space, sound, movement and lighting. They analyse the way in which audiences make meaning and how audiences interact with and share media artworks through a film analysis.

Students will encounter opportunities to safely use media technologies and it is an expectation that they will be able to access and use the software programs provided by the school. Through this students will develop a sophisticated understanding of their roles as artists and audiences as they engage with diverse media artworks.

Key skills: Enhances design skills, inquiry, technological processes, critical and creative thinking, respect and understanding of social, cultural and industry practices, confidence, curiosity, imagination, enjoyment and a personal aesthetic

Pathway: VCE Media, Visual Communication and Design, Studio Arts

Arts - Electives

Music Production

If you are interested in developing skills in Music Composition, Script Writing, Sound Engineering, Backstage Theatre, Lighting, Acting or Music Performance this subject is for you! The Music Production Elective gives all students the opportunity to participate in a hands on subject that develops many different areas of Music and Drama. You do not have to be a performer or actor to be an integral part of a performance! This subject leads to VCE Music and Drama.

Pathway: VCE Music and Drama

Music Performance

Aimed at students that wish to develop their performance skills for VCE music. This unit of work would run for 1 semester 3 periods per week. The elective develops student's technical skills on their instruments through a variety of solo and group performance opportunities, they will also learn about setting up PA systems for performances. Music Performance offers a well-rounded unit of work during that will help develop student's skills on their instruments, preparing them for VCE Music Performance: Group or Solo.

Pathway: VCE Music Performance: Group or Solo

Arts - Electives

Visual Arts

Year 9 Visual Arts offers students the opportunity to create visual art works that communicate, challenge and express their own and others' ideas. Students learn about the relationships between the viewer and artworks and how artworks can be displayed to enhance meaning for the viewer. Students will extend their ability to develop and explore ideas in a visual diary in order to prepare for the production of several final artworks. Through Visual Arts, students make and respond using visual arts knowledge, understanding and skills to express meanings associated with personal views, intrinsic and extrinsic worlds. Visual Arts engages students in a journey of discovery, experimentation and problem-solving relevant to visual perception and visual language, utilising visual techniques, technologies, practices and processes. Learning in the Visual Arts leads students to become increasingly confident and proficient in achieving their personal visual aesthetic, appreciating and valuing that of others.

Key skills: Enhances conceptual and perceptual development, inquiry, arts techniques, material use, processes, critical and creative thinking, respect and understanding of social, cultural and industry practices, confidence, curiosity, imagination, enjoyment and a personal aesthetic through engagement with visual arts making, viewing, discussing, analysing, interpreting and evaluating.

Pathway: VCE Studio Arts, Visual Communication and Design, Media

Visual Communication

Year 9 Visual Communication and design aims to enhance the students' ability to convey ideas and information to an audience through visual language. In Visual Communication Design students develop designs and solutions to provided design briefs. The development of ideas and visualisation of these ideas combined with observational drawing are a key focus of this subject. Students also learn about design, and the role of the visual communication designer and their contribution to society.

Visual Communication Design allows students to investigate the world through the practices of designers. Students explore the significance of visual communication design in different times, places and cultures. They build an understanding of the important role of visual communication design in contemporary society and apply this knowledge in their own visual communications.

Key skills; Development of confidence, curiosity, imagination and enjoyment through an engagement with visual communication design practices, greater skills to communicate ideas and information, ability to apply design elements and principles, creative, critical and reflective thinking.

Pathway: VCE Visual Communication and Design, Studio Arts, Media

Language - Electives

German

This subject will further extend students' language skills in German and begin to prepare students for VCE German. It is a full year subject and will count for two choices in their selection. Students will encounter language and content drawn from their own experience, including topics and events of general interest. They will talk about themselves, their family and friends, shopping, clothes, food, travel and tourism. They will also respond to, and formulate, questions in conversations and will write extended linked paragraphs, comparing aspects of German life with life in Australia.

It is recommended that students only attempt this subject if they have passed Year 8 German. Students who choose Year 9 German will have the opportunity to host an exchange student in September and to travel to Germany in the following March through our Sister School Program.

Key skills: Enhances listening, speaking, reading, writing and inter-cultural skills, as well as problem solving abilities and memory.

Pathway: VCE German

Indonesian

This subject will further extend students' language skills in Indonesian and prepare students for VCE Indonesian. It is a full year subject and counts for two choices in their subject selection. Students will encounter language and content drawn from their own experience, including topics and events of general interest. They will learn to talk about travel to Indonesia, markets and bargaining, food and dining, rainforest flora and fauna, endangered animals and village life. Students will practise writing and conversing in the target language. They will also have various opportunities to participate in language excursions, competitions and workshops. It is recommended that students only attempt this subject if they have passed Year 8 Indonesian. Students will have the opportunity to participate in a two-week study tour to Indonesia and Borneo, including attending our sister school in Jogjakarta, and participating in the Orang-Utan conservation programs in Borneo.

Key skills: Enhance their listening, speaking, reading, writing and inter-cultural skills.

Pathway: VCE Indonesian

Technology - Electives

Digital Technologies

The Digital Technologies curriculum enables students to become confident and creative developers of digital solutions through the application of information systems and specific ways of thinking about problem solving.

Students with an interest in programming, digital design, gaming, computer networks and cybersecurity will enjoy continuing their studies of digital technologies. Game design is a major focus in this course. Students will continue learning programming, 3D modelling using Blender and 2D and 3D game design in a game engine.

Pathway: VCE Applied Computing(Units 1 & 2) and VCE Data Analysis (Units 3 & 4)

Design and Technology

Design and Technology is a practical based subject in which students will research factors that influences designers, such as communities and the environment. They will learn about production processes and how to design and develop working drawings, cost materials, safety and production processes. They will develop skills working with timber and other materials using both hand and power tools. They will design and make projects. Students will consider the economic, environmental and social impacts of technological change and how the choice and use of technologies may contribute to a sustainable future. Students also take into account the ethical, legal, aesthetic and functional factors that inform the design processes.

Pathways VCE Design and Technology's or VCAL/VET

Food Technology

Food plays such an important part in everyone's life that we should all have the basic skills to use and enjoy it. This subject will provide students with the opportunity to develop new skills, easing the students into a more mature way of preparing, analysing, appreciating and enjoying foods. This subject provides the foundation for students to select Year 10 Food Technology and then onto Food Studies at VCE level.

Pathway: VCE Food Studies

Technology - Electives

STEAM

In Year 9 STEAM we continue learning using the TMI model that was introduced at Year 7. Students are assessed on their completion of two major projects, one for each of the two units; robotics and flight. In the Robotics unit, students will learn how to use Arduino hardware and programming to build their robotics projects. They will have opportunities to build, play and tinker with a wide selection of robotics equipment. In the Flight unit, the focus is on NASA and the technology that has allowed humans to explore space.

Pathway: VCAL/VET subjects

Bilingual Materials Technology

Textiles

Students wishing to continue learning bilingually are given the opportunity in Year 9 through Materials Technology – Textiles.

This is a practical based subject where students develop their textiles skills and knowledge, as well as their German language skills. Students will produce a bag made of recycled or reused textiles materials, and a second item of their own choice and design. They communicate and document their projects, including marketing for a range of audiences in the target language of German. As in mainstream Technology subjects, students consider the economic, environmental and social impacts of technological change and how the choice and use of technologies may contribute to a sustainable future. Students also take into account the ethical, legal, aesthetic and functional factors that inform the design processes.

Pathway: Year 10 German

Year 10

How is Year 10 structured?

Educational research has identified that student choice in their learning has a powerful impact on their engagement. To enhance student engagement, the Year 10 program is entirely elective based. Students must choose an elective in the areas of English, Maths, Science and Humanities. However the number of electives vary for each learning area. Students can also choose electives in the Art, Languages, Technology, Health and Physical Education areas.

The program at Heathmont means that a Year 10 Student's program will look like the following:

Semester 1	Semester 2
<p>English: A choice of one of five English electives</p> <p>Mathematics: A choice of one of three Mathematics streams (this is yearlong)</p> <p>Electives: Students get to choose four different electives from Arts, Humanities, Languages (both semesters), PE/Health, Science, and Technology.</p> <p>A student's mix of electives can be any combination, provided they have at least one science and one Humanities across the two semesters.</p> <p>Students who choose an enhancement subject would substitute an elective.</p>	<p>English: A choice of one of five English electives</p> <p>Mathematics: A choice of one of three Mathematics streams (this is yearlong)</p> <p>Electives: Students get to choose four different electives from Arts, Humanities, Languages (both semesters), PE/Health, Science, and Technology.</p> <p>A student's mix of electives can be any combination, provided they have at least one science and one Humanities across the two semesters.</p> <p>Students who choose an enhancement subject would substitute an elective.</p>

Enhancement

The VCE is usually done in Year 11 and Year 12 but can be started in Year 10. About half of Victorian Year 10 students take some VCE units and at Heathmont College we encourage students to enhance their studies by selecting a VCE or VETiS subject in Year 10.

Benefits:

1. The ability to focus on a single VCE subject
2. Getting a taste of VCE
3. Bonus ATAR by doing a 6th subject (students get 10% of their 6th subject added to their ATAR score)

A VCE Unit 1 or 2 subject from the Science or Humanities Learning Areas can count as your minimum required Science or Humanities subjects.

For the full list of subjects on offer, please consult the Senior School Program Guide available at the Heathmont College website

What should I consider when choosing my studies?

When making your choice you should consider studies that:

- interest you
- you are good at
- lead to a job that interests you
- prepare you for further training or tertiary courses.

A comprehensive careers program is in place to assist you to make a final decision.

If you feel you are ready for enhancement, then you would choose a year 11 VCE subject as part of the electives online. The subject would count for 2 of your choices and would replace 2 electives.

How do I pick my subjects?

1. You will receive a webcode that allows you to access the program to choose your subjects. You will also receive a recommendation relating to the types of English Maths, Science and Humanities subjects to which you are most suited.
2. Once logged on, you must choose the following:
 - Two English units
 - One Mathematics subject
 - Eight semester-based electives – 1 of which is from Science and 1 of which is from Humanities
 - Make sure that these subjects add up to **12 units overall** (please note that an enhancement study will take up two units)
 - Make sure that you put in reserves – these will be essential in the instance that there is clashes with your subject choices
3. Print and sign (by a parent or guardian) the completed webform
4. If you are choosing an enhancement study, please ensure that you fill in an Enhancement Study Application form
5. Hand this form/s into the office.

If you have any issues choosing your subjects, please see the Programs and Pathways Team for support. They will advise you of the best way to resolve the issue.

English

All students are required to complete two of the units outlined below

Novel Study

This area of English is suited for students who enjoy reading novels with strong lead characters. Students will develop an understanding of the structure of texts, characterisation and themes. Using the set texts, students will learn how to identify the societal views and values that have been presented, how authors use language to engage a reader and how to respond analytically to a text.

Pathway: VCE English, VCAL Literacy

Literature

This area of English is suited to students who enjoy and appreciate classic literature. Through the set texts, students will develop higher level critical and analytical thinking and interpretation skills. This unit will look at the structure of the texts, delve critically into the views and values presented through the texts and analysing how interpretations of these have shifted over time. Students will develop their own interpretations of the texts using literary perspectives to inform their response. Excellence and Enrichment (EEP) students are encouraged to choose this subject.

Pathway: VCE English, VCE Literature.

English

Play Study

This area of English is suited to students who enjoy plays and historical contexts, and would like to develop higher level critical and analytical thinking skills. This unit will look at the structure of plays, delve critically into the views and values presented through the texts and analysing how interpretations of these have shifted over time. Students will develop their own interpretations of the texts using literary perspectives to inform their response. Excellence and Enrichment (EEP) students are encouraged to choose this subject.

Pathway: VCE English, VCE Literature.

Page to Screen

This area of English is suited to students who enjoy reading the novel and watching the film of the same name. Students will look at the print and film version of the texts to identify similarities and differences in the representation of ideas and concerns, characterisation, plot and themes. Students will develop comparative writing skills and will have opportunities to discuss the strengths and weaknesses of the transformation of texts.

Pathway: VCE English, VCE Literature.

English as an Additional Language (EAL)

If English is not your first language, you may be eligible for EAL. This subject will assist students to develop the skills needed to transition into VCE EAL. Students will study a number of texts to develop their understanding of characters, themes and literary structures. Students will develop their listening and comprehension skills by listening to audio texts. Students will also be introduced to persuasive devices and how writers try to influence the way an audience thinks or feels about an issue. This will continue for the full year.

Pathway: VCE English as an Additional Language EAL

Mathematics - Yearlong

All students are required to complete one of the units outlined below

Year 10 Mathematics – Advanced

This subject will cater for students that are looking to follow a pathway into Maths Methods and Specialist Maths. We would be encouraging students that choose this option to consider both mathematics subjects in year 11. The core areas from the year 10 general maths would be supplemented by the additional areas of study on trigonometry, quadratics, polynomials and indices and surds.

Pathway: VCE Mathematics Methods, VCE Specialist Mathematics

Year 10 Mathematics – General

This subject will cater for students that are looking to continue their maths beyond year 10 into General and Further Mathematics. The areas of focus would be measurement, algebra, linear relations, probability and areas that would differ in Advanced would be a stronger focus on financial maths and statistics.

Pathway: VCE General, VCE Mathematics Methods, VCE Further Mathematics

Humanities

Business Management - Money, Markets and Capital

Entering the workforce is something you will all do in the future. But how can you make sure you're best prepared to face the business world? This subject will look at how people interact with the business world and discuss many things we see in the media about business. You will trade shares, discuss marketing campaigns and learn about economic concepts such as inflation, interest rates and relative scarcity. You will also learn how to budget, so you can use these skills in real life when you're going to buy your first car or anything else you might be saving up for. Topics explored will draw on relevant case studies of current businesses to give you a thorough understanding of the issues confronting businesses operating in today's ever-changing environment.

Pathway: VCE Business Management and Accounting

History - World War II: Stopping Hitler and Japan

This unit focuses on the most deadly human conflict in history, the Second World War. It will explore how Hitler and the militaristic government of Japan came to power and set the world on a course of conflict. It will examine how the war was fought, the weapons of war, its main battles, the Holocaust, and how the war changed the world order. This unit will explore the fighting in both the Pacific and European theatres and focus on how the world's nations united to defeat Germany and Japan.

Pathway: VCE History

Legal Studies

In this semester, students are introduced to both Criminal and Civil Law, giving them a taste of VCE Legal Studies. In topic one, Criminal Law, students learn about what crime is, how it is managed and how the law is enforced in society. They learn about crimes such as murder and they look at the Acts which sanction these crimes. In topic two, Civil Law, students compare Civil to Criminal law and learn about their rights as individuals. They learn the types of remedies on offer in civil cases as well as the types of civil offenses. Students look at a range of real-life examples and case studies to help bring the real-world into this subject.

Pathway: VCE Legal Studies

Humanities

Politics - Government and Democracy in the Twenty First Century

This unit focuses on the functions of government and democracy both in Australia and overseas as different political systems are investigated and analysed. Issues such as freedom of speech, human rights, the role of the UN as well as key case studies such as Brexit and the Syrian conflict are studied to understand how Politics functions in the Twenty First century. If you're interested in what's happening in the world globally right now and what expand your understanding of key issues that influence political debate then, this subject is for you.

Pathway: VCE Global Politics

Science

Biology

Come and investigate the world of Biology. Students will study how our genes hold the information to build and maintain our cells and pass genetic traits from one generation to the next. Genetic disorders, DNA technology, and the future of genetic manipulation will be included. Different components of plant and animal cells will also be explored. Students will learn more about animals and how they interact with others within their environment. The process of survival of the fittest and natural selection will be investigated. Students will also study the theory of plate tectonics and how it explains global patterns of geological activity and continental movement. This study provides the building blocks for VCE Biology.

Pathway: VCE Biology

Chemistry and Physics

Come and investigate the world of Chemistry and Physics. Students will explore atoms, the periodic table, chemical reactions and equations. Students will be introduced to a greater range of scientific equipment that will continue to build and improve their skills. The physics concepts covered relate to motion of objects and the effects of forces on cars. We will investigate Newton's Laws of Motion and the science behind car crashes and car safety features. Practical activities will be incorporated throughout. This study provides the building blocks for VCE Chemistry and/or Physics.

Pathway: VCE Chemistry and/or Physics.

Psychology

Come and investigate the fascinating way that humans think, feel and do. This course will introduce you to Psychology how this study of the human mind originated and what sorts of applications it is used for today. Throughout the semester you will gain a greater understanding of the positive aspects of Psychology how it is used to improve the human condition in a time when mental disorders are prevalent. Conversely, the class will investigate Forensic Psychology gaining an insight into the mindset and motivation of a variety of criminals. The students will also have an opportunity to design and carry out their own investigations to develop key science skills important for VCE Psychology.

Pathway: VCE Psychology

Science

Science Investigations

Come and investigate the world of hands on practical and investigation skills. Students will further develop abilities to design and carry out experiments. Students will explore major themes using different chemistry experimental techniques, consider the impact of humans on the environment and themselves, and investigate the future of alternative energy sources.

Much of this unit will be devoted to major investigations, where they will:

Examine the water quality of Dandenong Creek

Scrutinize a consumer product

Explore alternative energy sources via OneCar (Students use a solar panel, electric motor, capacitor, kitchen chemicals, compressed air and propeller to consider energy types)

This study provides the building blocks for VCE Science subjects.

Pathway: VCE Science subjects

Physical Education/Health

Physical Education

This subject focuses on the interrelationships between the human body and the science behind peak performance for an athlete. This subject aims to promote and influence performance and participation in physical activity, sport and exercise. Year 10 Sports Science explores the anatomical structure of the body including the skeletal and muscular systems in relation to fitness components through various training methods. We seek to understand the nutritional demands of an athlete and explore the various forms of legal and illegal aids used in sport. Students will experience hands on fitness-related activities that extend their knowledge and understanding of training with purpose. Students undertake a series of training methods and are given some self-directed tasks to extend their own skills. During this course, we offer students the opportunity to learn about sports and areas that they are interested in and provide opportunity for research tasks. The subject is 50% theory, 25% laboratory and 25% practical. The theory components provide students with key skills and knowledge in preparation for VCE Physical Education at Years 11&12, VCE Health and Human Development and VET Sport and Recreation.

The theory components provide students with key skills and knowledge in preparation to completing VCE Physical Education at Years 11&12, Health and Human Development and VET Sport and Recreation.

Senior Pathway: VCE Physical Education, VCE Health, VET Sport and Recreation

Health and Wellbeing

Year 10 Health and Wellbeing takes a broad and multidimensional approach to health and wellbeing. Students will focus on health across the lifespan including the physical, social, emotional, mental and spiritual aspects of a person. Year 10 Health and Wellbeing will focus on how healthy eating can positively impact on one's health, whilst participating in a range of practical experiences that complement the theory work completed. Students will explore the World Health Organisation and take a closer look into health on a nation and global scale. This subject is 90% theory and 10% practical. The theory components provide students with key skills and knowledge in preparation for VCE Health and Human Development at Years 11&12, VCE Physical Education at Years 11&12 and VET Allied Health.

Senior Pathway: VCE Health and Human Development, VCE Physical Education, VET Allied Health

Physical Education/Health

Outdoor and Environmental Studies

Outdoor and Environmental Studies is a subject where students investigate the uses of the outdoors, and the wide range of uses that it presents in today's world. Students look at the land through an indigenous perspective, whilst investigating the current population's motivations for utilizing the outdoors. This is an excellent subject if you are interested in Outdoor Education, Recreation, Eco-Tourism, Environmental Science or Resource Management. It combines a range of compulsory multi-day practical activities that explore the theory associated with environmental relationships, and concepts related to human and societal relationships with outdoor environments. The subject is 70% theory and 30% practical.

Senior Pathway: VCE Unit 1&2 Outdoor and Environmental Studies

Arts

Drama

This Drama elective encourages students to take Drama to the next level. Over the course of a semester, students develop an understanding of various performance styles, strengthen their performance and expressive skills and begin to explore how to analyse and discuss external performance pieces. The students will work on solos and ensemble pieces. This subject builds confidence and competency in group work which can lead to opportunities such as: the school production; small performances in and out of school; applying for extra-curricular Drama programs; preparing students for VCE Drama or simply to teach students to get out of their comfort zone.

Pathway: VCE Drama

Media- Film

Students will analyse selected films in order to create their own. They will complete a pre-production assessment where they write a synopsis of their proposed film which can be an animation or short movie, create a storyboard and define the role of each team member. They will also need to indicate how they intend to incorporate modern technology into their film. There will be a series of practical lessons where students learn how to use and apply the technology which could include working with the green screen, basics of 3D Modeling, texturing, lighting, animating and rendering. They then set about creating their film. This elective is a progression from the year 9 Media elective and is excellent preparation for students who intend to do further studies in VCE Media.

Pathway: VCE Media, Visual Communication and Design, Studio Arts

Media- Photography

Students will analyse selected photographers in order to create their own photographic portfolio. They will complete a pre- production assessment where they write an analysis of a well-known photographer's work, create developmental work and define the subject, topic, style, genre, purpose, impact and outcome of their portfolio. They will also need to indicate how they intend to incorporate modern technology into their work. There will be a series of practical lessons where students learn how to use and apply the technology that includes working with the Adobe suite. This elective is a progression from the year 9 Media elective and is excellent preparation for students who intend to do further studies in VCE, especially Media.

Pathway: VCE Media, Visual Communication and Design, Studio Arts

Music Performance

Aimed at students that wish to develop their performance skills for VCE music. This unit of work would run for 1 semester 3 periods per week. The elective develops student's technical skills on their instruments through a variety of solo and group performance opportunities, they will also learn about setting up PA systems for performances. Music Performance offers a well-rounded unit of work during that will help develop student's skills on their instruments, preparing them for VCE Music Performance: Group or Solo.

Pathway: VCE Music Performance: Group or Solo

Music Production

If you are interested in developing skills in Music Composition, Script Writing, Sound Engineering, Backstage Theatre, Lighting, Acting or Music Performance this subject is for you! The Music Production Elective gives all students the opportunity to participate in a hands on subject that develops many different areas of Music and Drama. You do not have to be a performer or actor to be an integral part of a performance! This subject leads to VCE Music and Drama.

Pathway: VCE Music and Drama

Visual Communication and Design

Visual Communication Design in year 10 encourages students to create individual designs and trial a variety of materials and design processes. It is expected that students will be self-motivated, have demonstrated a genuine interest and ability in the subject and be considering this as a subject to be studied at a higher level. These skills are transferable to VCE Visual Communication & Design and extend into other folio-based subjects such as Studio Arts and Media

Pathway: VCE Visual Communication and Design, Studio Arts, Media

Visual Arts

The Visual Arts Practice Elective is designed as a pathway into VCE Studio Arts or Art. This study encourages and supports students to recognise their individual potential as art makers and presents a guided process to assist their understanding and development of art making. This unit focuses on using sources of inspiration and individual ideas as the basis for developing artworks and exploring a wide range of materials and techniques as tools for communicating ideas, observations and experiences through art making. Students also explore and research the ways in which artists from different times and cultures have interpreted and expressed ideas, sourced inspiration and used materials and techniques in the production of artworks.

Pathway: VCE Studio Art

Languages

German

This subject will further extend students' language skills in German and prepare students for VCE German. It is a full year subject and will count for two choices in their selection.

Students will encounter language and content drawn from their own experience, including topics and events of general interest. They will talk about themselves, their family and friends, shopping, clothes, food, travel and tourism. They will also respond to, and formulate, questions in conversations and will write extended linked paragraphs, comparing aspects of German life with life in Australia. It is recommended that students only attempt this subject if they have passed Year 9 German. Students who choose Year 10 German will have the opportunity to host an exchange student and to travel to Germany in September through our Sister School Program.

Key skills: Enhance their listening, speaking, reading, writing and intercultural skills.

Pathway: VCE German

Indonesian

This subject will further extend students' language skills in Indonesian and prepare students for VCE Indonesian. It is a full year subject and counts for two choices in their subject selection. Students will encounter language and content drawn from their own experience, including topics and events of general interest. They will learn to talk about travel to Indonesia, markets and bargaining, food and dining, rainforest flora and fauna, endangered animals and village life. Students will practise writing and conversing in the target language. They will also have various opportunities to participate in language excursions, competitions and workshops. It is recommended that students only attempt this subject if they have passed Year 9 Indonesian. Students will have the opportunity to participate in a two-week study tour to Indonesia and Borneo, including attending our sister school in Jogjakarta, and participating in the Orang-Utan conservation programs in Borneo.

Key skills: Enhance their listening, speaking, reading, writing and intercultural skills.

Pathway: VCE Indonesian

Technology

Digital Technologies

The Digital Technologies curriculum enables students to become confident and creative developers of digital solutions through the application of information systems and specific ways of thinking about problem solving. Students in Year 10 Digital Tech engage in two major projects. The first; Digital Product, encourages them to choose an Arduino based project that develops them in three areas: mechanical, electronics and programming. The second, 3D Asset, encourages them invest their time and effort into Blender. With a stronger understanding of 3D modelling in Blender; many pathways are then open to the student: games design, 3D printing, architecture and engineering. Our final unit is a brief introduction to Python programming and gives an insight into what's offered in Year 11 Computing.

Pathway: VCE Computing Informatic

Design and Technology

Design and Technology is a practical based subject in which students will research factors that influences designers, such as communities and the environment. They will learn about production processes and how to design and develop working drawings, cost materials, safety and production processes. They will develop skills working with timber and other materials using both hand and power tools. They will design and make projects. Students will consider the economic, environmental and social impacts of technological change and how the choice and use of technologies may contribute to a sustainable future. Students also take into account the ethical, legal, aesthetic and functional factors that inform the design processes.

Pathways VCE Design and Technology's or VCAL/VET

Technology

Building and Construction

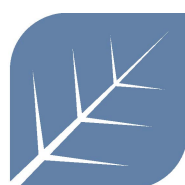
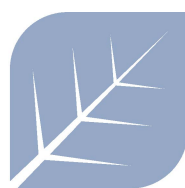
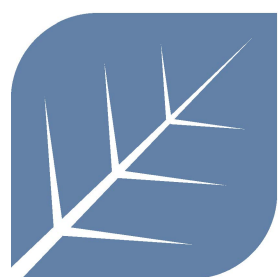
The Building and Construction Industry within Australia provides employment across a wide range of services, as well as providing infrastructure that enables all sectors of our community to function. For Australian building and construction enterprises to remain competitive within both the global and national market place, Australian building and construction companies need well trained members. This subject will introduce you to basic construction skills centralised around carpentry. You could reasonably expect to develop your understanding of framing techniques (sub-floors and walls) as well as work health and safety, workplace communication, plan interpretation and specifications and carpentry tools and equipment. You will also be competency tested on a range of corded and non-corded tools typically used in the carpentry trade.

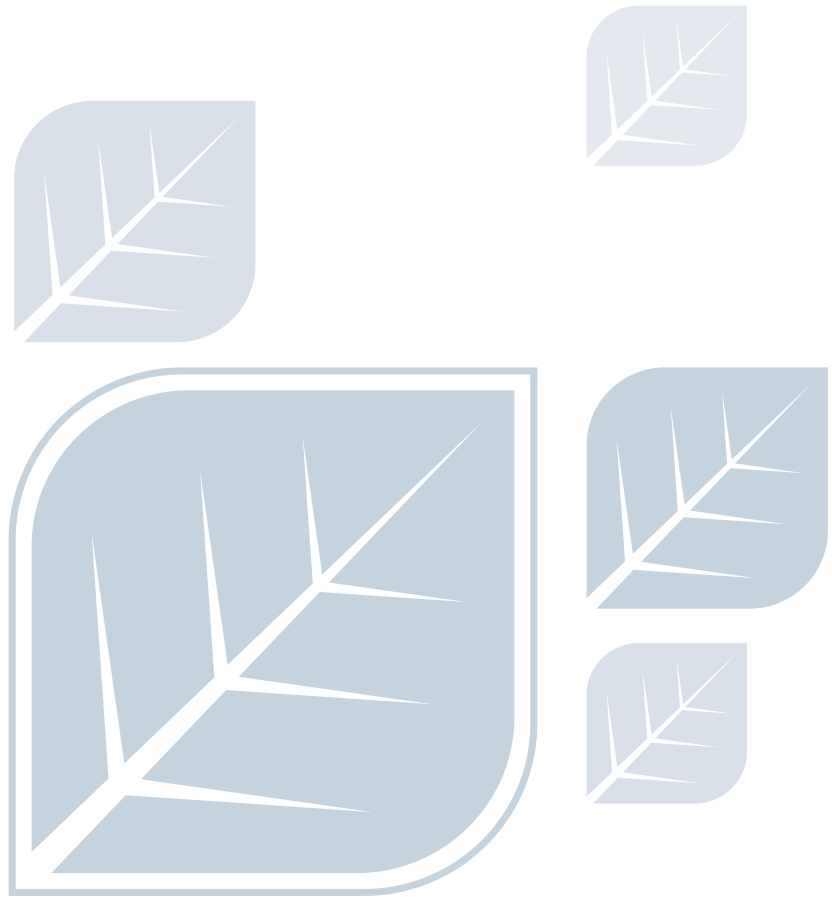
Pathway: VET, VCAL, VCE Product Design and Technology

Food Technology

Food plays such an important part in everyone's life that we should all have the basic skills to use and enjoy it. This subject will provide students with the opportunity to develop the skills that will enable them to confidently prepare foods for themselves and others. It will expand their knowledge of food, food flavours and food decoration as well as allowing them to be able to make informed decisions regarding their food choices. This subject provides the foundation for students to select Food Studies at VCE level.

Pathway: VCE Food Studies







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