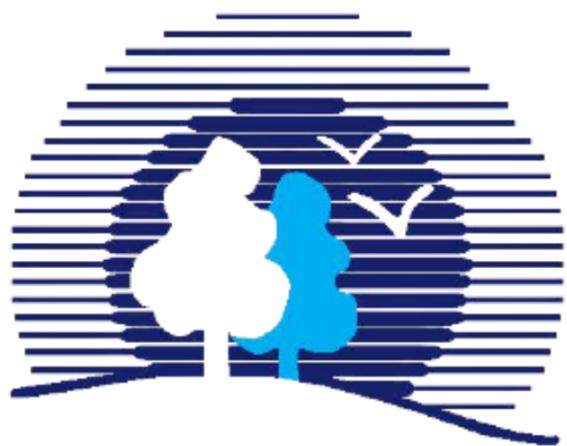


LYNDHURST SECONDARY COLLEGE



2023 Year 9 Subject Handbook

*Empowering students for
learning and life*

Table of Contents

Principal’s Message.....	3
Learning at Lyndhurst Secondary College.....	4-5
Explore (Year 9) Overview.....	6
Explore (Year 9) Curriculum Structure.....	7
Subject Choices.....	8
Arts – Performing.....	9
Arts – Visual.....	10-11
Health and Physical Education.....	12-13
Humanities.....	14-15
Languages.....	16
Mathematics.....	17
Science.....	18-19
STEM (Science, Technology, Engineering, Maths).....	20-22
General Advice – Choosing Subjects.....	23
Course Counselling Planning Sheet.....	24

Principal's Message

The purpose of this handbook is to support and guide current Year 8 students with important subject and pathway choices.

At Lyndhurst Secondary College, we focus on empowering students to have an active voice in their subject choices and pathways. This helps to ensure that they are engaged in their learning, and can be studying areas of interest for them. We recognise that not all learners may enjoy the same subjects or have the same pathways they are working towards, so we work with students to develop the kinds of subjects that they want to study. These are the subjects you will find offered in this handbook.

Year 9 is an exciting year where students get their first big opportunities for choice and voice in learning. With this opportunity, comes the responsibility that all learners have to make informed choices. This includes making sure they have read the subject information in this handbook, as well as spoken with key contacts and their current teachers to help guide their choices.

We look forward to meeting with students as part of the Course Counselling process where subject preferences are entered into our systems for the following year.

We thank students for their preparation in this process, as well as staff, parents and carers for the support of our Lyndhurst learners.



Ms Eloise Haynes

College Principal

Learning at Lyndhurst Secondary College

At Lyndhurst Secondary College, we empower students for learning and life.

Our curriculum across Years 7 to 12 is designed to meet the following core principles:

- Meet the academic and social needs of all learners
- Empower learners to have voice and agency in their learning
- Build successful, lifelong learners
- Create work-ready, employable people

We have a vision of a successful Lyndhurst Learner looks like further in our Graduate Profile. This identifies the skills and dispositions of a successful graduate of Lyndhurst.

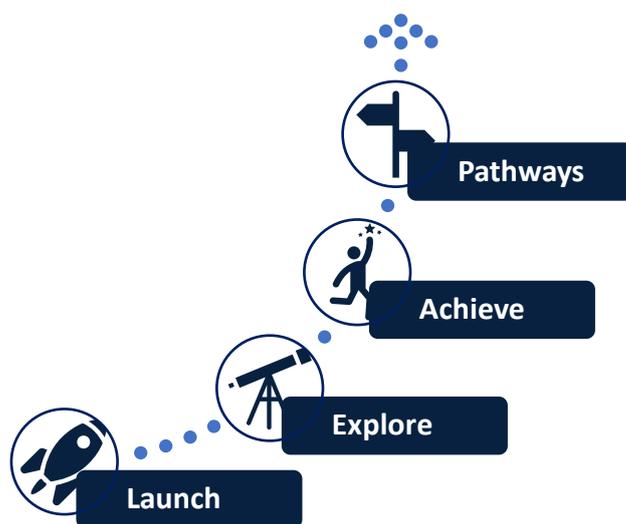
Successful Lyndhurst Graduates are...



To enable all learners the best opportunities to succeed, we understand that learning opportunities need to develop alongside our young people. Therefore, our curriculum structure gradually releases responsibility over the years, moving from a structure of core curriculum with minimal choice, to a fully customised, individual pathway. This enables students to take more control and responsibility for their learning as they progress through the stages, all with the guidance of support of their parents/carers and our staff.

Our college structure and associated curriculum is based on three distinct sub school stages, each with their own identity and focus. By moving successfully through these three stages, we aim for all learners to be able to move into the fourth phase where they attain and enter their desired pathways. These four phases together form our school-wide philosophy for learning over the years:

- Launch (Years 7 and 8)
- Explore (Years 9 and 10)
- Achieve (Years 11 and 12)
- Pathways (post-secondary schooling)



Explore (Year 9) Overview



Define: explore (verb) –

To examine something thoroughly. To learn something by trying it.

The focus for this the Explore stage (which encompasses Years 9 and 10) is on providing students with the opportunities to engage with a wide variety of subjects. This encourages students to take more responsibility for determining their learning pathway through increase elective choices. In addition to this, students continue to study a core program to ensure there is breadth in their learning.

The standard Explore program at Years 9 sets the foundations for preparing students to engage with EITHER of the majors in the VCE: VCE or VCE Vocational Major.

Explore (Year 9) Curriculum Structure

In 2023, a typical learning program for learners in Explore (Year 9) is structured as follows:

Subject	Semester 1	Semester 2
English/EAL	9 periods	
Mathematics	9 periods	
Explore	2 periods	
Health and Physical Education	6 periods	
Humanities	6 periods	6 periods
Science	6 periods	6 periods
Free Choice	6 periods	6 periods
	6 periods	6 periods

	Core curriculum		Guided choice		Free choice
--	-----------------	--	---------------	--	-------------

More information about the guided choice and free choice options is outlined below:

Mathematics	<p>From Year 9, students have the opportunity to continue with Core Maths (studying Maths as they do in Years 7 and 8), or choose to take Numeracy which is a more hand-on, practical application of Maths and Numeracy skills.</p> <p>Recommendations are provided based on testing data and other assessment data to ensure that students are recommended a choice based on their academic level and desired pathways.</p>
Humanities	<p>All students will study a year of Humanities (2 x semester-long subjects).</p> <p>Students have the choice of which of the Humanities areas they wish to explore more deeply by choosing two options from the electives provided.</p>
Science	<p>Students participate in 1 semester of core Science curriculum, then have the opportunity to choose their 2nd semester Science elective from a range of options (including STEM – Robotics and STEM – Systems Engineering)</p> <p>Students wishing to continue with a pre-VCE Science pathway should select Science 2 as their 2nd semester. These students will also be able to select up to one additional Science (or Robotics from STEM) in their free choices.</p>
Free Choice	<p>Students participate in 4 x semester long free choice electives from the following learning areas:</p> <ul style="list-style-type: none"> • Arts – Performing • Arts – Visual • Health and PE (maximum 1 free choice in addition to core) • Languages • Science (see above for further information) • STEM

Subject Choices

Learning Area	Subjects
Arts – Performing	Drama
	Music
Arts – Visual	Multimedia
	Studio Arts
	Visual Communication
Health and Physical Education (PE)	Dance
	Personal Fitness
	Sport and Recreation
	Sports Leadership
Humanities	Australians at War
	Financial Literacy
	Making and Breaking the Law
	Running a Business
Languages	Hindi
	World Languages
Mathematics	Core Maths
	Numeracy
Science	Forensic Science
	Medical Science
	Science 2
	Space Science
STEM	Digi Tech
	Food Studies
	Product Design (Wood)
	Systems Engineering
	Robotics
	Textiles

Arts – Performing

Drama

Subject Description	Students will work co-operatively to plan, rehearse and present dramatic works. Lessons will be taught in a workshop format where students will explore theatrical techniques collaboratively. Characterisation and role play will be explored largely through improvisation.					
Assessment	<ul style="list-style-type: none"> • Research tasks • Performance • Performance viewing and analysis 					
Advice to Students	This is ideal for students who enjoy theatre or performance to and wish to expand on their acting skills or overall performance confidence.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Drama	Pre-VCE Drama	VCE Drama	VCE Drama
Teacher Contact	Ms Veronica Thay					

Music

Subject Description	Students will undertake Guitar and Keyboard skills and learn about Music Notation. Students are expected to participate in practical classes and form small ensembles, where they will perform music using techniques and skills learnt and experiment with original ideas. Students will gain an appreciation of the works of other artists by learning about techniques, artistic purpose and historical context. Genres studied will include Rock, Rhythm and Blues and Hip-Hop.					
Assessment	<ul style="list-style-type: none"> • Research tasks • Music composition • Performance • Performance viewing and analysis 					
Advice to Students	This is ideal for students who enjoy playing and performing music and want to build their skills either as a solo artist or group member. It is highly recommended that students can read music to a basic level for this subject.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Music	Pre-VCE Music Performance	VCE Music Performance	VCE Music Performance
Teacher Contact	Mr Stephen Virgona					

Arts – Visual

Multimedia

Subject Description	Students will be introduced into new areas of Multimedia. The teacher will choose several areas to cover from the extensive list of media available. This may include film, music, websites, animations, print designs, radio and television. Students will develop knowledge of multimedia programs such as MovieMaker and Adobe Photoshop. From this, the students will observe and review all media studied to advance their multimedia skills in the aspects of design and creation.					
Assessment	<ul style="list-style-type: none"> • Photo journal task • Short films • Computer-based design tasks 					
Advice to Students	This is ideal for students who are looking to expand their skills in using digital tools and movie making tools.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Multimedia	Pre-VCE Media	VCE Media	VCE Media
Teacher Contact	Ms Le-Le Dang					

Studio Arts

Subject Description	Students will be encouraged to work creatively in a range of art forms and materials. They will also learn how to create artworks from various starting points. Students are expected to participate in the design process, experimenting with ideas using various materials and techniques. Students will gain an appreciation of the works of other artists by learning about techniques, artistic purpose and historical context.					
Assessment	<ul style="list-style-type: none"> • Creative folio • Analysis of artist works 					
Advice to Students	This is ideal for students who like to use art to express themselves, as well as building their skills in using a range of materials.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Studio Arts	Pre-VCE Studio Arts	VCE Studio Arts	VCE Studio Arts
Teacher Contact	Ms Georgina Gaitanis					

Arts – Visual

Visual Communication

Subject Description	<p>Students will develop an understanding of the various aspects of design. They will examine the way visual language can be used to convey ideas, information and communicate messages. Students will participate in the design process and will work to a design brief for a stated audience.</p> <p>Design elements and principles will be used, and students will analyse their own work and the work of established designer/s.</p>					
Assessment	<ul style="list-style-type: none"> • Folio of technical drawings • Analysis of design process and drawings 					
Advice to Students	<p>This is ideal for students who are interested in technical drawing or drawing to meet a particular user need, as well as those potentially interested in related fields such as architecture.</p>					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Visual Communication	Pre-VCE Visual Communication	VCE Visual Communication	VCE Visual Communication
Teacher Contact	Ms Georgina Gaitanis					

Health and Physical Education

Dance

Subject Description	Students will explore a range of dance styles, which may include line dancing and contemporary styles such as modern jazz and Hip Hop. Partner and cultural dances such as ballroom dancing and bush dancing may also be covered. Students will research different styles of dance throughout time and be given the opportunity to choreograph their own performance in a style that best suits their interest and ability.					
Assessment	<ul style="list-style-type: none"> • Dance origins: Research task into a specific dance • Performance assessment • Video analysis assessment 					
Advice to Students	This is ideal for students who enjoy dancing either to set dances or choreographing their own routines.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Dance	Pre-VCE Dance VET Dance	VCE Dance VET Dance	VCE Dance VET Dance
Teacher Contact	Mr Daniel Hern, Ms Marilyn Kinchington					

Personal Fitness

Subject Description	Students will participate in a variety of training activities within; cardio (running, cycling), resistance training (weights), yoga and Pilates for example. Students will learn about training principles and apply these principles and apply them to various fitness goals. They will undertake a unit of theory within fitness by learning the body systems: skeletal, circulatory, muscular. Students will delve deeper into nutrition and understand how various supplements and nutrition effect sports performance and body development.					
Assessment	<ul style="list-style-type: none"> • Individual Training Program • Planning and delivering a circuit session • Physical requirements for a specific activity or job 					
Advice to Students	This is ideal for students that want to improve their overall fitness or want to understand how to look after their body in preparation for their future profession/trade.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Personal Fitness	Pre-VCE PE VET Sport & Rec	VCE PE VET Sport & Rec	VCE PE VET Sport & Rec
Teacher Contact	Mr Daniel Hern, Mr Ryan Tindal					

Health and Physical Education

Sport and Recreation

Subject Description	Students will participate in a variety of theory and practical units based around the sport and recreation industry. As part of this subject students will learn first aid procedures and how to manage risks in sports and outdoors. This unit will incorporate various activities both on site at school and offsite excursions. Activities such as mountain biking, surfing and leisure sports will incur a small cost to cover the expenses of the unit.					
Assessment	<ul style="list-style-type: none"> • Planning an outdoor activity session • Create and run a sport coaching session • First aid and safety management 					
Advice to Students	This is a great choice for people who like to be active and adventuring. You should choose this subject if you are interested in outdoor sports, coaching or are an adventurous person.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Sport and Recreation	Pre-VCE PE VET Sport & Rec	VCE PE VET Sport & Rec	VCE PE VET Sport & Rec
Teacher Contact	Mr Daniel Hern, Mr Harry Potter, Mr Bradley Livesay					

Sports Leadership

Subject Description	Students will develop their leadership skills by participating in entry-level coaching qualifications and planning/delivering practical sessions. Students will also have the opportunity to improve their knowledge in coaching methods, motivation and feedback. During theory lessons, students will investigate factors affecting participation at a personal, community and national level. This elective is an ideal opportunity to become an LSC Sports Leader, whereby students will be given responsibilities to assist junior interschool sport and school carnivals.					
Assessment	<ul style="list-style-type: none"> • Research a successful sports coach/leader • Planning an activity • Delivering a coaching session 					
Advice to Students	Students should have good organisational skills and be confident in speaking in front of a group. There may be costs for formal qualifications.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Sports Leadership	Pre-VCE PE Pre-VCE Outdoor Ed VET Sport & Rec	VCE PE VCE Outdoor Ed VET Sport & Rec	VCE PE VCE Outdoor Ed VET Sport & Rec
Teacher Contact	Mr Daniel Hern					

Humanities

Australia @ War

Subject Description	Australia @ War focuses on the military history of Australia's involvement in World War I and World War II.					
Assessment	<ul style="list-style-type: none"> • Source analysis (including documents and cartoons) • Written response to prompts • Research project 					
Advice to Students	This subject can be studied up to Year 12 and is recommended for students considering VCE History as a subject in the future.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Australia @ War	Pre-VCE History	VCE History: Modern History	VCE History: Revolutions
Teacher Contact	Mr Darren Tuite, Ms Frances Fenech					

Financial Literacy

Subject Description	Financial literacy is a unit focusing on becoming literate in financial applications. In this unit, students focus on budgeting, banking and investments. Students learn how to record and report using industry standards and programs.					
Assessment	<ul style="list-style-type: none"> • Case studies • Project, including planning a budget 					
Advice to Students	This subject can be studied up to Year 12 and is recommended for students considering VCE Accounting or Business Management as a subject in the future.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Financial Literacy	Pre-VCE Business Management Pre-VCE Accounting	VCE Business Management VCE Accounting	VCE Business Management VCE Accounting
Teacher Contact	Ms Sugantha Samuel, Mr Bishoy Aziz, Ms Nada Bitar					

Humanities

Making and Breaking the Law

Subject Description	<p>This subject explores different types of crimes, including defences to crimes, the Victorian prison system, police powers, forensic law and individual rights.</p> <p>Students will have an excursion to court as part of this unit to see the law in action.</p>					
Assessment	<ul style="list-style-type: none"> • Case studies • Research projects 					
Advice to Students	<p>This subject can be studied up to Year 12 and is recommended for students considering VCE Legal Studies as a subject in the future.</p>					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Making and Breaking the Law	Pre-VCE Legal Studies	VCE Legal Studies	VCE Legal Studies
Teacher Contact	Ms Nada Bitar, Ms Sophie Noulikas					

Running a Business

Subject Description	<p>Students will learn how to develop new business ideas and develop business plans. They will undertake a project run by students to promote entrepreneurial thinking and innovation as well as understanding Business ethics and morality in business.</p>					
Assessment	<ul style="list-style-type: none"> • Designing an innovation/business idea • Writing a business plan 					
Advice to Students	<p>This subject can be studied up to Year 12 and is recommended for students considering VCE Business Management as a subject in the future.</p>					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Running a Business	Pre-VCE Business Management	VCE Business Management	VCE Business Management
Teacher Contact	Ms Sugantha Samuel, Mr Bishoy Aziz, Ms Nada Bitar					

Languages

Hindi

Subject Description	<p>Students have the opportunity to continue developing their Hindi language skills in this elective choice.</p> <p>Students will study a range of topics including culturally specific and global issues, and will use these topics to practise their speaking, listening, reading and writing skills in Hindi language and script.</p>					
Assessment	<ul style="list-style-type: none"> Investigation/research projects Speaking and listening exercises e.g. role plays 					
Advice to Students	<p>Learning a language can assist all students to broaden their understanding of the world we live in. Students may wish to use this for future work or travel experiences.</p>					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Hindi	Pre-VCE Hindi	VCE Hindi (via VSL)	VCE Hindi (via VSL)
Teacher Contact	Ms Hiba Vodehra					

World Languages

Subject Description	<p>In World Languages, students will use the online platform Education Perfect to select a language they are interested in. Students will work using a self-paced, online course to learn key phrases in their chosen language, then use this language in practical activities and assessments.</p> <p>Languages available to study include Chinese (Mandarin), German, French, Italian, Spanish, Indonesian, Japanese, Arabic and Māori.</p>					
Assessment	<ul style="list-style-type: none"> Research projects Video presentations Online assessments 					
Advice to Students	<p>This course is designed more for students with an interest in learning a new language. It is not designed for those already fluent or with skills in the listed languages. It does not lead to a VCE pathway of languages directly.</p> <p>Students undertaking this course must have their own laptop and pay an additional fee to register in the online course (approx. \$15).</p>					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			World Languages	World Languages	-	-
Teacher Contact	Ms Lisa Williams					

Mathematics

Numeracy

Subject Description	<p>Numeracy focuses on enabling students to develop and enhance their numeracy skills to make sense of their personal, public, financial and vocational lives. Students develop mathematical skills by applying their learning in real-life context.</p> <p>This study allows students to explore the underpinning mathematical knowledge of number and quantity, measurement, shape, dimensions and directions, data and chance, the understanding and use of systems and processes, and mathematical relationships and thinking.</p> <p>This mathematical knowledge is then applied to tasks which are part of the students' daily routines and practices, but also extends to applications outside the immediate personal environment, such as the workplace and community.</p>					
Assessment	<ul style="list-style-type: none"> • Problem solving tasks • Project based tasks • Use of technology • Application tasks 					
Advice to Students	<p>It is highly recommended that students attain a minimum of Satisfactory Outcome to their Core Maths subjects to be able to successfully engage in Numeracy at Year 9 level.</p> <p>Students might incur additional excursion costs and other related costs.</p>					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Numeracy	Pre-VCE Numeracy	VCE VM Numeracy	VCE VM Numeracy
Teacher Contact	Ms Hiba Vodehra, Ms Ashley Swamy					

Science

Forensic Science

Subject Description	This unit aims to introduce students to fundamental processes involved in forensic science. Students learn the chemical and biochemical techniques used by forensic scientists to assist the judicial system to help solve crimes, or to help prove that a law has been broken. Students learn how to perform examinations; analyse, interpret, and present evidence. Students in groups, will use scientific inquiry skills to solve crime scenarios.					
Assessment	<ul style="list-style-type: none"> • Lab reports • Research reports • Practical investigations 					
Advice to Students	Prior to completing this subject, students should have completed Year 9 Science in Semester 1. Additional incursion/excursion costs will be charged as part of this subject.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Forensic Science	Pre-VCE Biology Pre-VCE Chemistry	VCE Biology VCE Chemistry	VCE Biology VCE Chemistry
Teacher Contact	Ms Nimalini Maheswaran					

Medical Science

Subject Description	Students learn about how human body responds to diseases. They investigate how diseases are diagnosed and treated. They explore how technology has advanced medical treatments. Students explore medical case studies and perform data analysis to diagnose diseases and find possible cures.					
Assessment	<ul style="list-style-type: none"> • Case studies • Lab reports • Research reports 					
Advice to Students	Prior to completing this subject, students should have completed Year 9 Science in Semester 1. Additional incursion/excursion costs will be charged as part of this subject.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Medical Science	Pre-VCE Biology	VCE Biology	VCE Biology
Teacher Contact	Ms Nimalini Maheswaran					

Science

Science 2

Subject Description	Students learn about electricity and magnetism. Students explore series and parallel circuits and how they are used in the real world. Students will design and undertake a practical investigation related to concepts covered in Year 9 Science, and present methodologies, findings, and conclusions in a scientific poster. Students will learn how to use data to support their discussions and conclusions.					
Assessment	<ul style="list-style-type: none"> • Lab reports • Research reports • Practical investigations • Scientific poster 					
Advice to Students	Prior to completing this subject, students should have completed Year 9 Science in Semester 1. This unit is compulsory for students who wish to pursue science in VCE. Additional incursion/excursion costs will be charged as part of this subject.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Science 2	Pre-VCE Biology Pre-VCE Chemistry Pre-VCE Physics Pre-VCE Psychology	VCE Biology VCE Chemistry VCE Physics VCE Psychology	VCE Biology VCE Chemistry VCE Physics VCE Psychology
Teacher Contact	Ms Nimalini Maheswaran					

Space Science

Subject Description	Through this unit, students learn about how the universe works. They learn about planets, stars, and galaxies. They gain an understanding of the magnitude of the universe in comparison to our solar system. Students learn about theories relating to the beginning and the expansion of the universe.					
Assessment	<ul style="list-style-type: none"> • Lab reports • Research reports • Practical investigations 					
Advice to Students	Prior to completing this subject, students should have completed Year 9 Science in Semester 1. Additional incursion/excursion costs will be charged as part of this subject.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Space Science	Pre-VCE Physics	VCE Physics	VCE Physics
Teacher Contact	Ms Nimalini Maheswaran					

STEM

Digi Tech

Subject Description	<p>In Digi Tech, students are actively engaged in the processes of analysing problems and opportunities, designing, developing and evaluating digital solutions. Students will have the opportunity to fly drones, create an App design and print their App logo using the 3D printers.</p> <p>In groups, students will collaboratively design and create an online website. Students will be exposed to variety of new software such as Gamemaker for making games, Excel for creating spreadsheets, and Infogram for visually displaying data.</p>					
Assessment	<ul style="list-style-type: none"> • Projects, including app, game and website design/creation • Research tasks 					
Advice to Students	This subject is suitable for students looking for further their digital skills, as well as potentially pursue Information Technology subjects in the future.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Digi Tech	Pre-VCE Information Technology	VCE Information Technology	VCE Information Technology
Teacher Contact	Ms Simone Giulieri					

Food Studies

Subject Description	<p>Making sense of recipes, tools of the trade, describing food and food preparation terms are the focus for all tasks in this subject.</p> <p>Practical recipes are mainly baked goods (cakes, pastry, biscuits and bread) as the skills developed can be easily applied to other areas of cooking.</p>					
Assessment	<ul style="list-style-type: none"> • Creating a design brief • Folio of work • Practical activities e.g. preparing recipes 					
Advice to Students	This subject is designed for students interested in cooking, as well as consider VCE Food Studies or VET Hospitality in their future pathway.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Food Studies	Pre-VCE Food Studies VET Hospitality	VCE Food Studies VET Hospitality	VCE Food Studies VET Hospitality
Teacher Contact	Ms Hayley Muxworthy					

STEM

Product Design (Wood)

Subject Description	This unit develops in students the skills necessary to produce useful articles such as shelves. Students investigate, design and manufacture products while acquiring knowledge of timbers and allied materials. Students gain skills at using woodworking hand tools and are also introduced to machines such as drills, sanders, routers and wood lathes.					
Assessment	<ul style="list-style-type: none"> • Projects, including practical construction of items • Design brief • Research tasks 					
Advice to Students	This is a subject that suits students who like to work on designing and making items, as well as those maybe considering a study or future pathway in trades or working with materials.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Product Design (Wood)	Pre-VCE Product Design VET Building and Construction	VCE Product Design VET Building and Construction	VCE Product Design VET Building and Construction
Teacher Contact	Mr Gavin Ellis					

Systems Engineering

Subject Description	In systems engineering, students will gain hands on experience in constructing some simple machines. Students will learn the fundamentals of wiring, soldering of electrical circuits to construct electrical systems. Students will learn how to combine both electrical and mechanical systems to construct these machines. By doing these projects students will learn how to design, plan, build and test a machine.					
Assessment	<ul style="list-style-type: none"> • Projects, including practical construction of items • Design brief • Research tasks 					
Advice to Students	This subjects suits students with an interest in building machinery, as well as using scientific and design thinking to solve problems. It is a great combination of Science and Technologies.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Systems Engineering	Pre-VCE Systems Engineering	VCE Systems Engineering VET Electrotechnology	VCE Systems Engineering VET Electrotechnology
Teacher Contact	Mr Indhiran Padayachee					

STEM

Robotics

Subject Description	Students apply their knowledge of Science, Technology and Mathematics to build and program robots. Students learn basic electronics which is fundamental to understanding any digital systems. They will learn electricity basics such as voltage, current, resistance and how to draw circuit diagrams. They will use Arduino microcontroller to build and program robots. They will explore different programming languages such as Python and C++.					
Assessment	<ul style="list-style-type: none"> • Projects • Research tasks 					
Advice to Students	There will be a materials cost that will be required to be paid by students undertaking this subject.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Robotics	Robotics Pre-VCE Systems Engineering Pre-VCE IT	VCE Systems Engineering VCE Information Technology	VCE Systems Engineering VCE Information Technology
Teacher Contact	Ms Nimalini Maheswaran, Mr Indhiran Padayachee					

Textiles

Subject Description	<p>Students will begin learning about textiles and the design process. Students can build on what they know already or learn the basics. This will include design drawing skills, hand and machine sewing, and how to use or modify and draft a pattern to construct a textiles product for an intended purpose.</p> <p>Students will use design skills and problem-solving skills as they work with a range of materials and equipment, including the integration of electronics. Students will discover the excitement of creating something unique and breaking down stereotypes of a traditional textiles class.</p>					
Assessment	<ul style="list-style-type: none"> • Skills check • Projects including soft toys, upcycled products, garments, props • Design folio 					
Advice to Students	This subject is suitable for students wanting to start their studies in fibre and fashion. It can lead to both VCE and VET Applied Fashion studies.					
Possible Pathways	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12
			Textiles	Pre-VCE Fashion and Fibre	VCE Product Design	VCE Product Design
Teacher Contact	Ms Hayley Muxworthy					

General Advice – Choosing Subjects

Choosing subjects is an important decision, even in Year 9. The choices that students make now can help set up a strong and supportive pathway to a successful future.

Some general advice and reminders when thinking about subjects to choose includes:

- Make sure you have read the Subject Handbook thoroughly
- Don't choose subjects because your friends are choosing them – your subject choices might mean you are in the same subject, but not the same class!
- Don't choose subjects based on the teachers listed as contacts – they may/may not be the teacher of the subject next year!
- Read the Possible Pathways sections to determine if the subject leads to the VCE/VET subjects you are interested in
- Encourage your parents/carers to read the booklet so you can have conversations about pathways and subject choices
- Speak with your Maths teacher to determine the most suitable Maths choice (Core Maths versus Numeracy)
- Speak with your Team Leaders to answer any questions or get feedback about your draft subject choices BEFORE your Course Counselling appointment
- Follow all the steps on the Course Counselling Planning Sheet (available on the final page of the Subject Handbook)

Course Counselling Planning Sheet

Name: _____

Homegroup: _____

STEP 1: Choose the most appropriate English/Maths subjects

Subjects	Subject Choice
English/EAL	<input type="checkbox"/> English <input type="checkbox"/> English as an Additional Language (EAL)
Mathematics	<input type="checkbox"/> Core Maths <input type="checkbox"/> Numeracy

STEP 2: Choose your guided choice subjects (and reserves options)

Subjects	My main preferences	My reserve preferences
Humanities	<i>Tick two (2) subjects below:</i> <input type="checkbox"/> Australia @ War <input type="checkbox"/> Financial Literacy <input type="checkbox"/> Making and Breaking the Law <input type="checkbox"/> Running a Business	<i>Tick one (1) subject as a backup choice:</i> <input type="checkbox"/> Australia @ War <input type="checkbox"/> Financial Literacy <input type="checkbox"/> Making and Breaking the Law <input type="checkbox"/> Running a Business
Science	<i>Tick the one (1) subject you most want to study as your Semester 2 Science:</i> <input type="checkbox"/> Forensic Science <input type="checkbox"/> Medical Science <input type="checkbox"/> Robotics (STEM) <input type="checkbox"/> Science 2 <input type="checkbox"/> Space Science <input type="checkbox"/> Systems Engineering (STEM)	<i>Tick the two (2) subjects you have as your backup choices:</i> <input type="checkbox"/> Forensic Science <input type="checkbox"/> Medical Science <input type="checkbox"/> Robotics (STEM) <input type="checkbox"/> Science 2 <input type="checkbox"/> Space Science <input type="checkbox"/> Systems Engineering (STEM)
<i>Remember: If you wish to study VCE Science subjects, you must select Science 2 as your main preference option!</i>		

STEP 3: Select your free choice subjects (and reserve options)

- Your free choices can come from the Arts, Languages or STEM areas
- If you selected Science 2, you can select up to 1 additional Science subject in your free choices
- Students can also select up to 1 additional Health and PE subject as part of their free choice subjects

My main preferences	My reserve preferences
1	1
2	2
3	Reasons for my choices:
4	