

STRIVE

A collage of eight photographs showing students and teachers engaged in various activities. The top row shows three photos: two girls playing soccer, a girl in a blue shirt gesturing, and three girls working together. The middle row shows two photos: a boy and a girl working on a laptop, and two girls jumping in the air. The bottom row shows three photos: a boy and a girl working on a laptop, a group of girls in aprons in a kitchen, and a group of boys in a workshop. The text 'Semester 1' is overlaid on the middle row.

Semester 1

Curriculum

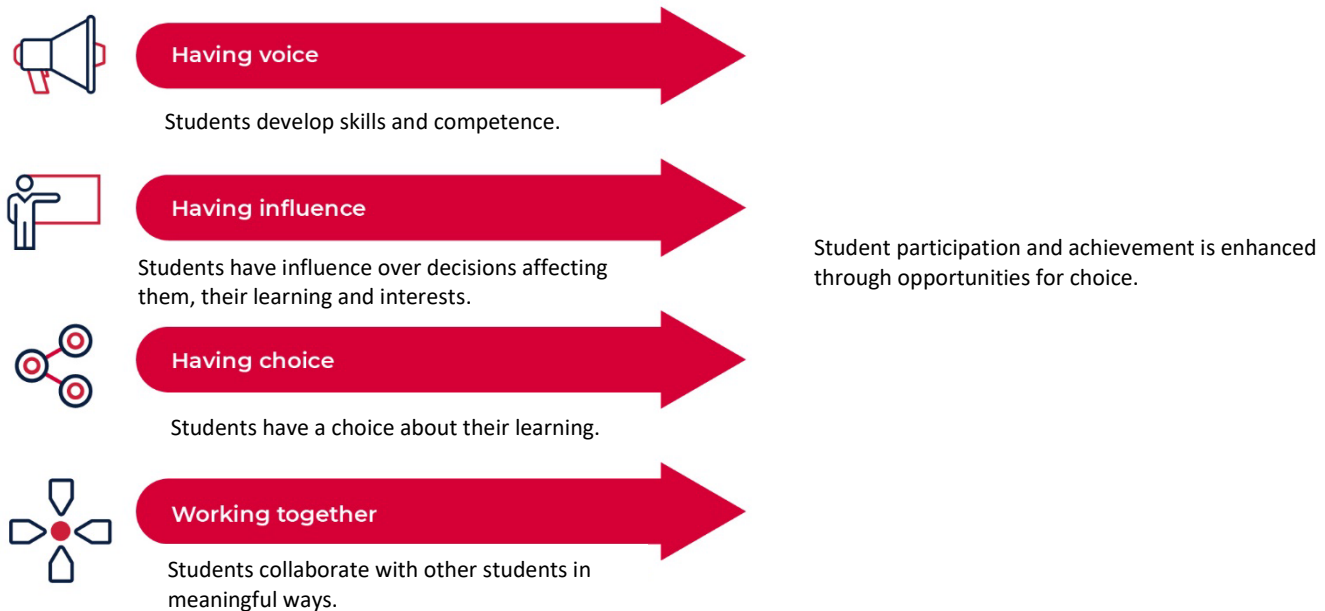
Booklet

2023

Principal's Introduction

As a school it is important that we focus on how a child is smart and not how smart a child is. To enable this, it is important that we offer a range of choices for students. Research has shown us that as students have a greater choice in their future direction, their engagement increases.

Offering a wide choice of subjects allows students the chance to achieve in areas of interest, but success goes far beyond subject choice.



The curriculum organisation described in this book provides such choice. More importantly, it also provides for:

- Units of Study which are in manageable amounts
- Placement at appropriate levels to suit personal performance
- A credential that accumulates results each half year
- Review of progress and adjustment to placement as the need arises.

All these benefits lead to maximum student success and confidence, which in turn fuel student effort for greater achievement.

The Pathways booklet and associated structure have been developed and implemented by staff with support from parents. Overall planning has been carried out by the executive staff in consultation with KLA'S. While sincere thanks are extended to all these dedicated people, their real reward will take the form of widespread student success.

I look forward to sharing the success of our students through the STRIVE program with parents and our wider community.

Mr Anthony Angel
Principal

What is Strive?

This booklet is designed to provide you with all the information you need to make curriculum choices during Stage 5 (Years 9 & 10). This system is known as Strive.

Strive is designed to provide more choice and flexibility for students in the subjects they undertake in their study. Students are provided with the opportunity to undertake a wider variety of subjects, as the number of electives they can undertake increases. Flexibility increases as students are able to choose when they undertake each of the elective units being offered. Students will be able to choose their pattern of study before each semester. Semester 1 is Term 1 & 2. Semester 2 is Term 3 & 4.

To satisfy the requirements of the Record of School Achievement (ROSA) in Year 10, a recommended amount of time is set aside for a range of subjects. The mandatory core units each student will undertake ensures these minimum time requirements are met. In addition to a minimum amount of time being offered for each subject, students need to ensure that they engage in the learning activities offered within each course in a sustained and diligent manner. This means that they complete and submit all classwork and assessment tasks to a satisfactory standard.

Each subject will determine a grade (A – E) for each student to be recorded on their ROSA. This grade will be accumulated across the units undertaken in each course.

Each subject is divided into units. Each unit consists of four periods in a 2 week cycle, each period being 1 hour in length. Each student must successfully complete all Core units throughout the year but will be able to elect to do 4 separate elective units in each semester. The information which follows outlines the core and elective units.

Mandatory Core Units

English	3 units must be completed in each year. One unit must be undertaken in one semester and two (2) in the other.
Maths	3 units must be completed in each year. One unit must be undertaken in one semester and two (2) in the other.
Science	3 units must be completed in each year. One unit must be undertaken in one semester and two (2) in the other.
HSIE	3 units must be completed in each year. One unit must be undertaken in one semester and two (2) in the other.
PDHPE	2 units must be completed in each year. One unit must be undertaken in each semester.
Sport	Participation in school sport on a Thursday afternoon will remain compulsory for all students to meet mandatory requirements.

Elective Units

Each student will be able to elect from a wide variety of elective units each semester. Students who complete 3 units within a subject, across Years 9 & 10, will meet the requirements to have a **100 hour course** to be added to their Record of School Achievement. Students who complete 5 units of a subject across Years 9 & 10, will meet the requirements of a **200 hour course**. Achievement in each course will be tracked across their achievement within each unit undertaken.

Sample Patterns of Study

Student A

Chosen to have a balanced pattern of study across Semester 1 and 2. This pattern of study is recommended for all students. In this example the student is completing 2 English units and 2 Science Units in Semester 1, and 2 HSIE units and 2 units of Maths in Semester 2.

Semester 1	Semester 2
English Unit 1	English Unit 3
English Unit 2	Maths Unit 2
Maths Unit 1	Maths Unit 3
Science Unit 1	Science Unit 3
Science Unit 2	HSIE Unit 2
HSIE Unit 1	HSIE Unit 3
PDHPE Unit 1	PDHPE Unit 2
Elective Unit 1	Elective Unit 5
Elective Unit 2	Elective Unit 6
Elective Unit 3	Elective Unit 7
Elective Unit 4	Elective Unit 8

Student B

In this example the student is completing 2 Maths units and 2 Science Units in Semester 1, and 2 HSIE units and 2 units of English in Semester 2.

Semester 1	Semester 2
English Unit 1	English Unit 2
Maths Unit 1	English Unit 3
Maths Unit 2	Maths Unit 3
Science Unit 1	Science Unit 3
Science Unit 2	HSIE Unit 2
HSIE Unit 1	HSIE Unit 3
PDHPE Unit 1	PDHPE Unit 2
Elective Unit 1	Elective Unit 5
Elective Unit 2	Elective Unit 6
Elective Unit 3	Elective Unit 7
Elective Unit 4	Elective Unit 8



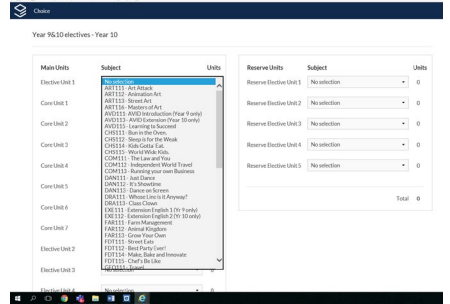
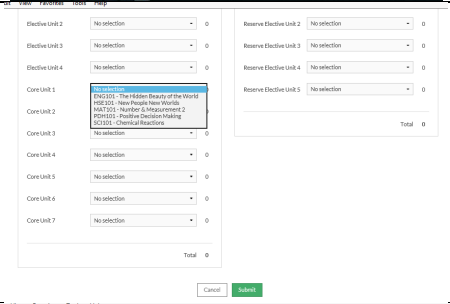
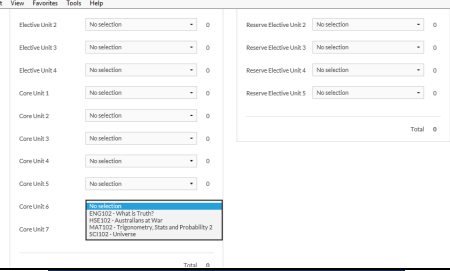
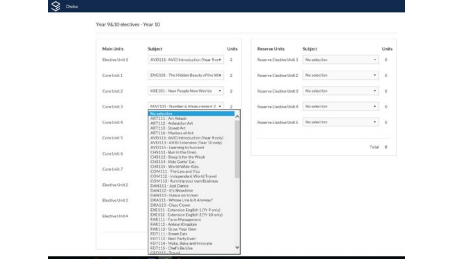
Choosing subjects

To meet the requirements of the NSW Education Standards Authority (NESA) and the Department of Education students need to complete a minimum amount of time in the core subjects of English, HSIE, Maths, PDHPE and Science. When picking subjects students are able to choose whether they undertake 2 of units in Semester 1 or semester 2 (except PDHPE which has 1 unit in each semester). The tables above show how this might look for each semester with different choices.

The focus of the STRIVE program is providing more choice. When making your subject selections you will be asked to pick your top elective unit first. This raises the priority of these and means the computer program places these first and the Core units after. When using this booklet you need to be aware of which units are being run in each semester. Some run in both, others just in Semester 1 or 2. **If you choose electives that**

you have undertaken already you will be asked to resubmit your choices with uncompleted units only. If a significant number of students choose a particular course, this will be offered multiple times across the week. As is normally the case with elective choices, it is student choice that determines which classes run based on the number of students who elect each course. As a result students are asked to enter 5 reserve elective units so that where a subject is not being offered these reserve choices become active for them.

After choices are entered, the timetable program will allocate students to units and classes. Where a student's choices are not matched by what is being offered each semester, students will meet with a curriculum adviser and be able to pick from subjects that are being offered.

	<p>You will be given a code on sheet. Enter the address into the web browser and then enter your unique code into the space and click onto the Sign In bar.</p>
	<p>You will need to click on the open for submission link on the STRIVE Semester 1 electives box.</p>
	<p>The first choice you are asked to make is your most preferred elective unit. It will appear in the list in order of their codes and you can scroll down the list to find the unit you have chosen. It is important that you make sure you pick this as the one you most want to do. YEAR 10 - YOU SHOULD NOT CHOOSE UNITS YOU HAVE ALREADY DONE.</p>
	<p>After completing the first elective you will be asked to pick each of the 5 Core units which must be undertaken in the semester. While the order you pick these is not important, you need to pick each one. By having these as choices rather than just putting you into classes there is a great deal more flexibility to provide you with the electives you want to do.</p>
	<p>After choosing your 5 compulsory core units you will be asked to pick 2 other core units. Whatever you pick here you will need to UNDERTAKE THE OTHER 2 DURING SEMESTER 2.</p>
	<p>After all the compulsory units are added you will then be able to pick your next 3 elective units. It is very important that you make sure you pick these in preference order. YEAR 10 - YOU SHOULD NOT CHOOSE UNITS YOU HAVE ALREADY DONE.</p>

Year 9&10 electives - Year 10			
Main Units	Subject		Units
Effective Unit-1	No selection	-	0
Effective Unit-2	No selection	-	0
Effective Unit-3	No selection	-	0
Effective Unit-4	No selection	-	0
Care Unit-1	No selection	-	0
Care Unit-2	No selection	-	0
Care Unit-3	No selection	-	0
Care Unit-4	No selection	-	0
Care Unit-5	No selection	-	0
Care Unit-6	No selection	-	0
Care Unit-7	No selection	-	0

Reserve Units	Subject	Units
Reserve Election Unit-1	ART111-Visual Design	1
	ART112-Art Design	1
	ART113-Drawing Arts	1
Reserve Election Unit-2	AVID110-Master of Art	1
	AVID111-AVIG Introduction (Year 9 only)	1
	AVID112-AVIG Extension (Year 10 only)	1
	AVI113-Learning to Succeed	1
	CHB111-Basic Chinese	1
Reserve Election Unit-3	CHB114-Kids Go! Eat!	1
	CHB115-Kids Write Eat!	1
Reserve Election Unit-5	COM111-The Law and You	1
	COM112-Worship and Beliefs	1
	COM114-Marketing Towards Business	1
	COM118-Marketing Towards Individuals	1
	CON111-Economics and your wellbeing	1
	CON114-Commerce Mysteries	1
	CON117-Pricing Mystery	1
	DAM111-So Why Think You Can Dance?	1
	DAM113-Dance Performance	1
	DAM114-TV Showdown	1
	FOT111-Fair Diction Grab	1
	FOT112-Real Party Fun!	1
	FOT114-Make, Bake and Decorate	1
	GEO111-Cover Up!	1
	GEO113-Travel	1
	GEO115-Oceanography	1
	GEO117-Globetrotters	1

The final step in the selection process is to pick reserve elective units. These will be used to fill up the electives if your first choices are not running or are being run at the same time. Once again you need to ensure that you pick these in the order that you prefer to do them. You are asked to pick up to 5 reserve units. If you have gaps in your pattern of study you will meet with a teacher to discuss the options available for you. **YEAR 10 - YOU SHOULD NOT CHOOSE UNITS YOU HAVE ALREADY DONE.**

Core Units

Year 9	Compulsory Units (Core)	Semester 1	Semester 2
English	ENG901 - Everyone's a Critic (and that's a good thing)	✓	X
	ENG902 - Teens in Texts	✓	✓
	ENG903 - The smell of grease paint	X	✓
HSIE	HSE901 - Sustaining Our World	✓	X
	HSE902 - The Urban Jungle	✓	✓
	HSE903 - New People New Worlds	X	✓
Maths (Mainstream)	MAT901 - Number & Measurement 1	✓	X
	MAT902 - Trigonometry, Stats and Probability 1	✓	✓
	MAT903 - Algebra & Geometry 1	X	✓
Maths (Advanced stream)	MAA901 - Number & Measurement 1 (Advanced)	✓	X
	MAA902 - Trigonometry, Stats and Probability 1 (Advanced)	✓	X
	MAA903 - Algebra & Geometry 1 (Advanced)	X	✓
PDHPE	PDH901 - All About You	✓	X
	PDH902 - Nutrition and Wellbeing	X	✓
Science	SCI901 - Ecosystems and Change	✓	X
	SCI902 - Light, Sound and Motion	✓	✓
	SCI903 - Earth	X	✓

Year 10	Compulsory Units (Core)	Semester 1	Semester 2
English	ENG101 - The Hidden Beauty of the World	✓	X
	ENG102 - What is Truth?	✓	✓
	ENG103 - May Your Pen Grace the Page	X	✓
HSIE	HSE101 - Diversity and Difference	✓	X
	HSE102 - Australians at War	✓	✓
	HSE103 - Rights and Freedoms	X	✓
Maths (Mainstream)	MAT101 - Number & Measurement 2	✓	X
	MAT102 - Trigonometry, Stats and Probability 2	✓	✓
	MAT103 - Algebra & Geometry 2	X	✓
Maths (Advanced stream)	MAA101 - Number & Measurement 2 (Advanced)	✓	X
	MAA102 - Trigonometry, Stats and Probability 2 (Advanced)	✓	X
	MAA103 - Algebra & Geometry 2 (Advanced)	X	✓
PDHPE	PDH101 - Positive Decision Making	✓	X
	PDH102 - Meeting Future Challenges	X	✓
Science	SCI101 - Chemical Reactions	✓	X
	SCI102 - Universe	✓	✓
	SCI103 - Evolution and Heredity	X	✓

Elective Units

Course	Elective Units	Fee	Semester 1	Semester 2
AVID	AVD111 - AVID Introduction (Year 9 AVID students only)	Nil	✓	X
	AVD112 - AVID Expansion (Year 9 AVID students only)	Nil	X	✓
	AVD113 - AVID Extension (Year 10 AVID students only)	Nil	✓	X
	AVD114 - AVID Consolidation (Year 10 AVID students only)	Nil	X	✓
	AVD115 - Learning to Succeed	Nil	✓	✓
Child Studies	CHS111 - Bun in the Oven.	\$15	✓	X
	CHS112 - Sleep is for the Weak	\$15	✓	✓
	CHS113 - Play, Learn, Grow	\$15	X	✓
	CHS114 - Kids Gotta' Eat	\$15	✓	X
	CHS115 - World Wide Kids.	\$15	✓	✓
	CHS116 - Learn it to Earn it	\$15	X	✓
Commerce	COM111 - The Law and You	Nil	✓	✓
	COM112 - Independent World Travel	Nil	✓	✓
	COM113 - Running your own Business	Nil	✓	✓
	COM114 - How to Make Money Fast	Nil	✓	✓
	COM115 - Marketing	Nil	X	✓
Dance	DAN111 - Just Dance	\$10	✓	X
	DAN114 - Dance Performance	\$10	X	✓
Drama	DRA111 - Whose Line Is It Anyway?	Nil	✓	X
	DRA112 - Working Out Your Excess Energy in Easy Steps	Nil	X	✓
	DRA113 - Class Clown	Nil	✓	X
	DRA114 - Behind the Curtain	Nil	X	✓
English	ENG111 - Extension English (Year 10 only)	Nil	✓	✓
	ENG112 – How to Get Away With Murder	Nil	✓	✓
Food Technology	FDT111 - Street Eats	\$30	✓	X
	FDT112 - Best Party Ever!	\$30	✓	✓
	FDT113 - Food for the Win	\$30	X	✓
	FDT114 - Make, Bake and Innovate	\$30	✓	X
	FDT115 - Chef's Be Like	\$30	✓	✓
	FDT116 - Fashionable Food	\$30	X	✓
	FDT117 - Outdoor Foodies	\$30	✓	✓
	FDT118 – Advanced Food Technology (Year 10 only)	\$30	X	✓
Geography	GEO111 - Travel	Nil	✓	X
	GEO112 - Oceanography	Nil	X	✓
	GEO113 - Unique Global Environments and Places	Nil	X	✓
	GEO114 - Geography Mysteries	Nil	✓	X
	GEO115 - Mining Gold from Australia's Resources	Nil	✓	✓
Graphics Technology	GRA113 – Computer Aided Manufacture	\$10	✓	✓
	GRA114 – Computer Aided Drawing and Design	\$10	✓	✓
	GRA116 – Photo, Video and Animation	\$10	✓	✓
History	HIS111 - Ancient Mythology	Nil	✓	✓
	HIS112 - Disasters that changed the World	Nil	✓	✓
	HIS113 - Sport and Recreation	Nil	X	✓
	HIS114 - All Roads lead to Rome	Nil	X	✓
Industrial Technology - Engineering	ITG112 - The Need For Speed (Transportation)	\$15	✓	✓
	ITG113 - Build a Bridge & Get Over It (engineering structures)	\$15	✓	✓
	ITG114 - Futuristic Manufacturing (STEM Machine technologies)	\$15	✓	✓
Industrial Technology - Metal	ITM111 - Build a Barbeque!	\$25	✓	✓
	ITM112 - Jewellery Making	\$25	✓	✓

Industrial Technology - Timber	ITT112 – Woodworking Beginners	\$25	✓	X
	ITT114 – Dovetails, Dowels and Dados	\$25	✓	✓
	ITT115 – Tenons, Turning and Tapers	\$25	✓	✓
	ITT116 – Woodworking Advanced (Year 10 only)	\$25	X	✓
Language	LAN 111 - Fuji Food Festival	Nil	✓	X
	LAN 112 - Navigating Japan	Nil	✓	X
	LAN 113 - Leisure and recreation in Japan	Nil	X	✓
	LAN 114 - Popyura karuchaa: (Pop-culture)	Nil	X	✓
Marine Studies	MAR111 - Dangerous Marine Creatures	\$5	✓	✓
	MAR112 - Marine Water Sports	\$5	✓	X
	MAR113 - Salt Water Aquariums and Aquaponics	\$5	✓	X
	MAR114 - Shipwrecks and the Abyss	\$5	X	✓
	MAR115 - Marine Mysteries	\$5	X	✓
	MAR116 - Fishing	\$5	✓	✓
Mathematics	MAT111 - Maths Tutorial	Nil	✓	✓
	MAT112 - Maths Advanced Prep (Year 9 only)	Nil	X	✓
	MAT113 - Maths Advanced Prep (Year 10 only)	Nil	X	✓
Motivate 2 STRIVE	MTS111 – Assessment Support 1	Nil	✓	X
	MTS112 – Assessment Support 2	Nil	X	✓
Music	MUS114 - I'm With The Band	Nil	✓	X
	MUS116 - School Of Rock	Nil	X	✓
Outdoor Education	ODE111 - The Great Outdoors	\$20	✓	X
	ODE112 – Outdoor Expedition	\$20	X	✓
PASS - Physical Activity and Sports Studies	PAS111 - The Body In Motion	\$10	✓	X
	PAS112 - Sporting Nation	\$10	X	✓
	PAS113 - Sport Leadership	\$10	✓	X
	PAS114 - Improving Performance	\$10	X	✓
	PAS115 - Active Lifestyles	\$10	✓	✓
	PAS116 - Football codes	\$10	✓	X
Science	SCI111 - Science Magic	Nil	✓	X
	SCI112 - Wizz, Bang, Pop	Nil	X	✓
	SCI113 - Bionics and the Body	Nil	X	✓
	SCI114 - Rocks, Rocks, Rocks	Nil	✓	X
	SCI115 - From the Big Bang to Life	Nil	✓	X
	SCI116 - From Early Humans to the Future	Nil	X	✓
Visual Art	ART111 - Art Attack	\$20	✓	X
	ART112 - Animation Art	\$10	✓	X
	ART113 - Street Art	\$20	✓	X
	ART114 - Culture Kings	\$25	X	✓
	ART115 - Choose Your Own ARTventure	\$10	X	✓
	ART116 - Masters of Art	\$20	X	✓
Work Education	WKS111 - Construction Employment Pathways	\$10	✓	X
	WKS112 - Business & Retail Employment Pathways	\$10	✓	X
	WKS113 - Health Employment Pathways	\$10	✓	X
	WKS114 - Childcare Employment Pathways	\$10	X	✓
	WKS115 - Defence Employment Pathways	\$10	X	✓
	WKS116 - Hospitality Employment Pathways	\$10	X	✓
	WKS117 - 2.0 Employment Pathways	\$10	✓	✓

English

Compulsory Year 9 Units

ENG901 – Yr 9 Unit 1 - Everyone's a Critic - and that's a good thing! (This unit must be completed in Semester 1)

Understanding and critiquing the books that line the bookshelves of the world's bookshops is no easy task. Some of the greatest minds in academia and literary criticism, as well as writers themselves, have attempted to define what makes good literature, or just what makes literature. In this unit, students will ask; what makes a great novel? How can we develop a way to judge the success of a novelist's work?

ENG902 – Yr 9 Unit 2 - Teens in Texts (This unit must be completed in either Semester 1 or 2)

In this unit students will analyse and evaluate how teens are represented in film and other multimodal texts. They examine how social values and beliefs, codes and conventions contribute to construct the teenage character and their identity. They will analyse the technical and symbolic elements that contribute to representation, stereotypes and identity. They will integrate technical and symbolic elements into their own three-minute group film, as part of an assessment.

ENG903 – Yr 9 Unit 3 - The Smell of Grease Paint (This unit must be completed in Semester 2)

In this unit, students will explore drama from the great Bard to a more contemporary playwright. Through their study, students will examine how humans have grappled with what it means to be a human through performance.

Compulsory Year 10 Units

ENG101 – Yr 10 Unit 1 - The Hidden Beauty of the World (This unit must be completed in Semester 1)

"Poetry lifts the veil from the hidden beauty of the world". Do you ever feel as though you are swimming upstream trying to understand poetry? In this unit, students will learn how to interpret the poetry of a single poet, considering the beauty of their words.

ENG102 – Yr 10 Unit 2 - What is Truth? (This unit must be completed in either Semester 1 or 2)

This unit will pose the question 'what's the truth?' Students will investigate the role of authority and determine 'truths' through film, short stories and podcasting. Students will compose written and spoken texts and undertake a genre study as part of this program.

ENG103 – Yr 10 Unit 3 - May Your Pen Grace the Page (This unit must be completed in Semester 2)

This unit engages students with a range of forms of imaginative writing. As students read and write a range of texts, they develop skills in language, narrative and creativity. Students will be encouraged to develop their writer's eye, to keep a writing journal, and to make disciplined use of the revision process. The unit will introduce students to the professional field of writing and publishing, and will also develop their abilities to create and participate in a writing community.

HSIE

(Human Society and Its Environment)

Compulsory Year 9 Units

HSE901 – Yr 9 Unit 1 - Sustaining Our World

(This unit must be completed in Semester 1)

Students examine the physical characteristics and productivity of biomes. They also develop an understanding of the functioning of the environment and how we can effectively manage them.

HSE902 – Yr 9 Unit 2 - The Urban Jungle

(This unit must be completed in either Semester 1 or 2)

Students examine the patterns and trends in population movements and the increasing urbanisation of countries. Students also investigate the impact of environmental challenges on these urban environments.

HSE903 – Yr 9 Unit 3 - New People, New Worlds

(This unit must be completed in Semester 2)

This unit offers an in depth look into the making of the Modern World. Two depth studies are explored The Industrial Revolution and its impact on the movement of peoples throughout the world, including the transatlantic slave trade.

Compulsory Year 10 Units

HSE101 – Yr 10 Unit 1 - Diversity and Difference

(This unit must be completed in Semester 1)

Students learn about the nature of and differences in human wellbeing and development that exist within and between countries. They examine the issues affecting development and the initiatives to improve wellbeing.

HSE102 – Yr 10 Unit 2 - Australians at War

(This unit must be completed in either Semester 1 or 2)

This unit of study focuses on Australia's involvement in WWI and WWII. Students explore various aspects such as the causes of both wars, the nature of warfare, the Australian Campaign, Women in Wartime and the Western Front.

HSE103 – Yr 10 Unit 3 - Rights and Freedoms

(This unit must be completed in Semester 2)

This unit is a study of Australia's struggle for Indigenous peoples fight for Rights and Freedoms. Students explore various concepts of civil rights and activism, the experiences of the Stolen Generation, the US civil rights movement and its impact on Australia. A decade study in Australia is also completed exploring themes of fashion, trends, technology, events and their impact on Australian Society.

Mathematics (Year 9)

The Mathematics Faculty is offering students the opportunity to undertake Advanced units in Mathematics in Year 9. Students who should choose these units will receive an invitation and information sheet from their teacher prior to the subject selection evening. Please choose your Maths electives carefully.

Compulsory Year 9 Units (Mainstream)

MAT901 – Yr 9 Unit 1 - Number & Measurement 1

(This unit must be completed in Semester 1)

In this unit students will consolidate number skills, apply numbers to solve problems involving financial maths and solve problems involving area, surface area and volume.

MAT902 – Yr 9 Unit 2 - Trigonometry, Stats and Probability 1

(This unit must be completed in either Semester 1 or 2)

In this unit students will develop skills in interpreting and understanding statistics in the real world. Students will solve problems involving chance and will develop trigonometric skills to solve problems involving right-angled triangles.

MAT903 – Yr 9 Unit 3 - Algebra & Geometry 1

(This unit must be completed in Semester 2)

In this unit students will consolidate basic algebraic techniques and apply these skills to solve problems involving indices and equations. Students will investigate the properties of basic geometrical figures.

Compulsory Year 9 Units (Advanced stream)

MAA901 – Yr 9 Unit 1 - Number & Measurement 1 (Advanced)

(This unit must be completed in Semester 1)

This unit is designed for advanced students only and will look at the Stage 5.1/5.2 & 5.3 outcomes associated with Number and Measurement. Students completing this course are expected to take MAA902 in semester 1 also and the Advanced Prep MAT112 course in semester 2.

MAA902 – Yr 9 Unit 2 - Trigonometry, Stats and Probability 1 (Advanced)

(This unit must be completed in Semester 1)

This unit is designed for advanced students only and will look at the Stage 5.1/5.2 & 5.3 outcomes associated with Trigonometry, Statistics and Probability. Students completing this course are expected to take the Advanced Prep MAT112 course in semester 2.

MAA903 – Yr 9 Unit 3 - Algebra & Geometry 1 (Advanced)

(This unit must be completed in Semester 2)

This unit is designed for advanced students only and will look at the Stage 5.1/5.2 & 5.3 outcomes associated with Algebra and Geometry. Students completing this course are expected to take the Advanced Prep MAT112 course in semester 2.

Mathematics (Year 10)

The Mathematics Faculty is offering students the opportunity to undertake Advanced units in Mathematics in Year 10. Students who should choose these units will receive an invitation and information sheet from their teacher prior to the subject selection evening. Please choose your Maths electives carefully.

Compulsory Year 10 Units (Mainstream)

MAT101 – Yr 10 Unit 1 - Number & Measurement 2

(This unit must be completed in Semester 1)

In this unit students will build on the knowledge and skills from Number & Measurement 1. Students will consolidate number skills, apply numbers to solve problems involving financial maths and solve problems involving area, surface area and volume.

MAT102 – Yr 10 Unit 2 - Trigonometry, Stats and Probability 2

(This unit must be completed in either Semester 1 or 2)

In this unit students will build on the knowledge and skills from Trigonometry, Stats and Probability 1. Students will develop skills in interpreting and understanding statistics in the real world. Students will solve problems involving chance and will develop trigonometric skills to solve problems involving right-angled triangles.

MAT103 – Yr 10 Unit 3 - Algebra & Geometry 2

(This unit must be completed in Semester 2)

In this unit students will build on the knowledge and skills from Algebra & Geometry 1. Students will consolidate basic algebraic techniques and apply these skills to solve problems involving indices and equations. Students will investigate the properties of basic geometrical figures.

Compulsory Year 10 Units (Advanced stream)

MAA101 – Yr 10 Unit 1 - Number & Measurement 2 (Advanced)

(This unit must be completed in Semester 1)

This unit is designed for advanced students only and will look at the Stage 5.1/5.2 & 5.3 outcomes associated with Number and Measurement. Students completing this course are expected to take MAA102 in semester 1 also and the Advanced Prep MAT113 course in semester 2.

MAA102 – Yr 10 Unit 2 - Trigonometry, Stats and Probability 2 (Advanced)

(This unit must be completed in Semester 1)

This unit is designed for advanced students only and will look at the Stage 5.1/5.2 & 5.3 outcomes associated with Trigonometry, Statistics and Probability. Students completing this course are expected to take the Advanced Prep MAT113 course in semester 2.

MAA103 – Yr 10 Unit 3 - Algebra & Geometry 2 (Advanced)

(This unit must be completed in Semester 2)

This unit is designed for advanced students only and will look at the Stage 5.1/5.2 & 5.3 outcomes associated with Algebra and Geometry. Students completing this course are expected to take the Advanced Prep MAT113 course in semester 2.

PDHPE

(Personal Development, Health and Personal Development)

Compulsory Year 9 Units

PDH901 – Yr 9 Unit 1 - All About You

(This unit must be completed in Semester 1)

Theory units are The Best of You in Term 1, exploring issues around self-identity, resilience and overcoming adversity. The Term 2 unit is Let's talk about Sex, where we discuss relationships and sexual health issues including consent, STIs and methods of contraception. Practical units follow the sequence of Athletics, Fundamental Movement Skills and Fitness goals, with Invasion Games (Touch Football & Ultimate Frisbee) and Dance addressed in Term 2.

PDH902 - Nutrition and Wellbeing

(This unit must be completed in Semester 2)

Theory units are Food for Thought, where we investigate issues around nutrition and dietary balance, and Lifetime Health and Wellbeing where we explore how to maintain positive health practices in our future years. Practical units are Court and Net Games, (Basketball & Volleyball) followed by Striking Games (Softball) and Recreational Activities.

Compulsory Year 10 Units

PDH101 – Yr 10 Unit 1 - Positive Decision Making

(This unit must be completed in Semester 1)

Theory Units are Road Safety & Alcohol and Drug Issues in Term 1, exploring the skill required to keep ourselves safe in these contexts. The Term 2 is Future Focus, where we explore responsibilities of adulthood, along with transitioning into the work force. Practical units follow the sequence of Athletics, Initiative & Challenge games, Gymnastics, Invasion Games (AFL & Soccer) and Cultural activities.

PDH102 – Yr 10 Unit 2 – Meeting Future Challenges

(This unit must be completed in Semester 2)

Theory units are Mental Health and Wellbeing in Term 3, where we investigate current issues and a range of coping strategies for young people. In Term 4 we do Health Advocacy, where students explore health issues for young people and our ability to access health services. Practical units are Court and Net games, (Netball & Badminton/Tennis) followed by Striking Games (Cricket) and Lifelong Physical Activities to close the year.

Science

Compulsory Year 9 Units

SCI901 – Yr 9 Unit 1 - Ecosystems and Change

(This unit must be completed in Semester 1)

This unit explores the dynamic nature of a range of the Earth's many different ecosystems. The ways in which complex multi-cellular organisms can maintain equilibrium and respond to changes in the environment, while being in a constant state of change are investigated. The flow of energy and matter through organisms and whole ecosystems is further explored.

SCI902 – Yr 9 Unit 2 - Light, Sound and Motion

(This unit must be completed in either Semester 1 or 2)

The wave and particle models are used as a unifying theme linking several physical phenomena and processes. This unit begins with an exploration of processes involving the transfer of heat. The importance of sound and light as organisms sense the world around them through hearing and vision. Light as a form of electromagnetic radiation, and static and circuit electricity are investigated. Energy transfers and transformations are explored in the context of moving objects in Motion. The principal of energy conservation and laws of physics, such as Newton's laws, are used to explain the behaviour of moving objects in the presence of unbalanced forces. The concepts of work and energy degradation, particularly in processes involving the transfer of heat, are explored in the context of societal energy use and demand.

SCI903 – Yr 9 Unit 3 – Earth

(This unit must be completed in Semester 2)

This unit explores the Earth's structure and climate through a systems-based approach. The process of plate tectonics is investigated leading to an understanding of how continental and oceanic features of the Earth came about. The Earth's climate is investigated, both as a system of interactions involving the biosphere, lithosphere, hydrosphere and atmosphere. It is also explored as a complex social issue with respect to human effects on the Earth's oceans and atmosphere.

Compulsory Year 10 Units

SCI101 – Yr 10 Unit 1 - Chemical Reactions

(This unit must be completed in Semester 1)

This unit extends students' experience and understanding of atoms and atomic structure and its relationship to chemical processes. A range of chemical reactions, including combustion and reactions of acids, are studied and students learn to represent these using chemical symbols, formulae and equations. Students are also introduced to some nuclear reactions and the radiation they produce. The importance of energy transfer in all these processes is emphasized. Rates of reactions and energy transfer are also investigated. Properties and reactivity of elements are related to their position in the periodic table and their atomic structure. The importance of many chemical reactions and processes to society is highlighted.

SCI102 – Y10 Unit 2 – Universe

(This unit must be completed in either Semester 1 or 2)

This unit explores several contemporary areas of science experiencing substantial new discoveries with the development of new ideas, such as the Big Bang Theory. Major features of the visible universe, including galaxies stars and our solar system, are investigated. This unit also explores how, in some cases, these advances involve large, international teams and significant funding. It also investigates how advances in telescopes and other technologies are transforming the way we think of our place in the universe. The unit concludes with an exploration of the interaction between advancing science and social policy and ethics.

SCI103 – Yr 10 Unit 3 - Evolution and Heredity

(This unit must be completed in Semester 2)

This unit explores how the diversity of living things on Earth is explained through the theory of evolution by natural selection. Changes to DNA and genes through mutations are identified as a source of genetic variation. The mechanism of sexual reproduction is investigated as a process essential for passing heritable characteristics from one generation to the next, enabling the inheritance of a unique set of characteristics from both parents while maintaining genetic variation in the population. Advances in biotechnology are also explored.

AVID

(Advancement Via Individual Determination)

AVD111 - AVID Introduction (Year 9 Semester 1 - AVID students only)

In this unit, students will refine their skills and knowledge of WICOR strategies to achieve learning success in all of their school subjects. Students will also be supported to set both academic and personal goals and will also engage with a range of guest speakers and university excursions to enhance their tertiary and work readiness. Students will also learn to solve their points of confusion (POCs) through their engagement in the 10 steps of the AVID Tutorial Process with university tutors once a week.

AVD112 - AVID Expansion (Year 9 Semester 2 - AVID students only)

In this unit, students will continue to expand on their repertoire of WICOR strategies to achieve and maintain learning success in all of their school subjects. Throughout this unit, students will continue to engage with a range of guest speakers and university excursions to enhance their tertiary and work readiness. With a focus on success in assessment, students will also work to solve their increasingly complex points of confusion (POCs) through their engagement in the 10 steps of the AVID Tutorial Process with university tutors once a week.

AVD113 - AVID Extension (Year 10 Semester 1 - AVID students only)

In this unit, students will extend their knowledge of WICOR strategies by engaging in a range of whole school and community projects. Students will also learn a range of effective study strategies and they will reflect on their achievement in past years to set and monitor goals. Throughout this unit, students will continue to engage with a range of guest speakers and university excursions to enhance their tertiary and work readiness. With a focus on success in assessment, students will also use their knowledge of the tutorial process to learn how to engage in Collaborative Study Groups (CSG's) which they will use in Stage 6 and beyond.

AVD114 - AVID Consolidation (Year 10 Semester 2 - AVID students only)

In this unit, students will consolidate their learning over the past three years to support them to achieve academic success in Stage 6 and beyond. Students will also engage with effective study strategies as well as key organisational skills and tools for HSC success. Throughout this unit, students will continue to engage with a range of guest speakers and university excursions to enhance their tertiary and work readiness. Students will also engage in Collaborative Study Groups (CSG's) with university tutors once a week.

AVD115 - Learning to Succeed (Open to all students)

In this unit, students will learn strategies, skills and knowledge that will help them to be 'HSC, University and/or Work Ready'. To immerse students in the realities of university and work life, they will engage in a range of university and workplace excursions and will also be exposed to a range of career and guest speakers. Students will learn 'How' to study and learn effectively and will also be supported to set both academic and personal goals which will help them to achieve HSC, Work and University success.

Child Studies

CHS111 - Bun in the Oven

(Semester 1 only)

Students will discover the stages of pregnancy, the changes a female body will go through during this experience and changes to lifestyle once a person becomes pregnant. Discover all the different stages including baby's first scan, gender reveal and the different types of birth that are available.

CHS112 - Sleep is for the Weak

Students will discover the importance of looking after a newborn; from the first few days of life, to the basic daily needs, e.g. bathing, sleeping, settling, feeding and hygiene. Students will gain experience with the virtual baby program, where they will have the option to look after one of the virtual babies that are used for the Child Studies Program. Students will also gain an understanding of the growth and development of the newborn child.

CHS113 - Play, Learn, Grow

(Semester 2 only)

Students will develop an understanding of how a child learns and develops through play. A child's skills develop rapidly while they are young, and this is explored in the unit. Students learn the importance of play-based learning and explore its value to the development of the child. Students will be able to outline the characteristics of effective and enjoyable play and investigate how play can support inclusion and provide opportunities for children to build and contribute to cohesive groups, e.g. promoting fairness, taking turns.

CHS114 - Kids Gotta' Eat

(Semester 1 only)

Plan, design, experiment and cook with food to create meals and snacks for kids. Find out why nutrition is so important for a growing child and how to get kids eating healthy.

CHS115 - World Wide Kids

Pregnancy belly and virtual babies will be used in this unit. Learn about the influence of culture on the health and wellbeing of children and recognise that all children have strengths, and talents, and the potential to learn and develop given the appropriate opportunities.

CHS116 - Learn it to Earn it

(Semester 2 only)

Students will be able to identify the range of childcare services available and assess their suitability. There will be opportunities to visit local childcare establishments and discover the work duties involved in working at one of these centres.

Commerce

COM111 - The Law and You

Do you know your legal rights and responsibilities as an Australian citizen? Students explore Australia's legal system, learning about the need for laws and how laws are created. They also develop their understanding of the impact of law on individual and society. Students learn about their rights with online purchases and rights within contracts.

COM112 - Independent World Travel

Open up a world of travel! Students learn how to be informed and financially savvy travellers, gaining the knowledge to independently plan trips, organise an itinerary and travel budgets. They investigate about potential issues when travelling and what to do if they occur. Students will also gain the essential skills necessary to live independently, such as finding somewhere to live and managing their finances.

COM113 - Running Your Own Business

Ever wondered what it would be like to run your own business? Students will have hands on experience to develop the knowledge and skills needed to develop products, market them effectively and sell them to turn a profit. Students will be provided with the opportunity to trade as their own business at school.

COM114 - How to Make Money Fast

Money, money, money! Students learn about the range of investment options and how they make wise investment decisions to make money. They learn the seven principles to investing wisely. They also learn about managing finances when running a business to maximise profits.

COM115 - Marketing

(Semester 2 only)

Students investigate the promotion and selling of goods and services including social, ethical and environmental considerations. They analyse the strategies that sellers use to promote products and maximise sales, and evaluate the impact on consumers. Students develop and implement marketing strategies to create their own marketing plan and then put it into action to test its effectiveness.

Dance

DAN111- Just Dance

(Semester 1 only)

Do you like creating and practicing dances? Learn how to create unique choreography and explore different styles of dance. In this unit you will be working both individually and collaboratively to choreograph a group dance to the music of your choice.

DAN114 - Dance Performance

(Semester 2 only)

Are you ready to hit the stage? In Dance Performance you will learn to refine your dance technique and body skills, then you will showcase your skills by performing a new dance work at a special dance event!

Drama

DRA111 – Whose Line Is It Anyway?

(Semester 1 only)

Have you ever rehearsed your Oscars speech in front of the mirror? Do you want to be famous? This unit introduces dramatic terms and ways of performing and building confidence when performing in front of an audience. Students will learn by participating in acting exercises and making plays through improvisation, mime and movement.

DRA112 - Working Out Your Excess Energy in Several Easy Steps

(Semester 2 only)

Do you want to build your confidence, creative thinking, and ability to collaborate? What about imagination and open-mindedness? This unit develops skills in improvisation, theatresports and playbuilding. Students will become familiar with the building blocks of performance, street and physical theatre will be the focus style of this unit

DRA113 - Class Clowns

(Semester 1 only)

Are you funny? Would you like to be funnier? Class Clowns will focus on the comedy on stage from clowning to melodrama. Physical skills, timing, characterisation and scripting will be explored

DRA114 - Behind the Curtain

(Semester 2 only)

This unit will focus on everything that happens off stage in drama performance, from sound engineering to costume and set design. If you've always wanted to be in the theatre but were too afraid to act, this is the course for you!

English Elective Units

ENG111 – English Extension

Recommended for students wishing to study English at the Advanced level for the HSC. Students will be introduced to a variety of challenging and sophisticated texts, considering their historical, social and personal contexts, and develop their essay and imaginative writing skills.

ENG112 – How to Get Away with Murder

In this unit, students will study a range of crime fiction stories, gaining detailed knowledge of one of the most popular and widely read literary genres. Students will have opportunities to solve a crime, interviewing suspects and presenting their findings to the experts.

Food Technology

FDT111 – Street Eats

(Semester 1 only)

Students investigate the wide range of foods eaten by Australians. Students will plan and prepare many food products which reflect the eclectic nature of Multicultural Australian cuisine, and the street food trend.

FDT112 - Best Party Ever!

(Semester 1 only)

Food is an important component of many special occasions. Students will study both small- and large-scale catering by planning and preparing appropriate food products to be served at a celebration.

FDT113 - Food for the Win

(Semester 2 only)

Food plays a vital role in everybody's life. The food needs of each individual vary and can be one of the most important components when it comes to living your best life! Students will investigate, plan and prepare a variety of delicious and nutritional food products which meet the needs of individuals.

FDT114 - Make, Bake and Innovate

(Semester 1 only)

An ever-increasing variety of food products are available in the marketplace as a result of food product innovations. Students examine the reasons for developing food products and the impact of past and present food product innovations on society. They will explore the processes in food product development and develop, produce and evaluate food products.

FDT115 - Chef's Be Like

Food Service and Catering are important areas of the Food Industry. Throughout history there have always been occasions where non-family members prepared meals for the family. Travellers have always needed food and accommodation. Students will examine food service and catering ventures and their operations across a variety of settings and investigate employment opportunities. Students will plan and prepare safe and appealing foods appropriate for catering for small- or large-scale functions.

FDT116 - Fashionable Food

(Semester 2 only)

We often hear of fashion trends or trends in music but how about trends in food, the way we buy it, what we buy and how we cook it? Students will examine historical and current food trends and explore factors that influence their appeal and acceptability. Students will plan, prepare and present safe, appealing food that reflects contemporary food trends.

FDT117 - Outdoor Foodies

Fire up the Barbeque! Enjoy the outdoors while you grill, roast and bake. Develop your own rubs, sauces and barbeque creations. Learn how different cultures have mastered the art of cooking with flames. There is much more to the art of Barbeque than the humble sausage sandwich!

FDT118 – Advanced Food Technologies (Year 10 only)

(Semester 2 only)

Advanced Food Technology is for students who are in year 10 and have previously completed Food Technology courses throughout STRIVE. This course is perfect for those students who want to experiment with more advanced processing techniques and investigate the properties of food and how they react to external factors. You will design and develop food products to meet specific needs and do a deep dive in to the relationship between food consumption and society. If you are thinking about studying Food Technology in your senior years, this is the course for you!

Geography Elective Units

GEO111 – Travel

(Semester 1 only)

The world is out there to explore! In this elective, students explore travel through Asia. Students will investigate contemporary geographical issues taking place and discover strategies to address the issues. Countries that could be investigated include Indonesia (Bali), Thailand, Laos, Singapore and Vietnam.

GEO112 – Oceanography

(Semester 2 only)

In this unit, students will investigate the features and importance of the world's oceans. They will inquire into the contemporary issues relating to the use of oceans such as whaling, tourism and shipping.

GEO113 – Unique Global Environments and Places

(Semester 2 only)

Our world is constantly changing. It erupts to create unique environments. In this unit students will investigate why this happens and how this affects people. Students will learn about the Grand Canyon and the Mekong Valley.

GEO114 - Geography Mysteries

(Semester 1 only)

Students will utilise project-based learning to inquire into the interactions between people and environments and the citizenship aspects of a selected study. This elective provides an opportunity to investigate a geographical issue in-depth and to undertake fieldwork within the local area or at an accessible location.

GEO115 - Mining Gold from Australia's Resources

Investigate the nature and spatial distribution of primary production and its importance across a range of scales. Students will investigate a range of case examples including the fishing industry, mining industry, palm oil industry and the farming industry.

Graphics Technology

GRA113 – Computer Aided Manufacture

Students will gain an understanding of how to use the industry-standard 3D CAD software to design and produce items that will be manufactured using the equipment in the STEM Machine Room.

GRA114 – Computer Aided Drawing and Design

Students will gain an understanding to use CAD software to produce a series of high quality, accurate pictorial, and dimensioned orthographic drawings. CAD can be used to design all sorts of products, including items to be 3D printed and projects to be built in the workshop. This is an ideal stepping stone for students that wish to study Industrial Technology in Year 11 and 12 to be able to design and draw your projects.

GRA116 – Photo, Video and Animation

Capture, edit and produce professional videos. Use specialised video and photo editing software and embrace your creative side. Music videos, short films, vlogs, reviews, tutorials – you are only limited by your imagination!

History Elective Units

HIS111 - Ancient Mythology

We will examine the gods of Greece, Rome, and Egypt and explore some myths such as Pandora's Box and the Golden Fleece, Achilles and Hercules. Students will have the opportunity to explore a myth of their choosing in more detail.

HIS112 - Disasters that Changed the World

This unit is about studying some of the disastrous events that have shaped and changed our modern world. Some of the events we will explore are the Holocaust of World War II, the nuclear bombing of Hiroshima and Nagasaki, Chernobyl nuclear explosion and the September 11 terrorist attacks. By using a variety of historical sources, we reconstruct life during these turbulent times and try to give meaning to these events.

HIS113 - Sport and Recreation

(Semester 2 only)

This unit will explore the world's longstanding love of sport in all its forms. We will start with the birth of the Olympics and track its changes over time. We also look at Australia's sporting history and explore the origins of some of our most loved sports, such as cricket, rugby and soccer. Students will be able to select a sport of their choice to research in more detail.

HIS114 - All Roads Lead to Rome

(Semester 2 only)

Rome is arguably the greatest empire in all history. Students look at both primary and secondary sources to learn about its beginnings, its wars, its famous personalities and its way of life. You will focus on biographies, film as History and historical reconstructions to help understand the legacy that was Rome

Industrial Technology – Engineering

ITG112- The Need for Speed (Transportation)

This unit focuses on propulsion and aerodynamics. After learning the basics, students will then have the chance to put their new-found knowledge to the test by designing, building and testing bottle rockets and F1 cars.

ITG113 - Build A Bridge & Get Over It (Engineering Structures)

(Semester 2 only)

A bridge building challenge! This unit will focus on structures and see students learn about the engineering that goes into building a bridge. Students are then set the challenge to build a balsa wood bridge to span a pre-determined gap. Destructive testing will be used to see whose bridge can hold the most weight before giving way.

ITG114 - Futuristic Manufacturing (STEM Machine Technologies)

(Semester 1 only)

Students will gain an understanding of how to design, build and program machines and robotic systems using EV3 Lego. These machines and systems are the way of the future, but young engineers are still needed to come up with innovative and efficient design solutions.

Industrial Technology – Metal

ITM111 - Build a Barbeque!

Make your own portable barbeque and accessories. Develop skills in working with metal by cutting, shaping, drilling, and welding mild steel components. Great for camping or an amazing gift.

ITM112 - Jewellery Making

Twirl, twist and mould your own statement accessories. Tap into your creative side to create personalised jewellery products. Learn fun new skills and take home beautifully handcrafted pieces you can keep forever.

Industrial Technology – Timber

ITT112 -Woodworking Beginners

(Semester 1 only)

This is a practical focused unit, allowing students to develop their skills in the use of portable power tools and accurate measuring and marking. Students will produce a project that incorporates a variety of joinery techniques.

ITT114 – Dovetails, Dowels and Dados

Put your woodworking skills to the test by producing a practical project that incorporates a variety of joining techniques and builds on the skills taught in the beginner's course.

ITT115 – Tenons, Turning and Tapers

This unit will focus on the use of power tools and equipment to produce individualised products building on the skills taught in the beginner's course.

ITT116 – Woodworking Advanced (Year 10 Only)

(Semester 2 only)

Consolidate your wood working skills to design, plan and produce an advanced practical project.

Languages

LAN 111 - Fuji Food Festival

(Semester 1 only)

This elective aims to give a basic introduction to Chinese, an understanding of how languages work and an appreciation of the contribution made by Chinese culture to Australia. Students learn to ask and give information about themselves and their friends in the language, describe their home, family and school and learn to have simple conversations.

LAN 112 - Navigating Japan

(Semester 1 only)

This elective is about travel throughout Japan. Students will travel to significant locations discovering different modes of transport and experiencing local cultures and environments.

LAN 113 - Leisure and Recreation in Japan

(Semester 2 only)

In this elective, students will explore clubs and societies in Japanese schools, universities and beyond. Students will learn about relationships (friends, family, classmates) and negotiating what to do in their free time. Students will also learn about games and fads in Japan, both historical and current.

LAN 114 - Popyura karuchaa (Pop-culture)

(Semester 2 only)

You will learn about the impact that western society had on Japan in the production of anime and video game culture, and the impact that this nerd culture has had on the West in return. We will learn the language around drawing, clothing, shapes and colours.

Marine Studies

MAR111 - Dangerous Marine Creatures

This elective explores the characteristics and behaviour of a range of dangerous marine creatures. Students will investigate stone fish, sting rays, killer whales, sharks and other dangerous aquatic species.

MAR112 - Marine Water Sports

(Semester 1 only)

This elective introduces students to the theory and practice of safe snorkelling in enclosed and open waters. Students will investigate the world under the sea through snorkelling. This elective also provides students the opportunity to investigate the growing sport of recreational and commercial fishing.

MAR113 - Salt Water Aquariums and Aquaponics

(Semester 1 only)

This elective introduces students to the principles involved in the construction and maintenance of aquarium and aquaponics systems.

MAR114 - Shipwrecks and the Abyss

(Semester 2 only)

This elective provides students with opportunities to investigate the hardships faced by early mariners, their skill and the often-fatal results of miscalculations in sea travel.

MAR115 - Marine Mysteries

(Semester 2 only)

This elective enables students to select an array of enquiry modules to develop a deeper appreciation of aquatic environments and practices.

MAR116 – Fishing

This elective introduces the methods used to catch fish. Students investigate the relationship between different fishing methods and the behaviour and physiology of the fish being caught.

Mathematics Elective Units

MAT111 - Maths Tutorial

This unit is designed for students who require more support to master core skills in Mathematics. Students will be required to work independently with the assistance of the teacher. Students may receive further support with other units of Maths or with concepts not yet fully understood.

MAT112 – Year 9 Only - Maths Advanced Preparation 1

(Semester 2 Only)

This unit is designed to develop the knowledge and skills required for students to access and achieve in Mathematics Advanced in Year 11 and 12. Students will study Surds, Advanced Algebraic Skills and Deductive Geometry. This unit aims to strengthen core algebraic skills prior to their Year 11 studies in Mathematics Advanced. **Students attempting this course must have completed the Advanced stream core units.**

MAT113 – Year 10 Only - Maths Advanced Preparation 2

(Semester 2 Only)

This unit is designed to develop the knowledge and skills required for students to access and achieve in Mathematics Advanced in Year 11 and 12. Students will study Algebraic Techniques and Functions. This unit aims to strengthen core algebraic skills prior to their Year 11 studies in Mathematics Advanced. **Students attempting this course must have completed the Advanced stream core units.**

Motivated 2 Strive

MTS111 – Assessment Support 1

(Semester 1 only)

In this unit, students will continue to expand on their repertoire of WICOR strategies to achieve and maintain learning success in all of their school subjects. Throughout this unit, students will continue to engage with a range of support mechanism to help them manage assessment tasks from all other Strive subjects. With a focus on time management and organisational skills, students will work through establishing positive independent learning strategies. This unit can be undertaken in both Year 9 & Year 10.

MTS112 - Assessment Support 2

(Semester 2 only)

In this unit, students will continue to expand on their repertoire of WICOR strategies to achieve and maintain learning success in all of their school subjects. Throughout this unit, students will continue to engage with a range of support mechanism to help them manage assessment tasks from all other Strive subjects. With a focus on time management and organisational skills, students will work through establishing positive independent learning strategies. This unit can be undertaken in both Year 9 & Year 10.

Music

MUS114 - I'm With The Band

(Semester 1 only)

Being in a band is cool, so let's make one. This is where you can create a band, a name and start to perform music of your own choice. You will be able to write your own chart topping music and collaborate as part of a team. In this project, you will get to record in the studio, record a music video and become a professional rock star.

MUS116 - School Of Rock

(Semester 2 only)

Just like the movie, another opportunity to perform as part of a rockin' band. This unit will focus on how we can take your band into the community and give you that 'live experience'. You will be the star of shows like Extravaganza, take your band on a school's tour, learn how to busk and perform and where to take your band when you are famous.

Outdoor Education

ODE111 – The Great Outdoors

(Semester 1 only)

Students are introduced to outdoor education and its importance to their personal growth, skill development and overall wellbeing. They will experience challenge, learn more about their comfort-zone and participate in planned outdoor activities. Along with this mandatory core module and some first aid in outdoor environments, students will study bushcraft and navigation, applying their understanding of shelters, campsites, food collection and campsite cooking for future expeditions.

ODE112 - Outdoor Expedition

(Semester 1 only)

*** Students must have completed The Great Outdoors course in either year 9 or 10 before selecting Outdoor Expedition. This is due to the mandatory unit of Experiencing the Outdoors covered in Semester 1.*

Students investigate basic survival techniques and identify emergency procedures and apply personal skills to respond to emergency situations which may arise in outdoor environments. They also build connections to nature through experiential learning in contexts such as bushwalking, orienteering and mountain biking. The key focus of this course is the expedition preparation, where students develop, understand and apply logistical planning and preparations for a range of potential outdoor adventure activities in different environments, for example: ocean, mountain, snow or bush.

PASS

(Physical Activity and Sports Studies)

PAS111 - The Body In Motion

(Semester 1 only)

In this unit, students will learn how the bones, muscles, joints and energy systems all work together to produce efficient movement. Students will explore a range of sporting contexts with a diverse range of examples to understand how our body moves and how we can improve our own movement efficiency. We will also investigate the health and skill related components of fitness, relevant to student needs. All concepts will be explored in both theory and practical contexts.

PAS112 - Sporting Nation

(Semester 2 only)

In this unit students dive into the sporting world we live in here in Australia. We celebrate some of our sporting achievements of the past and contemporary athletes. Students will debate current issues in our sport such as the use of technology for officiating and gender related issues. In the practical setting, students participate in a range of Australian themed sports such as OzTag, AFL and traditional Indigenous Games. We also gain experience in games from around the globe such as European Handball, NFL and Gaelic Football.

PAS113 - Sport Leadership

(Semester 1 only)

Here we tap into your inner leader as students delve into event management and sports coaching. We get familiar with the roles behind the scenes when sporting clubs organise competitions of various formats. Be prepared to get hands on with planning our own class events and tournaments, with students both participating and officiating in them. We also investigate characteristics of quality coaching, through studying successful professional coaches, along with students coaching their peers through sessions they design. All concepts will be explored in both theory and practical contexts.

PAS114 - Improving Performance

(Semester 2 only)

If you're an aspiring athlete and want to know how to improve your performance then this course is for you. Students investigate the growing contribution of technology to participation and performance improvements. We participate in the analysis and development of skills necessary for successful performance in a variety of sporting contexts. A key feature of this unit is the peer analysis and evaluation of performance using a range of feedback techniques including video analysis. All concepts will be explored in both theory and practical contexts.

PAS115 - Active Lifestyles

This unit investigates the benefits of an active lifestyle and how we can increase our current physical activity levels. Students have opportunities to increase their participation in physical activity by proposing, planning and implementing strategies to increase participation and improve health and wellbeing both in and out of the classroom. We explore various barriers to activity and ways to overcome such barriers in our local community. Students also explore future opportunities in volunteer roles or career pathways in the sport and fitness industry. This is a course where you will get to significantly increase your physical activity levels in a variety of recreational contexts.

PAS116 – Football codes

(Semester 1 only)

In this course, students will focus on theory and practical activities related to the oval ball football codes of Touch Football, OzTag, Rugby League, Rugby Union and AFL. We will investigate energy systems and nutritional requirements with a specific focus on these football codes, along with their contribution to Australian national identity, and discuss current and historical issues in each code such as the media, political links, gender, equity, amateurism v professionalism, participation rates and sponsorship. In the practical aspect, students will develop movement skills and skill transfer across the codes. There is potential for local development officers to deliver training sessions aligned to group interests.

Science Elective Units

SCI111 – Science Magic

(Semester 1 only)

In this Physics elective, students will look at a range of physical applications in the real world and how these benefit society. They will learn to analyse motion in terms of scalar and vector quantities and perform calculations using Newton's Laws of Motion. Students will analyse electric fields, light, magnetism and forces.

SCI112 – Wizz, Bang, Pop

(Semester 2 only)

In this Chemistry elective, students will learn about how atoms are structured and how matter behaves. It will include the study of different types of chemical bonds and how these affect the physical properties of different substances. Additionally this unit will focus on how to perform practical tasks to develop skills required to cover a range of chemistry disciplines that develop a wide range of skills needed to do well in HSC Chemistry as well as beyond High School.

SCI113 - Bionics and the Body

(Semester 2 only)

In this Biology elective, students investigate different medical applications and technologies that can be used in the human body. They will learn about the functions of structures in the circulatory system and the skeletal system. Organ transplants will be discussed and how our immune system works.

SCI114 – Rocks, Rocks, Rocks

(Semester 1 only)

In this Earth and Environmental Science elective, students will investigate the layers of the Earth, tectonic movements and the impact of humans on the Earth. Sustainability and recycling will be a major focus as we look to improve the welfare of our planet.

SCI115 – From the Big Bang to Life

(Semester 1 only)

This elective takes on all the questions that originate with the dawn of time and gives students a framework to tell the story of humanity's place in the Universe. It helps students see the overall picture and make sense of the pieces. It looks at five major complexities that have shaped our world – the Big Bang, Stars, Elements, the Solar System and Life.

SCI116 – From Early Humans to the Future (cannot be completed if studied SCI115 in 2021)

(Semester 2 only)

This elective increases our understanding of humanity's place in the Universe by seeking out common themes and patterns that can help us better understand people, civilisations and the world we live in. It looks at four major complexities that have shaped our world – Collective Learning, Agriculture, Civilisations, and the Modern Revolution.

Visual Art

ART111 - Art Attack

(Semester 1 only)

In this unit students will be introduced to all things ART and refine their artmaking techniques through the creation of individual, imaginative and expressive artworks using different mediums such as paint, pencil, watercolour, printmaking and sculpture. With your very own artist kit, you will create anything your heart desires.

ART112 - Animation Art

(Semester 1 only)

In this unit students will study the principles of design in relation to graphic and digital journaling. Photography, stop motion, claymation, movie making, product packaging and design will form the basis of your very own professional design portfolio.

ART113 - Street Art

(Semester 1 only)

This unit is the word on the street! Street Art that is - where you can design your own tag, look at stencilling as a type of artmaking, create a graffiti style artwork and paint your own amazing skateboard.

ART114 - Culture Kings

(Semester 2 only)

Bring it! This unit allows you to create your own specialised brand and design your funky logo showing off your street cred. You will use various printing techniques to create and transfer your design to wearable items such as hats, bags, tee's and shoes. What is your culture going to look like?

ART115 - Choose Your Own ARTventure

(Semester 2 only)

This unit is all about YOU! You, as the artist, get to create the type of artmaking YOU love to make. Are you into anime', cartooning, designing 3D objects, sculpture or love creating collages? Whatever your heart desires, this type of artmaking is for you. Which ARTventure will you choose?

ART116 - Masters of Art

(Semester 2 only)

This unit of art is about creating art like a professional-looking at high end art, gallery influences and perfecting your artmaking practice through the use of different artmaking styles and learning from the masters. You will have your very own easel and canvas to create your very own masterpiece.

Work Education

WKS111 - Construction Employment Pathways

(Semester 1 only)

The course is designed to introduce students to the strategies and opportunities to become prepared for employment within the construction industry. Students will develop a portfolio and also an electronic portfolio to present to employers. They will engage in communication and teamwork activities, which will be transferable for future employments. Students will be exposed to guest presenters and industry tours. Students will also complete aptitude testing, interviews and engagement with apprenticeship network providers. Towards the end of the program, students will participate in work experience. All students will be encouraged to select a TAFE YES course to compliment this program. **As part of the program- students are expected to complete their white card and first aid course- costing approx \$150**

WKS112 - Business Administration/ Retail Employment Pathways

(Semester 1 only)

The course is designed to introduce students to the strategies and opportunities to become prepared for employment within business and retail. . Students will develop a portfolio and also an electronic portfolio to present to employers. They will engage in communication and teamwork activities, which will be transferable for future employments. Students will be exposed to guest presenters and industry tours. Students will also complete aptitude testing, interviews and engagement with apprenticeship network providers. Towards the end of the program, students will participate in work experience. All students will be encouraged to select a TAFE YES course to compliment this program. **As part of the program- students are expected to complete their first aid course and infection control course – approx \$100**

WKS113 - Health Employment Pathways

(Semester 1 only)

The course is designed to introduce students to the strategies and opportunities to become prepared for employment within the health industry. Students will develop a portfolio and also an electronic portfolio to present to employers. They will engage in communication and teamwork activities, which will be transferable for future employments. Students will be exposed to guest presenters and industry tours. Students will also complete aptitude testing, interviews and engagement with apprenticeship network providers. Towards the end of the program, students will participate in work experience. All students will be encouraged to select a TAFE YES course to compliment this program. **As part of the program- students are expected to complete their first aid course and infection control course – approx \$100**

WKS114 – Childcare Employment Pathways

(Semester 2 only)

The course is designed to introduce students to the strategies and opportunities to become prepared for employment within the childcare industry. Students will develop a portfolio and also an electronic portfolio to present to employers. They will engage in communication and teamwork activities, which will be transferable for future employments. Students will be exposed to guest presenters and industry tours. Students will also complete aptitude testing, interviews and engagement with apprenticeship network providers. Towards the end of the program, students will participate in work experience. All students will be encouraged to select a TAFE YES course to compliment this program. **As part of the program- students are expected to complete their first aid course and infection control course – approx \$100**

WKS115 - Defence Employment Pathways

(Semester 2 only)

The course is designed to introduce students to the strategies and opportunities to become prepared for employment within the Defence industry. Students will develop a portfolio and also an electronic portfolio to present to employers. They will engage in communication and teamwork activities, which will be transferable for future employments. Students will be exposed to guest presenters and industry tours. Students will also complete aptitude testing, interviews and engagement with apprenticeship network providers. Towards the end of the program, students will participate in work experience. All students will be encouraged to select a TAFE YES course to compliment this program. **As part of the program- students are expected to complete their first aid course and infection control course – approx \$100**

WKS116 – Hospitality Employment Pathways**(Semester 2 only)**

The course is designed to introduce students to the strategies and opportunities to become prepared for employment within the hospitality industry. Students will develop a portfolio and also an electronic portfolio to present to employers. They will engage in communication and teamwork activities, which will be transferable for future employments. Students will be exposed to guest presenters and industry tours. Students will also complete aptitude testing, interviews and engagement with apprenticeship network providers. Towards the end of the program, students will participate in work experience. All students will be encouraged to select a TAFE YES course to compliment this program. **As part of the program- students are expected to complete their first aid course and infection control course – approx \$100.**

WKS117 – 2.0 Employment Pathways

This course is for students who have already completed an Employment Pathways program. Students will engage in a variety of industry activities and guest presenters. Students will further develop their employability skills and connect with industries of interest while exploring various pathways available locally for them. Students will complete an independent investigation based on an industry of interest. All students will be encouraged to select a TAFE YES course, participate in University excursions and other arranged extracurricular activities.