

# Prairiewood High School



# Subject Selection Booklet

Year 9 & 10 - 2022

### **Contents**

Curriculum Requirements	page 4
Course Fees	page 6
Elective Courses	page 7
Agriculture Technology	page 8
Astronomy & Space Science	page 9
Child Studies	page 10
Civics & Citizenship	page 11
Commerce	page 12
Design & Technology	page 13
English Extension	page 14
Food Technology	page 15
Geography Elective	page 16
History's Mysteries (History Elective)	page 17
IT Electronics	page 18
IT Engineering	page 19
Industrial Technology – Metals	page 20
Industrial Technology – Timber	page 21
Information and Software Technology	page 22
Intensive English	page 23
International Studies	page 24
iSTEM Formula 1 – Aerodynamics	page 25
Japanese	page 26
French	page 27
Let's Travel	page 28
Music	page29
Philosophy	page 30
Photographic and Digital Media	page 31
Physical Activity & Sports Studies (PASS)	page 32
Textiles Technology	page 33
Visual Arts	page 34
Visual Design	page 35
Wide World of Culture	page 36
Vocational Education and Training (VET) Courses	page 37
Agrifood Operations (VET)	page 38
Hospitality (VET)	page 39
Accelerated Mathematics	page 40 - 41

#### **Stage 5 Curriculum Requirements**

When presenting for Stage 5 at Prairiewood High School, a student's course pattern will be structured to follow the NSW Education Standards Authority (NESA) requirements as follows. All students must study:

- 1. English
- 2. Mathematics
- 3. Science
- 4. History
- 5. Geography
- 6. Personal Development/Health and Physical Education
- 7. Sport

#### **Plus**

400 hours of **NESA endorsed** electives that can be studied in Year 9 and 10. This may be:

- Two 200-hour elective courses studied in Years 9 and 10
- One 100-hour elective course studied in Year 9 with a possibility to select the same or another course in Year 10

In this booklet, course information pages will display the following:



for courses which are NESA Endorsed.



for courses which are School Developed.

#### Satisfying Course Requirements for Stage 5

To qualify for the award of a grade in a subject, a candidate must have a satisfactory record of attendance and application. The Principal will be required to certify this to NESA.

Grades A - E will be awarded in all courses including English, Mathematics, Science, History, Geography and the elective subjects studied, based on school-based assessment of a student's achievement with reference to performance descriptors issued by NESA. *An* 'N' *determination will be given for courses which have not been satisfactorily completed.* 

#### The Record of School Achievement (RoSA)

From 2012, eligible students **who leave school** before receiving their Higher School Certificate (HSC) will receive the NSW Record of School Achievement (RoSA). The RoSA is a **cumulative credential** in that it allows students to accumulate their academic results until they leave school.

The RoSA records **completed Stage 5** and Preliminary Stage 6 courses and grades and participation in any uncompleted Preliminary Stage 6 courses. It is of specific use to students leaving school prior to the HSC. This is available to students via Students Online on the NESA site.

#### **Making Course Choices**

- Students entering Years 9 at Prairiewood High School have the opportunity to choose from a wide range of elective courses. Students will study two 200-hour elective courses through Years 9 and Year 10 plus one 100-hour elective course in Year 9 with a possibility to re-select in Year 10.
- Students entering Year 10 are encouraged to continue their study of the electives they chose in Year 9. This will support Stage 6 (Year 11 & 12) readiness.

<u>Note:</u> If you have been selected to study the Accelerated Mathematics program, it will replace one of your electives. In this case, the other two electives you choose MUST be NESA Endorsed.

#### **Making Course Choices Online**

When students make their selections online, it is important to note:

- a. The first two selections must be NESA Endorsed courses
- b. The third selection can be a School Developed course or a NESA Endorsed course

When choosing the reserve units students need to note:

- a. The first two reserve selections must be NESA Endorsed courses
- b. The third reserve selection can be a School Developed course or a NESA Endorsed course

#### Things to Consider

When choosing elective courses for Year 9 and 10, students should ask themselves five questions

- Which courses do I enjoy most?
- 2. Which courses do I do well in?
- 3. Which courses interest me?
- 4. Which courses may equip me for a *future career*?
- 5. Have I chosen too many courses with subject-specific costs?

When *Course Selection Forms* are submitted online, an assessment is made of the possibilities of forming classes to meet the pattern of choices made by students. This is done in the light of the staffing resources available to the school. If a course draws little response then some students may be asked to reconsider their choices. It may be that when the elective lines are finalised some students may find two courses that they wanted to study, clash in the timetable lines. Students are allocated to courses based on their preference order.

Please note that the listing of a course on the *Course Selection Form* cannot be taken to imply that a class or classes will always be formed.

#### **Extra Costs Associated With Some Courses**

Some courses require the purchase of special equipment and materials over and above what is provided through the general budget of the school. These **extra costs are met by the students** choosing these courses and are outlined in the course descriptions. This payment also allows students greater freedom in choosing a range of materials and project sizes in the course of their class work.

This levy is **NOT** a voluntary contribution. This cost is an elective levy to meet the cost of and **MUST** be paid to enable the successful running of the course for all students. It is not the intent of the school to limit the breadth of the curriculum for any student. Where the payment of an elective subject levy may be an issue, families should speak directly to the Principal to discuss other options.

#### **Changing Courses**

It is important that decisions regarding elective courses for Year 9 and Year 10 are made very carefully as they are generally binding from the start of the year. *Occasionally a change may be possible at the beginning of each year but generally, students are committed to courses until the course is completed.* 

#### **COURSE FEES**

COURSE NAME	FACULTY	NESA DEVELOPED / SCHOOL DEVELOPED BOARD ENDORSED COURSES (SDBEC)	FEES (PER YEAR)
Agriculture Technology	TAS	Y	\$30
AgriFood Operations (VET)	TAS	Y	\$25
Astronomy and Space Science	SCIENCE	N	\$25
Child Studies	TAS	Y	\$10
Civics and Citizenship	HSIE	N	-
Commerce	HSIE	Y	-
Design and Technology	TAS	Y	\$50
English Extension	ENGLISH	N	-
Food Technology	TAS	Y	\$45
Geography Elective	HSIE	Y	-
History's Mysteries (History Elective)	HSIE	Y	-
Hospitality (VET)	TAS	Y	\$45 + \$12 Apron
IT Electronics	TAS	Y	\$50
IT Engineering	TAS	Y	\$35
Industrial Technology – Metals	TAS	Y	\$35
Industrial Technology – Timber	TAS	Y	\$50
Information and Software Technology	TAS	Y	-
Intensive English	ENGLISH	N	-
International Studies	HSIE	N	-
iSTEM Formula 1 – Aerodynamics	TAS	Y	\$50
Japanese	CAPA	Y	-
French	CAPA	Y	-
Let's Travel	CAPA	N	-
Music	CAPA	Y	\$25
Philosophy	HSIE	N	-
Photographic and Digital Media	CAPA	Y	\$60
Physical Activity and Sport Studies	PDHPE	Y	\$50
Textiles Technology	TAS	Y	\$50
Visual Arts	CAPA	Y	\$60
Visual Design	CAPA	Y	\$40
Wide World of Culture	HSIE	N	-
Accelerated Mathematics*	MATHS	Y/N	-

#### Fees

A fee is charged for courses to cover the cost of tools, equipment, some materials and consumables used by students to meet course outcomes. Students or parents who are not prepared to pay such fees should consider an alternate course which charges no fees.

#### For Industrial Technology Courses, Agriculture, Food Technology and Design:

In order to meet safety requirements, all students who select any of these courses will be required to wear appropriate footwear at all times in school workshops. The minimum requirement is <u>enclosed shoes with a strong and rigid leather upper.</u> Any form of **open footwear** (sandals, thongs etc.) or **sports shoes** (joggers, sandshoes, gym shoes, sneakers etc.) with a soft or flexible leather or synthetic upper **are not permitted** to be worn in school workshops under any circumstances. Students or parents who feel they cannot meet such a safety requirement should consider an alternative course which has less stringent safety requirements. A hat is also required for students doing Agriculture (especially during the summer months).

\*Students who have been selected in the Accelerated Mathematics course must choose <u>two</u> NESA Endorsed electives.

Above charges are correct as at the time of printing.







The Year 9 and 10 Agriculture course is for students who have an interest and/or want to learn more about animals, plants and the technology used in modern agriculture. The course is designed to allow students to

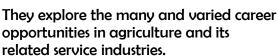




develop skills from practical learning experiences, with a focus on new and emerging technologies used in the industry.



Students will experience aspects of an agricultural lifestyle through direct contact with plants and animals and a variety of outside activities.



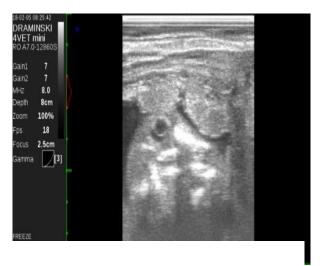


#### Areas of studies include



- Nutrition
- Reproduction
- Animal behaviour
- Animal husbandry
- Animal welfare
- Plant production
- Technology used in the industry

### This elective can be studied as a 100 hour course in Year 9 and can be continued in Year 10 to complete a 200 hour course.



- It is great for students who like to work outdoors and with their hands
- Skills learnt can be used in all areas of life
- Access some new and exciting technologies used in the industry



 At the completion of Year 10, students can continue with their study of Agriculture as part of the HSC course called VET Primary Industries.

For further information speak to your Agriculture Teacher

#### **Astronomy and Space Science**



#### **Course Outline**

As the only public school in Australia with a publicly funded observatory, Prairiewood HS is in a unique position to offer a practical course in Astronomy. This elective is designed to introduce the major ideas of Astronomy along with reinforcing the scientific method and improving basic science skills already taught in the classroom. It will give students the opportunity to explore the universe both in and out of the classroom and give students a taste of what real astronomers actually do. If you want to get out of the classroom a bit and do more than just look through a telescope and stare at the night sky then this course is for you.

An outline of the units of work covered in the course is shown below:

#### **Sky Watching**

The history of Astronomy Stars and Planets in the Sky Phases and Eclipses Seasons, clocks and calendars

#### Space Science

Space Exploration
Past, present and future

#### **Measuring the Universe**

Distance, scales and units Measurement in Astronomy

#### Stars and Stellar Evolution

Why do stars shine?
Different kinds of stars
Stellar life cycles

#### **The Solar System**

Origin and scale
The Sun
The Planets
Moons, Comets, Meteoroids and Asteroids
Gravity, Orbits and Planetary Motion
Tools of the Astronomer
The Electromagnetic Spectrum
Telescopes
Spectroscopy Photography

#### **Galaxies and Exotic Objects**

Galaxies and Nebulae
Gamma Ray Bursts
Neutron stars
Black holes

#### The Professional Astronomer

What do they do? What information they collect and how Working with real data

#### Cosmology

The History, Composition and Fate of the Universe

#### Life in the Universe

Where did life come from? Where is it? Why is Earth so special? Searches for Life

### Child Studies



This elective can be studied as a 100-hour course in Year 9 and can be continued in Year 10 to complete a 200-hour course.

A popular course in Technology Education is Child Studies which can be continued into the year 11 and 12 course 'Exploring Early Childhood'.

In Child Studies, students learn to provide babies and young children with safety, nutrition and early education.

Students learn about pregnancy and birth, early care of babies, baby play, appropriate toys for children at different stages and healthy eating. Students will plan and prepare a birthday party for a small child.

All students will be challenged in both theory and practical components of the course through the differentiated curriculum.

This course would be good preparation for anyone considering:

- Teaching
- Nursing
- Nutrition
- Midwifery
- Medicine and paediatrics









# Civics and Citizenship

#### What will you learn about?

- Australia's national values of democracy, equity, and justice
- The skills needed to be a leader and what leadership looks like in 2021
- Australia as a multicultural nation.
- The ways you can contribute to society through volunteering
- The importance of being a responsible citizen









You should choose Civics & Citizenship if you are interested in...

- Learning more about Australia
- Developing your leadership skills
- Understanding other cultures
- Community involvement & excursions
- Democracy and our right to decide how Australia is led



# Commerce

#### What will you learn about?

- Promoting and selling goods and services
- About the law and your place in it
- How to get a job in the evolving job market
- How to get your money to work for you
- Understanding consumer rights, protection and scams
- Australian and global politics
- Travel tips and advice



#### Why choose Commerce and who should choose it?

- Gives you a great insight into decisions you will make as an adult consumer and entrepreneur
- Prepare you for life after school, future job prospects and university course choices
- It will prepare you for Business Studies, Economics and Legal Studies
- If you are interested in Australian issues and how Australia fits into the global picture
- Interest in contemporary business and legal issues affecting society
- Enjoy making difficult decisions as a consumer, business and policy maker
- Learn different skills to communicate your knowledge to real-world audiences





# Design and Technology



# 2022

Learn to be part of a high-performing team.

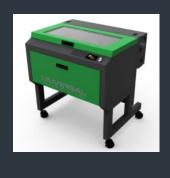


The course prepares you to plan and execute innovative projects requiring a high degree of collaborative skills.

#### LEARN DESIGN SECRETS

Great designs don't just happen

– they come as the result of an
design process. You will learn
how to sketch, mathematically
model and manufacture complex
projects. Along the way you will
use Autodesk Fusion 360
product development software,
learn to laser cutter and 3D
Printer.





project – based learning P.1

individual and team-based projects P.2

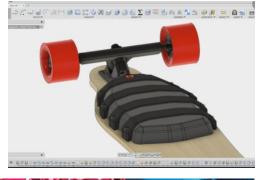
Non-Profit Solutions P.3

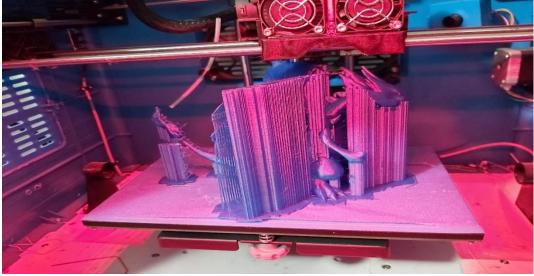
Trends & New Software P.4

#### Design innovative solutions to problems

Problems surround us, begging for solutions. This course introduces you the techniques and processes used by professional designers to solve their clients's problems in innovative and effective ways. You will learn visualisation, sketching, mapping and plannig techniques to set up and manage a successful project. You will also learn a variety of manufacturing and presentation skills to bring your ideas to life! You will have the opportunity to safely use our 3D Printers, lasercutters, electronics, microprocessors and have access to our wood and metal workshops to make your project.

You will be introduced to Digital technologies,
Information and communication technologies,
mechatronics and Materials technologies as you
design individual and team solutions to a range of
challenging tasks that continue to build your
confidence and skills.





#### **ENGLISH EXTENSION**



The way we use and understand language has the power to shape our place in the world.

#### This is a practical subject for English. Students who take this course will:

- Go on Excursions
- Work with a teacher as a mentor through an interest project
- Become stronger students in English
- Develop skills required for Major Works

#### What is Extension English?



This course provides an opportunity for students who enjoy and are accomplished in English to extend their ability to understand and engage with texts in critical and creative ways. Through a study of a broad-range of literature, from a range of contexts, students become equipped with the ability to craft their personal voice that extends their knowledge, understanding and skills developed throughout the English course.

#### Why should you do Extension English?

Students will develop and refine their ability to produce comprehensive extended responses and become engaged with the creative process of exploring human expression through texts. This English Extension course develops independent and collaborative skills and critical thinking that is essential for the further study of English.

Designed as a lead-in to the Advanced and Extension English courses in Year 11 and 12, this course will equip students with a strong foundation to succeed and understand the rigors of these HSC courses. Additionally, this course will appeal to students who are independent learners with an interest in English and literature and a desire to strengthen their writing and expression capabilities.

#### **Project-based content:**

Through the study of English Extension students are provided with an opportunity to pursue an area of interest through means of their own self-expression. Students will learn about how to undertake thorough investigations and experiment with form and style for insightful and powerful results. Throughout the course students will focus on developing a project in collaboration with the teacher and explore points of interest in a new and meaningful way. Subjects and topics can range from investigating individuals and society, the changing roles of gender in literature, cultural frameworks in texts and tracking political and social movements through literature.

Students who enjoy expression through media and enjoy innovative ideas are encouraged to join the subject to design and express wider views relevant to the study of English.

### Food Technology

# N

#### Would you like to learn about:

- Creating delicious and attractive dishes
- Healthy eating and nutrition
- Catering for special events
- Creating and cooking your own recipes
- The development of new food products?

....then Food Technology is for you!

The major focus of Food Technology is students exploring food-related issues through a range of practical food preparation lessons, allowing them to develop food-specific skills.



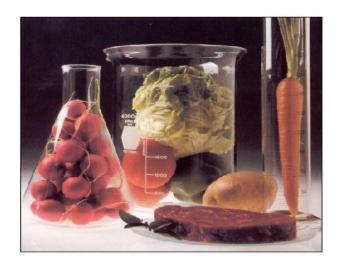
During the course, students will

- Collect, analyse and organise information
- Communicate ideas and information
- Plan and organise activities
- Work with others and teams
- Solve problems
- Use mathematical ideas and techniques
- Use technology

Students will evaluate the relationships between food, technology, nutritional status and the quality of life, while addressing hygiene and safe work practices in the kitchen. They will explore the richness and variety that food adds to life and how it contributes to both employment opportunities and life experiences.







### **GEOGRAPHY ELECTIVE**



Question: How is it different to Geography? Answer: **Geography** looks at engagement with the world. Students develop an understanding of the interactions between people, places and environments.

**Geography Elective** provides opportunities to develop a broader understanding of Geography. It looks at the options (see below) in more detail.

If you choose Geography Elective, an investigative study will be undertaken for each option.

<u>Option</u>	What is it?			
Physical Geography		Climate, weather, plate tectonics, etc. and how these work together to impact everything in the world. Why are some countries richer than others? Did you ever consider it might be impacted by their land?		
Oceanography	The world's oceans, who owns them, and their value. Fish populations are declining because of overfishing. Have you considered who owns the fish in the ocean?			
Primary Production		on our community a	pacts mining, agriculture etc. have nd the land. Can you name another nary production in the world?	
Global Citizenship	How global citizenship impacts the world, e.g. through shared responsibilities. If the U.S. produces the most pollution, why is there an incentive for developing countries to reduce their pollution impact?			
Australia's Neighbours		Characteristics of our closest neighbours – e.g. did you know Indonesia (directly above Australia) has the largest Islamic population in the world?		
Political Geography	World politics, political tension and conflict, and conflict resolution. If we can't work together and agree on certain things, how will this impact the future of the world?		work together and vill this impact the	
Interactions and Patterns along a Transcontinental Transect		Investigating the differences from one side of a nation to the other – e.g. why is Eastern China so much richer than Western China?		

# HISTORY'S MYSTERIES



In **History's Mysteries**, you will learn about **past events**, **people** and **societies** that still interest and influence our world today.

You will develop a variety of skills and the ability to make judgements about important topics and issues.

History's Mysteries is <u>ideal preparation for any student interested in studying Ancient and/or Modern History in Year 11 and 12</u>.

This course is designed to build necessary skills and knowledge, important for success in the senior years.

Studying **History's Mysteries** involves exploring a range of sources including film, podcasts, websites, photographs documentaries, newspapers, as well as providing the opportunity to create movies, displays and web-based designs.

In Year 9 and 10, you will follow a program based on <u>student and teacher</u> choice.

Previous topics have included:

- Archaeology and human remains
- The sinking of the Titanic
- Hollywood/Movie History
- The History of Medicine
- Assassinations, such as JFK, Gandhi and Martin Luther King
- Ancient Societies, such as Egypt, Greece, Rome and China
- Civil Rights in the USA, Apartheid in South Africa and slavery
- Historical Mysteries: Forgeries and Hoaxes, Stonehenge, Jackthe Ripper, King Arthur and the Knights of Camelot
- Genocide: The Holocaust in Germany, Pol Pot and the Khmer Rouge in Cambodia
- Crime in the 20<sup>th</sup> Century
- Inventions
- Science and Technology
- Heroes and Villains
- Myths and Legends





# Imagine Create TElectronics



### 2022

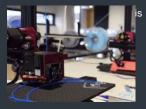
Learn about microprocessor s and how to program them.



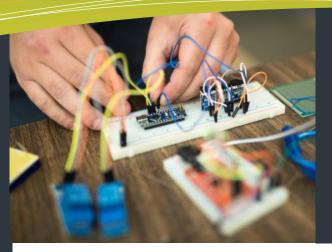
The course helps you to understand how safely build and control small robots.

#### LEARN DESIGN SECRETSt

laor minim veniam, quis exerci



Intersting projects don't just happen - they come as the result of an engineering design process. Your teacher will guide you through the secrets of the engineering design process, and you will learn the necessary practical skills to build working electronic circuits in order to control mechanisms.

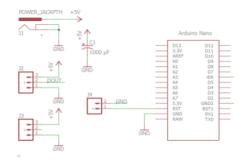


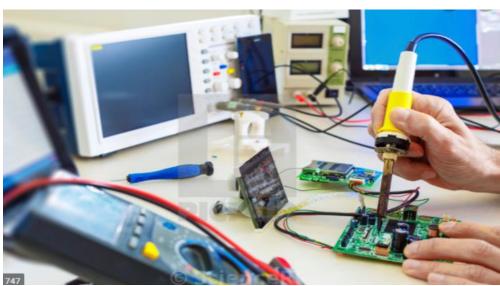
- P.1 project based learning
- P.2 individual and team projects
- P.3 Non-Profit Solutions

#### Learn electronics design and repairing skills

Learn about what electronics components do and how to use them to create innovative and functional projects. You will begin using premade kits and work your way up to designing your own circuits! Along the way you will learn the secrets of bluetooth, Infra-red, radio and Wifi transmission technologies. You will also learn about simple logic gates and apply diagnostic, fault-finding measuring and testing techniques. And there's more... electric motors, CNC equipment, Oscilloscopes and 3D printing are all part of this course!

Students will be introduced to Electronics through a core module that takes them through the basics of prototyping electronic circuits and comeponents, testing and tuning your project and correcting fauls. Specialised module 2 goes deeper into circuit design extenging to Integrated circuits and Printd Circuit Board layout, sensors and much more.





# Imagine IT Engineering



2022

Learn about materials and how to use



The course helps you to understand how the materials you work with are made and used by testing their properties.

#### LEARN DESIGN SECRETSt



Great designs don't just happen - they come as the result of an engineering design process. Your teacher will guide you through the secrets of the engineering design process, and you will learn the necessary practica I skills to build strong strong structures and efficient



project - based learning P.1

Individual and team projects P.2

Non-Profit Solutions P.3

Trends & New Software P.4

#### Learn to solve real-world problems

Take on the challenge to of understanding structres, mechanisms, alternative energy systems and more by learning how to use powerful machinery and design skils as you complete and test your projects.

The Industrial Technology Engineering course is completely project-based. All assessemnt tasks come in the form of group and individual project work, helping to prepare you for the way you will work in the real world,

You will study two units of work in Year 9 (Structures and Meachanisms) and build on this knowledge by designing and constructing an electric bicycle. The following year we move into alternative energies and control systems.





# Industrial Technology - Metals



2022

# Learn about metals and how to use them



The course helps you to understand how metals are made and why they have their unique properties.

#### LEARN DESIGN SECRETS



Great designs don't just happen – they come as the result of an engineering design process. Your teacher will guide you through the secrets of the engineering design process, and you will learn the necessary practica I skills to build unique and useful solutions to problems using that most wonderful of materials – METAL!



project - based learning P.1

Individual and team projects P.2

Non-Profit Solutions P.3

Trends & New Software P.4

#### Learn to design and create using metals

IT Metals course is an exciting trip into the world of art and fabrication metalwork. You will learn to use a wide range of the equipment and machinery in our workshops: Lathes, Oxy acetylene and MIG welders, spot welders, folding machines and ring rollers, grinding tools and the many hand tools available at our school. The Industrial Technology Metals course is completely project-based. All assessment tasks come in the form of group and individual project work, helping to prepare vou for the way vou will work in the real world.

You will study two units of work in Year 9 (Art metal and Metal machining and Fabrication) and build on this knowledge by designing and constructing several projects including a metal rose, a set of darts and your own personalised tool box.





### INDUSTRIAL TECHNOLOGY TIMBER



Timber and timber products are used to make furniture and fittings in all homes and other buildings.

In this course, you will have the opportunity to develop skills and knowledge in areas such as:



- Drawing interpretation and calculations
- Cabinet work
- Timber finishing
- Woodturning
- Spray painting
- Basic computing skills





Students will construct a range of practical projects using hand tools, portable power tools and machine tools (disc sander, drill, morticing machine etc.) made from a variety of timbers and timber products. The skills and knowledge you develop in this course may be helpful in your future, at home or work. All completed projects will be taken home.

Career pathways include carpentry, joinery, furniture and cabinet making, building, boatbuilding, architecture, CNC machining, a range of small business opportunities and many more.

# INFORMATION AND SOFTWARE TECHNOLOGY

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So, you think you're good at computing? You can Twitter, Blog, Rip, Download, Hack or Torrent. But can you create your very own computer game, can you control a robot, can you create your own website, video or multimedia animation?

Don't just change with technology - Change Technology!!!

Don't just be part of the Digital Revolution – lead it and attain

the highly developed skills required to work and live in a digital world.

You'll be the envy of all your Virtual Friends (Oh yeah and the real ones too).

We now work and live in environments requiring highly developed levels of computing and technological literacy. Current technologies are becoming obsolete at a rapid rate and new generations will need to be flexible to accommodate changes as they emerge. It is important that students learn about, choose and use appropriate information and software technology and develop an informed awareness of its capacities, scope, limitations and implications. Technological competence in the rapidly evolving area of information and software technology will require lifelong learning.



The study of Information and Software Technology assists students to develop the knowledge, understanding and skills to solve problems in real life problems. Through practical project work, students engage in processes of analysing, designing, producing, testing, documenting, implementing and evaluating information and software technology-based solutions. These projects may include:

- Robotics and Automated Systems
- Artificial Intelligence Simulation and Modelling
- Authoring and Multimedia
- Digital Media
- Internet and Website Development
- Software Development and Programming
- Database Design



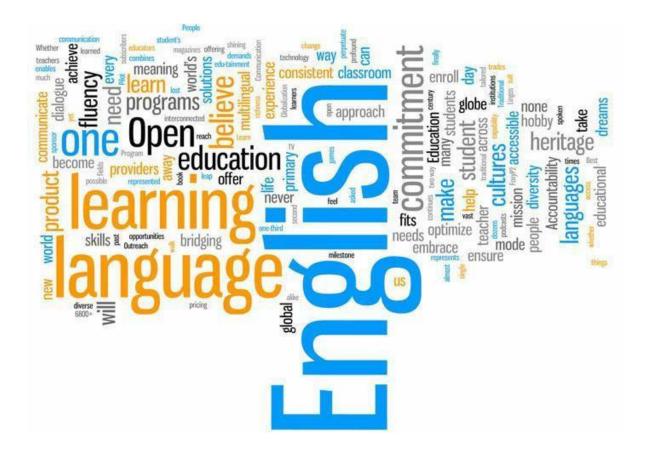
Career pathways include: Information technology, computer engineering, systems development, defence industries, innovation and emerging technology industries, research, CSIRO and many, many more.

### INTENSIVE ENGLISH

This course has been specifically designed for students who need to develop their English language skills in reading and writing. This is a program of additional tuition to boost English and will be tailored to the needs of each student, with a focus on language acquisition skills, multi-lit, reading, comprehension and preparing students for the language and academic demands of Year 11 and 12 and/or the workplace.

In the Intensive English course, you will:

- learn and improve your English in a friendly, safe environment
- learn in a small class taught by an English and ESL trained teacher
- learn subject-specific English for HSC courses and assessments
- learn study skills to help you as you prepare for the Preliminary and HSC courses



### International Studies



#### What will you learn about?

- Gain an understanding of how people all over the world live
- Experience other cultures
- Learn about different belief systems
- Gain an insight into other parts of the world
- International cuisine!



#### Why choose International Studies?

- It is relevant to you, your world and local community
- Could lead into learning an Asian language and provide a foundation for further studies of foreign affairs
- Provides a head start for anyone thinking of a career which may involve issues beyond our own borders



#### Who should choose it?

- Students interested in global issues
- Students of all cultural backgrounds
- Students looking to understand the world and their place in it
- Students looking to gain an advantage for their future career



# Imagine Create iStem: Formula



2022

Learn to be part of a highperforming team.



The course prepares you to plan and execute complex projects requiring a high degree of collaborative skills.

#### LEARN DESIGN SECRETS



Great designs don't just happen - they come as the result of an engineering design process. You will learn how to sketch, mathematically model and manufacture complex F1 in Schools cars. Along the way you will use Autodesk Fusion 360 product development software, learn to program a CNC router and test your model using Computatinal fluid dynamics professional software.



project – based learning P.1

team-based projects P.2

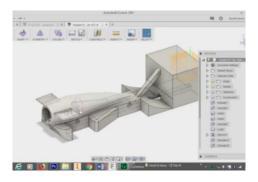
Non-Profit Solutions P.3

Trends & New Software P.4

#### Warning: This IS rocket science!

Put your knowledge of communication, science and mathematics into hyperdrive by building technical, aeronautical mechanical engineering knowledge. Take on the challenge of designing, marketing, testing and racing a CO2 powered miniature formula 1 Car. The i-stem: Formula 1 course will put you into the driving seat of CNC milling, CAD and CAM industry-based product development skills, computational Fluid dynamics analysis and more in a collaborative environment as your team prepares for the 2021 F1 in Schools Competition!

Students will be introduced to STEM fundamentals to firm in an understanding of the application of science and maths to F1 in Schools Cars. You will then go on to learn about aerodynamics and it's application to Formula 1 Car design as your team designs and races





Have you ever wondered why sushi is called SUSHI, what NARUTO actually means and why people say KAWAII to everything?

Are you mesmerised by the beautiful Japanese landscape and curious about the starkly contrasting but also harmonious traditional and modern Japanese cultures?

If you answered 'Yes' to any of the above, then you should study Japanese in Stage 5!

This elective course will equip you with the essential skills in basic communication in Japanese, the opportunity to experience fun and interesting cultural knowledge, and everything in between!

Topics covered in this two-year course include, but are not limited to:

#### Meeting new friends

Greetings, name, age, grade, birthday, phone number, animal zodiac, address, nationality, family and pets;

#### \* Eating and Drinking

Japanese and Western foods, likes/dislikes, eating habits, mealtime etiquette, ordering at a restaurant;

#### \* Let's go shopping!

Clothing items, Japanese and Western fashion,

Japanese currency, describing what people wear, colours;

#### \* Hobbies and Sports

Pastimes, interests, Japanese verbs, likes/dislikes, when one engages in their hobbies, describing hobbies;

#### 🌟 My School

Classroom objects, classroom instructions, school facilities, school subjects, likes/dislikes, describing one's timetable.





#### WHY do it?



- learn to speak with others
- taste different foods
- improve your social skills
- increase job opportunities here and overseas (hospitality, tourism, journalism, business, sport)
- know more than your friends
- it's fun (lots of games, sports, songs and videos)
- excursions here and overseas (restaurants, movies, New Caledonia and Europe)

# LANGUAGE (French)



#### WHAT do you do?

- speak, listen, read and write
- use technology
- cook and eat interesting dishes
- locate different countries and improve your geography
- meet people from overseas and keep in contact
- learn to organise an overseas trip
- sing and dance, put your drama skills on show
- create interesting artworks
- watch the latest movies from overseas





# Let's Travel



Do you ever dream of going on a holiday to New York? Or Rome?

Or even Uluru? Or.....?

Well this subject is for you!

This subject is for students that want to learn how to plan holidays domestically and internationally.

It will teach you how to organise and prepare yourself for a trip. In this course you will learn about:

- Getting a passport
- Accommodation
- Visas
- Tourist attractions
- Airport procedures
- Customs
- Currency
- Health Issues
- Learn survival language



Together we will learn how to ask 'how much is this bag?' in French, how to buy tickets to the Premier League in the UK and all of the other essentials for travel. This course is aimed primarily at those with a general interest in Languages and Travel, but who do not want to study a language intensively.



# Music



A course for students with an interest and passion for all aspects of Music. It is designed to cater for students of all musical abilities, from those with basic skills on their instrument/voice to those with many years of experience.

"...music education grows, hones and permanently improves neural networks like no other activity. Children who undertake formal, ongoing musical education have significantly higher levels of cognitive capacity, specifically in their language acquisition and numerical problem- solving skills.

They also continue in education for longer, reverse the cognitive issues related to disadvantage and earn and contribute more on average across their lifetime."

(from 'Music Education - Key to Raising Literacy and Numeracy Standards' by Dr Anita Collins, The Age, 14th June 2015)



#### You will:

- Gain confidence and experience in performing (solo and group performances)
- Listen to and gain an understanding of a wide range of different sorts of music, from Rock/Pop to Jazz, Classical, music for Radio, Film, Television and Video games as well as music from around the world
- Learn how to read music notation with confidence and use this to compose music for you and your classmates
- Explore modern musical technologies, such as MIDI, synthesizers, computer-based electronic compositions, as well as film and produce your own music videos
- Use ICT to compose, notate and perform different styles of music.



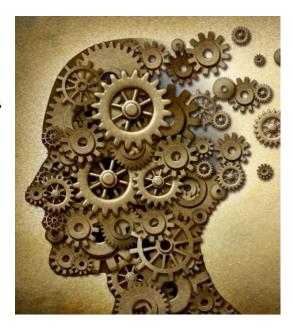
You will also be given a wide range of opportunities to perform both inside and outside of school!

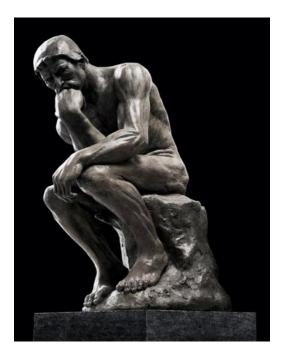
# Philosophy

# S

#### What will you learn about?

- Logic and critical reasoning
- How to pose and answer intellectual questions
- Harnessing the skills of higher order thinking
- How to inspect and scrutinise deeply held beliefs and ideas
- · Becoming an effective problem solver



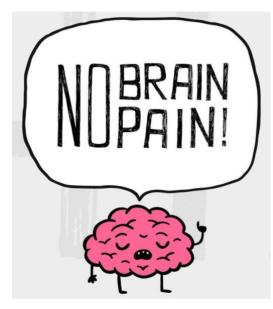


#### Why choose Philosophy?

- It's about you, your world and your place in it
- As the oldest academic discipline taught at universities, it helps us understand why the world is the way it is
- You can gain a new way of looking at the world
- The problem-solving skills you can gain are invaluable!

#### Who should choose it?

- · Students of all cultural backgrounds
- If you're interested in global issues
- If you're looking to understand the world better - and your place in it
- If you're wanting to gain an advantage for your future career



# PHOTOGRAPHIC AND DIGITAL MEDIA





Photographic and Digital Media (PDM) provides opportunities for students to enjoy making and studying a range of photographic and digital media works.

Photography is an elective course for students wishing to explore traditional darkroom and digital photography / video methods in-depth. Students will develop practical skills, and an understanding of the critical / historical aspects of Photography.

Some of the topics covered in this course are:



- Darkroom Photography
- Photograms
- Photojournalism
- Digital Photography
- Portraiture
- Urban Landscape
- Photoshop
- Still Life
- Animation

An excursion is planned during the year for students to photograph and film the city's urban landscape. Here students will have the opportunity to hone their skills and develop a body of work in preparation for the annual art exhibition in Term 4. There are also opportunities for students to participate in studio practice and explore film as a medium.

The weighting for the course is 70% practical and 30% theory.





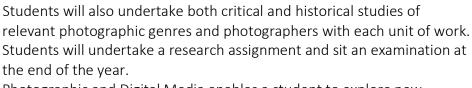






Photography Assessment

Students are expected to produce photographic works and detail the development of these works in their Photographic Process Diary (PPD). A Photographic Process Diary (PPD) is also used to record ideas and document procedures.



Photographic and Digital Media enables a student to explore new technologies, cultural identity and the evolution of photography and digital media into the 21st century.

Equipment needed: Photographic Process Diary (PPD), Lead Pencil, Pens, Black Fine Line Marker, USB.



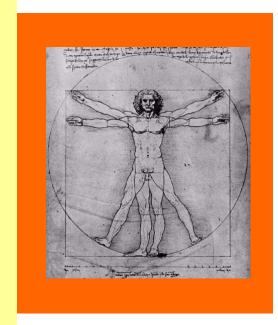


#### PHYSICAL ACTIVITY and SPORTS STUDIES

P.A.S.S. is a very popular subject offered by the PDHPE faculty. If you have an interest in:

- THE HUMAN BODY and how it moves during sport and physical activity
- COACHING ATHLETES & TEAMS
- HOW TO APPLY FIRST AID
- HEALTH, FITNESS & NUTRITION of ATHLETES

SPORT'S ROLE IN SHAPING



THEN THIS COURSE IS FOR YOU!

PASS – Physical Activity and Sports Studies is available for both Year 9 & 10 students. Students currently studying PASS in year 9 can remain in PASS and learn exciting new units for year 10.

Many Prairiewood High students who studied PASS have pursued careers in the following fields:









Medical

**Exercise Physiologist** 

Paramedic

Physio / Chiropractor









First Aid Trainer

Sports Psychologist

Dietician

Occupational Therapist

### **Textiles Technology**



This course is for lovers of design and students can choose whether to study fashion design or interior design. Students can change their mind at any time during the course.

Students study the design principles and elements and create portfolios of design ideas. We will be researching the work of Australian interior designers or fashion designers.

Projects include creating collections of work that may include fashion outfits (if they choose fashion) or interior design boards and furnishing accessories (if selecting interior design).



There will be an incursion from a design specialist from an Australian design college and an excursion to a design show.

This would be a choice for anyone considering a design based major work for HSC or anyone wanting to work in a design field such as architecture, interior designer, creative or graphic design or fashion designer.





# Interior Design or Fashion Design

# VISUAL ARTS





Do you enjoy making art? Would you like to learn new art skills? Then this is the course for you!

Visual Arts may be studied in Year 9 or Year 10, or both years. The Visual Arts Year 9-10 course builds your artistic skills through intensive exploration in a variety of expressive forms that include:

- Drawing
- Sculpture
- Printmaking
- Painting
- Ceramics (Clay)
- Mixed Media
- Photography
- Photoshop
- Graffiti Art





The weighting for the course is 60% practical (artmaking) and 40% theory (critical and historical studies). There is a written examination in Term 4. The theoretical component of the course involves exciting studies in art history to give us insight into the role and function of art and artists throughout time. Significant critical studies are also undertaken, to develop the ability to respond to and appreciate works of art and to understand the context of the world in which they were made.

Some of the artmaking topics covered include:

- Fantasy / Surrealism
- Suburbia
- Architecture

- Still Life (Vanitas)
- Identity
- Art and Text

- Futuristic Themes
- Environmental Art
- Postmodernist Concepts

Excursions are planned during the year to art exhibitions and sites related to the unit of work being studied. This may include visits to the Art Gallery of NSW and The Museum of Contemporary Art to see Art Express, The Archibald Prize, Biennale of Sydney, Sculpture by the Sea. An annual Creative and Performing Arts Expo held in mid Term 4 showcases the work of our talented Visual Arts and Photography students.



#### Why choose art?

Visual Arts develops a student's creativity, intellectual and practical independence, as well as developing critical judgement and understanding to interpret the world around them.

The powers of visual expression and communication plays an important role in the social, cultural and spiritual lives of students. Visual Arts provides a valuable background for all students contemplating any career where acute observation, critical analysis, brain-hand-eye co-ordination/dexterity and creative problem-solving are necessary.

The skills and knowledge taught and the values formed in Visual Arts will benefit those seeking a future in art and design-related industries and will also prepare students for vocational fields such as journalism, sociology, law, medicine and dentistry, by providing opportunities to develop their social and cultural awareness, observation skills and empathy and mental/manual dexterity.



**Equipment needed:** Visual Arts Process Diary (VAPD), USB, graded lead pencils, coloured pencils, black fine line marker/s, eraser and ruler.

# VISUAL DESIGN



#### Do you enjoy designing? This could be the course for you.

Visual Design plays a significant role in many applied creative fields. This course provides students with opportunities to explore and understand the nature of good design practice, conceptual knowledge, technology, the role of the artist as designer and the value and meaning of visual design artworks in society and the role of the audience as consumer in these contexts.





This course allows students to act in the role of head designer and respond to design briefs. Design brief topics can include:

<ul> <li>Jewellery Design</li> </ul>	<ul> <li>Magazine Cover</li> </ul>	<ul> <li>Invitation Design</li> </ul>
<ul> <li>Cook Book Design</li> </ul>	<ul> <li>Skateboard Design</li> </ul>	<ul><li>Interior Design</li></ul>
Game Character Design	Movie Poster	<ul> <li>Company Logo</li> </ul>

Assessment is based on 60% practical component e.g. design brief models/products and process work and 40% on research [designers and movements].

#### **TYPOGRAPHY**

Students will learn about the art of both digital and handwritten typography and its effectiveness to communicate ideas and messages.

#### **GRAPHIC DESIGN**

Students will learn about and engage in graphic design mediums such as packaging design, illustration, publishing design, marketing design and signage design.

#### OBJECT DESIGN

Students will learn about and experiment with traditional and non-traditional materials to design and produce wearable, usable and practical objects.





# Wide World of Culture

For students who want to learn more about the world and different people around them!



Which Stage 6 Subjects will this be relevant for?

- Society & Culture
- Geography
- Legal Studies

What will I learn about?

- · What culture is
- · How cultures can be different
- · Different cultural beliefs and traditional foods
- The way culture is shown in media and sport
- How to be culturally aware when travelling





What careers could I use this in? You could use this subject in any future career!

If you're working overseas, you'll need to know about the culture and people of that place

If you're working with the general public, you'll need to be aware of their culture to support, cater for or represent them

If you're working with any people at all...

- International Relations
- Translator
- Tour Operator
- Politics
- Youth Worker
- Retail or Business owner
- All jobs!



# Vocational Education and Training PUBLIC SCHOOLS NSW, ULTIMO RTO 90072 2022 VET COURSE DESCRIPTIONS

#### Stage 5 Vocational Education and Training (VET) Courses

Vocational Education and Training (VET) courses are offered as part of the Higher School Certificate (HSC) or Record of School Achievement (RoSA). VET courses are designed to deliver workplace-specific skills and knowledge and cover a wide range of careers and industries. VET courses for secondary students are developed by NSW Educational Standards Authority (NESA) and are based on national training packages.

VET courses allow students to gain both HSC or RoSA qualifications and a national qualification or a statement of attainment recognised throughout Australia as part of the Australian Qualification Framework (AQF). These qualifications are widely recognised by industry, employers and tertiary training providers and universities and will assist students to progress to various education and training sectors and employment.

Public Schools NSW, Ultimo is accredited as a Registered Training Organisation (RTO 90072) to deliver and assess VET qualifications to secondary students.

It is mandatory for all students studying a VET course to create a Unique Student Identifier (USI) upon enrolment. Students will require a form of identification for the creation of the USI. Examples include a Medicare Card, Australian Birth Certificate, Driver's License or a valid Passport.

Assessment in all VET courses is competency based. The student is assessed on what they can do (the skills) and what they know (the knowledge) that will equip them in the workplace. Students are either deemed "competent" or "not yet competent" by the teacher. Students who have successfully achieved competency will have the skills and knowledge to complete workplace activities in a range of different situations and environments, to an industry standard of performance expected in the workplace.

Competency-based assessment materials are designed to ensure each learner has achieved all the outcomes (skills and knowledge) to the level of the qualification. Competency-based training is based on performance standards that have been set by industry. Students will receive documentation showing any competencies achieved for the VET course undertaken.

Students in Years 9 and 10 (Stage 5) may access VET courses through two curriculum pathways:

- Stage 5 VET Board Endorsed courses
- Early commencement of Stage 6 VET courses.

All Stage 5 VET Board Endorsed Courses contribute 100 hours to the student's pattern of study. Work placement is not compulsory for these courses.

Due to the specific requirements of a VET course it is recommended students speak to the VET Coordinator or Careers Adviser before choosing the course to ensure they are fully aware of the requirements and the course is suitable for their individual needs, knowledge and skills.



### Public Schools NSW, Ultimo Registered Training Organisation 90072 VOCATIONAL EDUCATION and TRAINING

#### 2022 AGRIFOOD OPERATIONS COURSE DESCRIPTION STAGE 5

This may change due to Training Package and NSW Education Standards Authority (NESA) updates. **Education** Notification of variations will be made in due time with minimal disruption or disadvantage.

Course: AgriFood Operations (100 indicative hours)

**Board Endorsed Course** 

This course is accredited for the Record of School Achievement (RoSA) and provides students with the opportunity to obtain nationally recognised vocational qualifications.

# AHC10216 Certificate I in AgriFood Operations

Based on AHC – Agriculture, Horticulture and Conservation & Land Management (AHC) Training Package Version 4

**Units of Competency** 

Core (35 Hours)

AHCWHS101 Work safely

AHCWRK101 Maintain the workplace

#### **Electives** (65 Hours) Option 2: Livestock Focs

AHCNSY101 Support nursery work

AHCCHM101 Follow basic chemical safety rules
AHCLSK101 Support extensive livestock work
AHCLSK102 Support intensive livestock work

Teachers must hold the relevant units of competency in their transcripts and/or may be required to complete a mapping document. Schools must have permission from the RTO to deliver course electives.

Students may apply for Recognition of Prior Learning and /or credit transfer provided suitable evidence is submitted.

#### **Recommended Entry Requirements**

Students selecting this course should be interested in working on the school farm and with livestock. They should be able to use small and large pieces of farm equipment and machinery, lift and carry, and work with and around animals. They will be required to attend out of school hours activities e.g. showing livestock at local agricultural show, tending to the livestock. There will be out of class homework, research activities and assignments.

#### Pathways to further study

As part of the HSC, students may complete AHC20116 Certificate II in Agriculture. A school-based traineeship is available in this field, for more information: http://www.sbatinnsw.info/

#### Project and work-based learning

This course is based on project based learning where the students are involved in a number of projects, events or activities around the school or during out of class hours. These could include group project work, individual research or other activities. Career, enterprise and work education programs currently operating in the school may be linked to the AgriFood Operations course.

#### Competency-Based Assessment

Students in this course work to develop the competencies, skills and knowledge described by each unit of competency listed above. To be assessed as competent a student must demonstrate to a qualified assessor the competency requirements for performance and knowledge of the units/s of competency.

#### **Appeals and Complaints**

Students may lodge a complaint or an appeal about a decision (including assessment decisions) through the VET teacher.

Course Costs: Resources \$ 0 Consumables \$ 25 Other \$ 0

Refund Arrangements on a pro-rata basis

Please see your VET teacher to enquire about financial assistance

Exclusions - Nil

VET course exclusions for this course can be checked on the NESA website at <a href="http://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/vet/vet-board-endorsed-courses/agrifood-operations">http://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/vet/vet-board-endorsed-courses/agrifood-operations</a>



#### Public Schools NSW, Ultimo Registered Training Organisation 90072 **VOCATIONAL EDUCATION and TRAINING** 2022 HOSPITALITY COURSE DESCRIPTION STAGE 5



This may change due to Training Package and NSW Education Standards Authority (NESA) updates. Notification of variations will be made in due time with minimal disruption or disadvantage.

Course: Hospitality (100 indicative hours)

**Board Endorsed Course** 

This course is accredited for the Record of School Achievement (RoSA) and provides students with the opportunity to obtain nationally recognised vocational training.

#### SIT10216 Certificate I in Hospitality

Based on Tourism, Travel and Hospitality Training Package

(Release 1.2)

#### **Units of Competency**

Core

SITXWHS001 Participate in safe work practices

SITXCCS001 Provide customer information and assistance

BSBWOR203 Work effectively with others **Electives** 

SITXFSA001 Use hygienic practices for food safety TLIE1005 Carry out basic workplace calculations SITHCCC003 Prepare and present sandwiches SITHFAB005 Prepare and serve espresso coffee

Students may apply for Recognition of Prior Learning and /or credit transfer provided suitable evidence is submitted.

#### **Recommended Entry Requirements**

Students selecting this course should be interested in working in a hospitality environment preparing and serving food and beverages to customers. They should be able to lift and carry equipment, use hand held and larger commercial kitchen equipment. Students may be required to participate in after-hours school events and functions. There will be out of class homework, research activities and assignments.

Pathways to Further Study

As part of the HSC, students may complete SIT20316 Certificate II in Hospitality or SIT20416 Certificate II in Kitchen Operations.

School-based traineeships are also available in this field.

#### Project and work-based learning

This course is based on project-based learning where the students are involved in a number of projects, functions and activities around the school or during out of class hours. These could include group project work, individual research or other activities.

#### Competency-Based Assessment

Students in this course work to develop the competencies, skills and knowledge described by each unit of competency listed above. To be assessed as competent a student must demonstrate to a qualified assessor the competency requirements for performance and knowledge of the units/s of competency.

#### **Appeals and Complaints**

Students may lodge a complaint or an appeal about a decision (including assessment decisions) through the VET teacher.

Course Costs: Resources \$ 0 Consumables \$ 45 Other: Apron - \$12

Refund Arrangements on a pro-rata basis

Please see your VET teacher to enquire about financial assistance

Exclusions - Nil

VET course exclusions for this course can be checked on the NESA website at

http://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/vet/vet-board-endorsed-courses/hospitality



### **ACCELERATED MATHEMATICS**

This program is for selected mathematically Gifted and Talented students. The program is designed in a way to create a satisfying, enjoyable learning environment whilst having an emphasis on academic standards and the integration of mathematics knowledge.

In this program, students work ahead of the Year Cohort in Mathematics.

Students who are **selected** to be in the Accelerated Mathematics program in Year 9 will undertake the following pattern of study:

**Year 9**: Complete the Year 9 (Stage 5.3) and Year 10 (Stage 5.3) courses.

**Year 10**: Complete the Preliminary Year 11 Mathematics Advanced and

Mathematics Extension 1 courses.

**Year 11** Complete the HSC in Mathematics Advanced and Mathematics

Extension 1 courses.

**Year 12**: Students may choose to complete the Mathematics Extension 2 course

and sit the HSC examination for this course.

Students who are in the Accelerated Mathematics class need to demonstrate maturity and diligence towards independent study. Students need to show commitment towards learning by completing all set tasks to a high standard, and by showing a desire to be challenged.

Students and their parent/guardian will need to complete an application form.

A panel will review all applications on the basis of:

- Academic performance
- Ability to undertake higher order tasks
- Work ethic, commitment to study and overall student motivation

Note: An Accelerated Mathematics entry examination will also be conducted to supplement the application process. Students must undergo a selection process before they can enrol in this course. A Mathematics representative will inform you of your enrolment.

#### **Applying for Accelerated Progression**

A student **must apply** for an acceleration course and this does not guarantee automatic acceptance into the program.

To apply for a course of acceleration the student must:

- Complete the Student Declaration on the Accelerated Progression Application form
- Have their parents complete the Parent Declaration on the Application form
- Have the relevant Head Teacher, and if applicable Teacher, complete the Faculty Declaration on the Application form
- Have demonstrated outstanding knowledge, skills and interest in mathematics.
- Meet with the school counsellor to discuss the rigours of acceleration, determine motivations and to ensure the student is an appropriate candidate. This meeting will take place after the application form has been received. The school will arrange this meeting and students will be notified of a time when they need to attend.

# Application Forms need to be submitted to the Mathematics Staffroom by Thursday 24<sup>th</sup> June, 2021.

Applications will be reviewed by a committee comprised of the Head Teacher of Mathematics, the Gifted and Talented Co-ordinator and a member of the Senior Executive.

Students will not be notified of the result of their application until Term 4 in the year before acceleration is due to commence due to timetable considerations.

In some instances, the review committee may seek further information from the student, their parent or the faculty before accepting or rejecting an application. This may take the form of an interview, review of school reports and records or other forms to support the application.

#### **Monitoring Accelerated Progression**

Students who are part of a program of Accelerated Progression will be supported first and foremost by their classroom teacher. Additional support will be provided by the Head Teacher and Year Adviser to ensure that the accelerated student is well-supported.

Importantly, the student undertaking acceleration must be academically capable of performing at a level commensurate with the year group they are entering. As such, there will be an expectation that students demonstrate independent learning skills. This will involve seeking help when they are unsure of tasks or concepts and working closely with their teacher and the Head Teacher. Students must take responsibility for their learning and performance.

It is possible that an accelerated student's performance may drop to a level where they are clearly not coping with the workload of their accelerated course. In such a case the student will be mentored to see if their performance can be improved. If mentoring fails to arrest their performance decline, then they may need to leave the accelerated course and return to a non-accelerated pattern of study. In such an instance, the student, Teacher and Head Teacher will liaise with the Deputy Principal to find a suitable position in an appropriate course.