



MELVILLE  
SENIOR HIGH SCHOOL

YEAR 10  
2023 SUBJECT  
HANDBOOK



Melville Senior High School  
acknowledges the Noongar people  
as the Traditional Owners of the land  
on which the school stands today  
and pays its respects to the Whadjuk  
people, and Elders past, present  
and emerging

## CONTENTS

Welcome	4
Gifted And Talented	5
Academic Extension Course	5
Aviation	6
Graphic Design Media	7
Music In Focus Program	8
Netball Specialist Program	9
The Arts	10
English	13
Health & Physical Education	14
Humanities & Social Sciences	16
Languages	17
Mathematics	19
Science	20
Technologies	21

Resilient Innovative Successful

[www.melville.wa.edu.au](http://www.melville.wa.edu.au)  
[melville.shs@education.wa.edu.au](mailto:melville.shs@education.wa.edu.au)  
(08) 6274 1300

# WELCOME

This booklet outlines the academic courses available to students entering Year 10. The program that you will select aims to give you a “taste” of subjects that fit your needs and/or interests and in which you will ultimately specialise through continued study in Years 11 and 12.

Please be aware that though course costs are listed, these charges may vary due to unforeseen changes in curriculum delivery.

## Year 10 Course Hours

LEARNING AREA		HOURS PER WEEK	
The Arts	Elective	2hrs	Choice of courses for the whole year
English	Compulsory	4hrs	Placement by Learning Area Teacher
Health & Physical Education	Compulsory with choice	4hrs	Choice of courses for the whole year
Languages	Elective	4hrs	Choice of courses for the whole year
Mathematics	Compulsory	4hrs	Placement by Learning Area Teacher
Science	Compulsory	4hrs	Placement by Learning Area Teacher
Humanities & Social Sciences	Compulsory	4hrs	Placement by Learning Area Teacher
Technologies	Elective	2hrs	Choice of courses for the whole year
START	Compulsory	1hr	Placement by Year Coordinator

Students will study two year long electives from either the Arts, Languages or Technologies. Some specialist programs and electives are timetabled for four hours and will count as two year long electives.



# GIFTED AND TALENTED

## Selective Academic Program

Melville Senior High School is one of the fourteen public secondary metropolitan schools to have a Gifted and Talented Selective Entrance Academic Program. A key feature of the Gifted and Talented program at Melville Senior High School is the extension, enrichment and extracurricular activities offered.

Students will receive academic rigour through extended learning and enrichment opportunities in Maths, English, Science and the Humanities learning areas. The Gifted and Talented Program does not skip foundational curriculum content, but instead attains this content at a student-guided pace, while matching the complexity and depth with the readiness and motivation of the class. In the classroom, Gifted and Talented students receive more appropriate work to match their skills and abilities, this includes extension in investigations, cross-curricular concepts, critical thinking and using information to create and explore relationships. In addition, the Gifted and Talented Program uses enrichment activities and opportunities in conjunction with Maths, English, Science and Humanities subject content to provide new experiences for students. This is evident in exclusive participation in excursions, engagement in outreach workshops/programs with universities, team-building camps and engagement in state and national competitions. Our experienced Gifted and Talented teachers and coordinator, as well as other school staff, help to support students in their social and emotional development as young adolescents and provide them with the best opportunities in their academic journey.

Selection into the program is based on the results of the Academic Selective Entrance Test (ASET). Testing for the program is available in Years 9, 10 and 11. For more [information on the program and testing dates, please click here.](#)

## ACADEMIC EXTENSION COURSE

The Academic Extension Course (AEC) provides a differentiated curriculum where students' needs are catered for by acknowledging various learning styles and rates of learning. Students are involved in developing higher-order strategies, problem-solving skills, and creative and divergent thinking. They are encouraged to take more responsibility for their education. Extras include competitions, workshops, excursions, and rich tasks based on a thematic approach.

### **How Is The Course Structured?**

The Academic Extension Course is designed so that students are given every opportunity to optimise their areas of talent, therefore we have divided the program into two areas:

1. Humanities (English & Humanities & Social Sciences)
2. Maths & Sciences (Maths & Science)

Some students demonstrate exceptional ability in all four subjects and will be placed in the Humanities and Maths/Science areas, whilst other students may be talented in one area i.e. Humanities and will be in this component of the course.

### **How Are Students Identified?**

The identification program aims to include rather than exclude. Students are selected through a school run process. Once in school, Years 7 to 10 students are mainly nominated by their teachers to enter the program. As outlined in the Department of Education's Policy for Identification of Gifted Students are identified by past school grades and NAPLAN test results. Ongoing inclusion in AEC requires high academic achievement and that students have a strong level of commitment in terms of participation, attitude and achievement

# AVIATION

## Approved Specialist Program

AVIATION

YEAR COST: \$104.00

OPTIONAL REPL LICENCE: \$750.00

OPTIONAL CERT III AVIATION (REMOTE PILOT) \$750.00

### **Flying the Aircraft**

This topic covers flight in a powered aircraft and flight performance and operation.

Educational Objectives covered:

- Aircraft performance and operation
- All phases of flight including taxiing, take-off, climbing and descending, manoeuvring, landing
- A flight assessment in a real aircraft

### **Human Performance and Limitations**

This topic examines the human element of aviation. It addresses many of the human factors which affect flight. Educational objectives covered:

- Stress
- Aviation medicine and physiology
- Visual perception
- Analysis of safety technologies used in modern aircraft and its effect on society
- Drugs
- Pilot fatigue
- Ergonomics of cockpit design

### **Drone Licence Semester 2**

Students cover all aspects of the CASA (Civil Aviation Safety Authority) theoretical and practical syllabus of training. Flight training will be done along with classroom learning to achieve the CASA educational objectives. The CASA Remote Pilot Licence (RePL) will require a fee of \$750 for the external provider's charges and access to online learning. School based assessments will differ to CASA tests for those students who do not wish to take the CASA tests. This is a huge saving compared to partaking a CASA course externally as the licence normally costs approximately \$4000. Students will be able to seek employment as a licenced drone pilot if they pass the CASA testing process.

Further opportunities exist for students who gain the licence to complete a two day training course to achieve a Cert 3 in Aviation – (Remote Pilot). This would have a fee of \$750 in addition to the \$750 for the RePL.

Educational objectives covered;

- Flight training with a drone (UAV)
- Rules and legislation with regards to drone flight
- Developing a drone business

Entry to the Aviation Course is only available to those students who have been selected by the testing and/or interview with Aviation Teacher in Charge process.

# GRAPHIC DESIGN MEDIA

## Approved Specialist Program

Graphic Design Media students will cover a wide variety of contexts from different areas of Design, Media and Visual Art during this year.

### GRAPHIC DESIGN MEDIA

YEAR COST: \$130.00

#### **Core (class) Curriculum (Four hours per week in class)**

The program delivers learning from the Visual Arts and Media Arts Curricula with cross-curricular enrichment from Science, Mathematics, Technologies and English. The program runs sequentially from Year 7 to Year 10, focusing on Project Based Learning. The main projects will typically be term-based assignments that develop different aspects of a student's skills and knowledge while strengthening their understanding of the design process. Projects may include animation, film production, 3D design, fashion and textile design, game design, print media production and much more.

#### **Co-Curriculum**

At the heart of the program are the professional masterclass workshops. These enable our students to work with both industry and university professionals in the areas of Design, Media and Technology and showcase the career pathways available to students interested in these creative industries.

#### **After Hours**

In the same way that other specialist programs have out of school hours components to their courses it is expected that GDM students spend time out of class practicing skills and/or extending class work. It is suggested that 1 hour for every hour of class time be set aside as a nominal benchmark per week. This will include activities such as:

- Sketching and drawing from life
- Scrap booking and collecting
- Completing software tutorials (usually online)
- Creating photo journals
- Collecting reference materials and imagery for projects at school

#### **Entry Requirements/Pre-requisites**

As a certified Specialist Program, GDM recruits students state-wide. They are selected based on academic testing, creativity and portfolio interview. Students may exhibit a wide range of different types of projects in their portfolios, though the emphasis is on students who are able to work independently and who have demonstrated both sustained commitment and technical quality in their work.

\* Please note that very few students are selected to begin Graphic Design Media in Year 10 as the usual entry point is Year 7. Special circumstances and transferees from other schools will be considered assuming places are still available and wait lists have been exhausted.

#### **Support**

The GDM program at Melville SHS is underpinned by a dynamic parent support group who contribute to the richness of the program through direct assistance and fundraising activities.

# MUSIC IN FOCUS PROGRAM

School Based Program

MUSIC IN FOCUS

YEAR COST: \$120.00

PLUS ENSEMBLE & INSTRUMENTAL LESSONS

## Core Curriculum (Four hours per week in class)

The Music in Focus course in Year 10 provides students with the opportunity to prepare for the Year 11 & 12 ATAR Music course. Class curriculum covers topics such as: music history and theory; music for film and television; creating and composition in a musical context; and in-class band performance and rehearsal.

It is highly recommended that students planning to choose the ATAR Music course for Years 11 & 12 also choose the Certificate course offered in Year 10 as a complementary course.

## Co-curriculum

*Instrumental Music School Services* provide lessons free of charge at Melville Senior High School to students selected for the Music in Focus Program who are continuing lessons from Year 9. Lessons are available on Classical Guitar, Electric Guitar, Bass Guitar, Percussion, Brass, Saxophone, Clarinet and Flute.

As a part of their classroom studies students will continue their lessons with IMSS's instrumental teachers. This part of the students' program provides opportunities for the extension and practical application of classroom learning.

It also is a condition of enrolment in the Music in Focus program that all students join the Vocal Ensemble for 1 hour per week and are also required to join our Senior Concert Band, our Intermediate Concert Band or our Classical Guitar Ensemble which rehearse once a week before or after school to fulfil the ensemble requirement of the course.

## Extra-Curriculum

Music in Focus students are also given many exciting opportunities to enrich and extend learning through participation in camps, tours, workshops and a variety of public performance opportunities.

## After Hours

It is expected that Music in Focus students spend time out of class practicing skills and/or extending class work. In addition to regular instrumental practice it is suggested that students set aside one hour for every hour of class time as a nominal benchmark per week. This will include activities such as:

- Instrumental practice
- Ensemble repertoire
- Set works study/other homework

The following ensembles and bands have after-hours rehearsal commitments:

- Classical Guitar Ensemble (Years 7-12)
- Intermediate Concert Band (Years 7-10)
- Junior Vocal Ensemble (Years 7)
- Swing Band (invitation only)
- Senior Concert Band (Years 10-12)
- Melville VOX Vocal Ensemble (voice students)

## Entry Requirements/Pre-requisites

Successful completion of the Year 7 Music in Focus Program or completion of the application process including an audition and interview with the Music Teacher-in-Charge for selected applicants.

## Support

The Music in Focus Program is underpinned by a dynamic parent support group who contribute to the richness of the program through direct assistance, participation in extra-curricular activities and fundraising activities.

# NETBALL SPECIALIST PROGRAM

## Specialist Program

NETBALL

YEAR COST: \$180.00

### **What are the qualities and elements of the program that make it special?**

Melville Senior High School provides students with 4 lessons per week all year round. The majority of the sessions are on the court learning new skills, strategies and improving both individual and team skill levels. There are opportunities to co-operate in a team environment through use of communication activities both on the court and in the classroom, develop a higher understanding of the game, understand nutrition and develop umpiring and coaching abilities as part of the theory side of the program.

Levels are according to the outcomes in Physical Education: skills for physical activity, self-management skills, interpersonal skills and knowledge and understanding.

### **How does the program provide rigour and challenge, pursuit of excellence, individual learning and problem solving ability to meet the needs and interests of my child?**

The program is developed with input from Netball WA and is designed to add to the experience and skills that have been developed in the individual through their club participation and training. Students will follow individual programs and will be able to chart their improvement and progress as they go through the course. Students will become flexible in the positions in which they can play, and will also be provided with opportunities for development in positions in which they may specialise. Students will learn to manage, coach and umpire throughout the program, and will be expected to put their experience and knowledge into practice when participating with their club. There will be a practical experience component to the course where the students will be expected to demonstrate their management, coaching and umpiring abilities as part of their assessment.

### **What are the anticipated student outcomes and achievement at various levels, e.g. local, state and national levels of recognition?**

*Outcomes anticipated are as follows:*

Year 7	Rules of the game Foundation Netball Skills
Year 8	Introduction to Umpiring Nutrition for Performance
Year 9	Netball Australia Foundation Umpiring Umpiring primary school tournaments
Year 10	Netball Australia Foundation Coaching course Phys. Ed. Studies Course introduction Ability to coach, manage and umpire games (Years 10-12)
Year 11 & 12	Ability to organise all aspects of a netball carnival (Year 11/12) Phys. Ed. Studies / Sport Coaching Certificate – netball specific course (Year 11/12) Edith Cowan University Short Course – Introduction to sport science.



## THE ARTS

The Arts provide opportunities for students to learn how to create, design, represent, communicate and share their imagined and conceptual ideas, emotions, observations and experiences, as they discover and interpret the world. They entertain, inform, challenge, and encourage responses, and enrich our knowledge of self, communities, world cultures and histories.

The Arts contribute to the development of confident and creative individuals, nurturing and challenging active and informed citizens. Learning in the Arts is based on cognitive, affective and sensory/ kinaesthetic response to arts practices as students revisit increasingly complex content, skills and processes with developing confidence and sophistication through the years of schooling.

At Melville staff aim to provide students with authentic learning experiences that engage their minds, hearts, and bodies with learning experiences that are real and meaningful for them. While learning in other disciplines may often focus on development of a single skill or talent, the Arts regularly engage multiple skills and abilities. Engagement in the Arts – whether in Visual Arts or Performing Arts – nurtures the development of cognitive, social, and personal competencies.

Arts Curriculum is divided into two distinct but related areas:

- Performing Arts (PA) – in which students learn in the Performing Arts or Music contexts
- Visual Arts (VA) in which students learn in Media Arts, Visual Arts or Design contexts

The table below reflects the multitude of Arts courses on offer in the Visual and Performing Arts. It represents the progression through various Arts courses into Senior School. Whilst an advantage, Senior School courses do not require previous experience in Middle School. However, a ‘C’ grade or higher in English is recommended for all classes.

In Year 10 students are free to undertake studies in Performing Arts and Visual Arts over the academic year. Selections should be based on personal interest and, importantly, aspiration for senior school courses.

### Pathways

Contexts	Performing Arts				Visual Arts				
				SPECIALIST Select Entry					SPECIALIST Select Entry
YEAR 10 Year long Courses	Drama	Dance	Cert II in Music Industry	Music in Focus	Visual Art 1	Visual Art 2	Media Arts	Design	Graphic Design Media
Years 11/12 Courses of study	Drama - ATAR Cert II Live Production Cert II Dance		Music - ATAR Cert III Music Industry		Design - Graphics - ATAR Media Production & Analysis - ATAR Visual Art - ATAR Design - Graphics - General Media Production & Analysis - General Visual Art + embedded Cert. II in Visual Arts Cert. III in Screen Media				

Whilst an advantage, Senior School courses do not require previous experience in Middle School. However, a ‘C’ grade or higher in Year 10 English is recommended for all classes.

## Performing Arts

### DRAMA

YEARLY COST \$100.00

Pre-Requisites: Nil

This year-long course allows students to extend their understanding of skills, techniques and processes of Drama. This course focuses on Drama and the study of different styles of theatre including Realism and Greek Theatre. Students will develop a deeper understanding of actor and design elements. Including voice, movement, costume and scenography design.

Students will explore scripts, improvisation and lighting configurations. Learning can be applied in performances in class, at showcases, festivals or in other parts of the school's performance program. This course provides sound preparation for students aspiring to study relevant courses in Year 11 and 12 or who have a desire to pursue a career in Drama and Performing Arts.

### DANCE

YEARLY COST \$100.00

Pre-Requisites: Nil

This year-long course allows students to extend their understanding of skills, techniques and processes of Dance. This course focuses on Dance, expanding student repertoire by refining existing technique and skill and introducing other dance genres such as jazz, contemporary, lyrical and hip-hop/urban dance. Students will develop a deeper understanding of improvisation, choreography and technique through learning and performing routines. Students will explore elements of dance such as body, energy, space and time.

Learning can be applied in performances in class, at festivals, showcases or in other parts of the school's performance program. This course sound preparation for students aspiring to study relevant courses in Years 11 and 12 or who have a desire to pursue a career in the Performing Arts.

### CERTIFICATE II IN MUSIC

YEARLY COST \$170.00

Pre-Requisites: Nil

This VET qualification is suitable for students who have completed Music Appreciation electives in Year 9. This course can also be undertaken as an additional course for Music in Focus students.

Students completing this course receive an industry relevant, nationally accredited, qualification that at an industry entry level that also provides a pathway into the Music Certificate III in years 11 and 12. This qualification is one year in duration, comprises 8 units of competency and is designed to be practical and engaging.

Learning is applied practically in performances, composition productions and other industry style activities at the school. It is also preferred that students undertake IMSS lessons or private instrumental tuition as part of their studies.

## Visual Arts

### VISUAL ART 1 (EXPLORATIONS)

YEAR COST \$100.00

Pre-Requisites: Nil

In this course students explore two-dimensional media, materials, techniques and technologies, such as drawing, painting, and printing. Students also analyse art forms from different times and places, responding using Visual Art language about meaning, style and intent. They develop understanding of how contexts impact on the development of ideas and production of art forms in the artistic process.

Students apply their understanding of the elements and principles of art and Visual Art conventions to suit a chosen art style and/or art form as they complete project-based artworks where they will

document the artistic process from artistic intentions to evaluations of the completed artworks. They will then present all of their work in a folio. This course is a suitable pathway for students who wish to study General or Visual Art ATAR, or who have a desire to pursue visual art outside of school.

### VISUAL ART 2 (INSPIRATION)

YEAR COST \$100.00

Pre-Requisites: Nil

In this course students explore three-dimensional media, materials, techniques and technologies, such as clay hand building skills, pottery wheels, as well as a variety of other sculptural media and techniques.

Students will also analyse art forms from different times and places and provide responses using Visual Art language about meaning, style and intent. They will develop a greater understanding of how contexts impact on the development of ideas and production of art forms in the artistic process.

Students apply their understanding of the elements and principles of art and Visual Art conventions to suit a chosen art style and/or art form. They complete project-based artworks where they document the artistic process from artistic intentions to evaluations of the completed artworks. They then present all of their work in a folio.

This course is a suitable pathway for students who wish to study General or Visual Art ATAR, or who have a desire to pursue visual art outside of school.

### MEDIA ARTS

YEAR COST \$100.00

Pre-Requisites: Nil

Media is an important part of our culture. It gives us entertainment and information; it tells us stories about ourselves and others. Most importantly, media is entirely about how we communicate with each other and the world around us. This course aims to prepare all students for a future in a digital and global world by providing the foundation for life-long learning about media.

This course develops complex understanding of key Media concepts and skills. Students view and respond to examples of different media works and in doing so develop an understanding of the language and terminology of Media.

Students work independently and/or collaboratively to create their own complex media works that may include audio visual media work, static or print media work, interactive media work, or animated media work. They also develop complex skills in using current media production technologies and industry standard production software.

This course is a suitable pathway for students with an interest in studying General or Media ATAR or obtaining a Certificate in Screen & Media, or who have a desire to pursue a career in Media.

### DESIGN (GRAPHICS & PHOTOGRAPHY)

YEAR COST \$100.00

Pre-Requisites: Nil

In this course students will consolidate and apply their understanding of the elements and principles of design used in Graphics and Photography. Students will also analyse designs, both contemporary and historical, and provide responses about purpose, technique and effectiveness

Students will learn to meet brief requirements and complete project-based designs aimed at creating graphical solutions to real-life situations. They will explore design fundamentals, techniques and technologies and document their process to develop a body of work presented in a folio.

This course is a suitable pathway for students who wish to study General or Design ATAR or who have a desire to pursue a career in Graphic Design.

# ENGLISH

## ENGLISH GIFTED AND TALENTED ENGLISH

YEAR COST: \$25.00  
YEAR COST: \$60.00

English is a compulsory subject in Years 11 and 12 and a focus for Year 10 will be preparing students for the demands of Senior School. Students in Year 10 will read and analyse a range of text types. They will be required to demonstrate mastery of writing creatively and analytically. Students will be taught to organise their writing ideas in a logical way and develop skills to critically respond to literary, popular and visual texts.

A feature of the Year 10 course will be the end of semester examinations, which will make up a percentage of the course results. Students will be taught to study and prepare for English examinations and are encouraged to develop strategies for writing in a limited time frame.

The Year 10 Western Australian curriculum focuses on developing knowledge, accuracy, fluency, and confidence in speaking, reading and writing English. Attention will be given to the teaching of grammar across all the years of schooling to help students understand the functioning of language.

## ENGLISH AS A SECOND LANGUAGE/DIALECT

YEAR COST: \$25.00

EAL/D English is a flexible program of instruction for language and literacy development, designed to assist students whose first language is not English. EAL/D classes are formed in Years 7 to 10 as required. Students new to the Australian context are encouraged to check their eligibility upon enrolment. This course focuses on improving oral and written language skills across a range of English texts and subject area content.

In the EAL/D Course, grades achieved by students are based on each student's progress against the EAL/D progress maps in the four language modes: speaking, listening, reading/viewing and writing. All lower school EAL/D programs are designed to effectively prepare students for achieving their WACE through participation in the English as an Additional Language EAL/D.

### Pathways

Year 10	English Mainstream Pathway 2	Academic Extension Course Pathway 1	Gifted & Talented Pathway 1	English as a Second Language
Years 11/12	English General English ATAR Literature ATAR	English ATAR Literature ATAR	English ATAR Literature ATAR	EAL/D English ATAR English General

Minimum Prerequisite in Year 10	Extra requirement	Year 11	Year 12
> 65%	Teacher recommendation outstanding result in Year 10 examination	Literature ATAR	Literature ATAR
> 65%	Teacher recommendation strong result in Year 10 examination	English ATAR	English ATAR
> 65%	Teacher recommendation and SCSA approval	EAL/D ATAR	EAL/D ATAR
>50%	Teacher recommendation satisfactory result in Year 10 examination	English General	English General
>50%	Teacher recommendation and SCSA approval	EAL/D General	EAL/D General

## HEALTH & PHYSICAL EDUCATION

### HEALTH EDUCATION

YEAR COST: \$16.00

This is a compulsory subject which all Year 10 students engage in for two one-hour sessions per week. Acquiring essential knowledge and developing skills necessary for healthy decision-making is the underlying focus of the Year 10 Health Education program. Content includes understanding different types of relationships, sexually transmitted infections, illicit drugs and their effects on individuals, families and the wider community. As part of the program students take part in the Keys for Life pre-driver education program aimed to develop positive road user attitudes in young people.

An incentive of this program is that students start the Learner's Permit application process at school and redeem a Keys for Life school certificate for their Learner's Permit when they commence their driving lessons. The Year 10 Health Education program also aims to commence the preparation of students for the Year 11 Health Studies ATAR (Units 1 and 2) and Year 11 Health Studies General (Units 1 and 2) in Senior School.

**Choose one of the following:**

### GENERAL PHYSICAL EDUCATION

YEAR COST: \$21.00

The General Physical Education course builds on the knowledge and skills students have developed in year 7 to 9. Students will participate in a variety of sports including badminton, softball, beach volleyball, handball, Gaelic and social dance. The primary focus of the Year 10 program is to develop students fitness, physical skills, communication and self-management skills through a game focused approach.

### OUTDOOR EDUCATION

YEAR COST: \$160.00

Students selecting this elective will develop their snorkelling, bush-walking, camping, and roping skills. The physical pursuits will be combined with education on environmental and social issues that apply to safe practice, appreciation and ethics related to using outdoor environments. The course will include field trips and will involve out of school time. This course is year long, 2 periods per week and will prepare students for Outdoor Education in senior school. *This course has a minimum swimming requirement to ensure students can participate safely and successfully in this subject.*

### SOCCER PROGRAM

YEAR COST: \$70.00

This class will be delivered by a specialist soccer coach. The program aims to develop personal and team skills through training, games and representing Melville SHS in competition. Skills and understandings will also be developed in coaching and umpiring. It is expected that students will be involved with the sport outside the school and already have a foundation level of skill development. Students will develop their knowledge of strategies, tactics and formations throughout the Year 10 Soccer Program. They may also engage in some coaching of local primary school students to further develop their communication and leadership skills and to share their knowledge with younger peers who are passionate about the game of soccer also. This program has a 'learning through game-play' focus.

## RECREATION

YEAR COST: \$110.00

Students who select the Recreation elective will enjoy a mix of individual pursuits, social sports and recreational activities. There will be less of a competitive game-play focus in this class and rather a focus on experiencing individual and group-based recreational activities that enable students to learn new skills and expand their experiences in a range of community based recreational activities. This is a new elective and the course will include a number of the activities listed below; boccie, ten-pin bowling, lawn bowls, aqua aerobics, self defence, tennis, badminton, mountain bike riding, indoor climbing, ultimate Frisbee, personal fitness, yoga and croquet. Some activities in this subject may be dependent on and subject to, the availability of staff (and outside service providers) with the required qualifications to deliver this unit.

## ADVANCED ATHLETICS, SWIMMING & SPORT SCIENCE

YEAR COST: \$50.00

*(Note: students who select this subject will also participate in a selection of sports from the mainstream Year 10 PE program to add variety to the experiences provided to them).*

This is a continuation of the Year 8 and 9 Advanced Athletics, Swimming and Sport subject. Students may elect to participate in this subject instead of the mainstream Year 10 Physical Education subject. Students who select this subject need to have a genuine interest in athletics and swimming and be interested in improving their ability and performance in this subject. This course also aims to develop student's higher-level physical skills, movement patterns and knowledge of strategies and tactics to enhance performance in selected sports, which is an important part of the PE Studies ATAR courses in senior school. This course is recommended for students who have a strong interest in sport and sports science and for those students who are interested in selecting the PE Studies ATAR course for study in Year 11 and 12. A range of fun skill development activities have been designed to maximise individual performance in a variety of sporting contexts.

(Note: If an insufficient number of students select this subject, students will participate in the normal Year 10 mainstream PE program).

### Pathways

Year	Compulsory	Elective Components					Specialist Program
10	Health Education	Physical Education	Recreation	Outdoor Education	Advanced Athletics Swimming and Sport	Soccer	Netball
11/12	Health Education ATAR and General	Physical Education ATAR and General		Certificate II Sport Coaching		Certificate II Sport Coaching (Specialised Netball Pathway)	

# HUMANITIES & SOCIAL SCIENCES

## HUMANITIES AND SOCIAL SCIENCE

YEAR COST: \$25.00

In Year 10, Humanities and Social Sciences (HASS) students undertake several subjects offered in the Western Australian Curriculum. Humanities and Social Sciences will teach your child the transferable skills necessary to navigate changing circumstances in contemporary society.

In History, students will be learning about Australia's role in World War II, including investigations about the impact of World War II, especially on the Australian home front. Students examine the changing roles of women and the use of wartime government controls. Following our World War II study, students investigate the struggles of Aboriginal and Torres Strait Islander Peoples for rights and freedoms. Students examine the 1967 Referendum, the Stolen Generation and the national apology to Aboriginal people in 2008 by the then Prime Minister, Kevin Rudd.

The Year 10 Geography course focuses on investigating many global issues as part of environmental geography. In the local area, nationally and globally, people pose threats to our environments as they attempt to meet their needs. This threat can place these environments at risk and people's interests and concerns are often conflicted. Students will inquire into human-induced environmental changes that challenge sustainability, such as climate change and coastal erosion. Students will then examine the concept of well being and the reasons for spatial variations between countries in selected indicators of human well-being. Students will have the opportunity to enjoy a coastal fieldwork excursion as part of this course.

Students also study Civics and Citizenship to understand the key features and values of Australia's system of government, including democratic elections and the separation of powers. Students examine the international agreements Australia has ratified and provide examples of how these international agreements shape government policies and laws. Students then investigate the threats to Australia's democracy and other democracies, such as the influence of vested interests, organised crime, corruption and lawlessness.

Economics and Business will introduce students to how to analyse the indicators of economic success, using these to compare Australia's economy to other economies around the world. Students examine the distribution of income and wealth in the economy, including government methods to redistribute income. Students inquire into how governments manage an economy to improve economic performance and living standards.



The lawlessness of the 2005 Cronulla Riots shocked our nation.

Humanities is a fun and interactive subject that combines all learning areas and helps students develop a lifelong love of exploring their world. In Year 10, students will have the opportunity to be involved in some exciting excursions to apply the knowledge they have gained in the classroom to the real world.

### Pathways

Years 7 to 10	Semester 1 & 2 HASS - four hours per week							
Years 11/12	Accounting & Finance - ATAR	Economics - ATAR	Geography - ATAR	Modern History - ATAR	Politics and Law - ATAR	Career & Enterprise - General	Certificate II in Work Skills - General	Psychology - General

# LANGUAGES

*Speak a new language so that the world will be a new world*

Students are encouraged to continue their Languages studies in Year 10 and beyond to maximise competency and learning opportunities into the post-compulsory years of schooling and tertiary education.

Students intending on continuing their studies into university will greatly benefit from selecting a language in Year 10 and beyond: Universities throughout Australia give a bonus to any student who studies a language in Year 12. For such a student the TEA will be boosted by 10% of the final scaled mark. The TEA score boost will apply regardless of which faculty of the university the student joins. This is a tremendous way in which language students are able to be even better off in the competitive field of tertiary entrance.

Additionally, learning languages promotes intellectual development, enhances career prospects and improves communication skills. It also helps develop understanding of other cultures and the structure of your own language.

## Pathways

	Italian Language	Chinese Language
Year 10	Italian	Chinese
Years 11/12	Italian Second Language - General Italian Second Language - ATAR	Chinese Second Language - ATAR Chinese Background Language - ATAR Chinese First Language - ATAR

## ITALIAN

YEAR COST: \$20.00

The focus for this course is on making choice. Students will engage in activities associated with making choices for today and in the future, including health and physical activity, having a part-time job, learning a language and their future

Students will be able to identify information and ideas from a range of texts related to aspects of their personal and social worlds, and establish how culture and context influence their ideas. They will also explore activities and events associated with Italian communities, such as Italian sports, arts and entertainment.

Students will have the opportunity to attend a variety of incursions and excursions, as well as sampling delicious food and be immersed in the Italian culture.

## CHINESE

YEAR COST: \$20.00

### Semester 1

The focus is teenagers. It introduces students to the Chinese language and culture from a personal perspective, enabling them to share information related to personal identity, aspects of everyday life, and popular culture. They begin to develop an understanding of what it is to be Chinese-speaking, and compare their own lives to those of others in Chinese-speaking communities.

### Semester 2

The focus is hobbies and my free time. It is aimed at students who have basic knowledge of Chinese. They share information about and develop a sense of their own space and place. While developing the skills to travel within Chinese-speaking communities, students learn more about communities and their cultures and their sense of space and place.



# MATHEMATICS

MATHEMATICS  
MATHEMATICS - GIFTED AND TALENTED

YEAR COST: \$24.00  
YEAR COST: \$34.00

At this year level:

- **Understanding** includes applying the four operations to algebraic fractions, finding unknowns in formulas after substitution, making the connection between equations of relations and their graphs, comparing simple and compound interest in financial contexts and determining probabilities of two- and three-step experiments
- **Fluency** includes factorising and expanding algebraic expressions, using a range of strategies to solve equations and using calculations to investigate the shape of data sets
- **Problem-solving** includes calculating the surface area and volume of a diverse range of prisms to solve practical problems, finding unknown lengths and angles using applications of trigonometry, using algebraic and graphical techniques to find solutions to simultaneous equations and inequalities and investigating independence of events
- **Reasoning** includes formulating geometric proofs involving congruence and similarity, interpreting and evaluating media statements and interpreting and comparing data sets.

**Pathway 1** – for students aiming for Specialist, Methods or Applications course in upper school. Students complete the Year 10 course as outlined by SCSA with extension and enrichment, including work from 10A and introductory upper school courses. *Please note: A Casio Classpad is required for this course*

**Pathway 2\*** – for students aiming for Applications or Essential course in upper school. Students complete the Year 10 course as outlined by SCSA.

**Pathway 3\*** – for students aiming for Essential course in upper school or not choosing Mathematics in upper school. Students work from the Year 10 course at a slower pace with an aim at C grade achievement.

The following table shows the pre-requisites for selection of upper school courses at our school:

Course	Pre-requisite	STEM Careers (some examples)
Mathematics Specialist	'A' grade in Year 10 Mathematics Pathway 1 (Semester 1 &2) plus Teacher recommendation plus Enrolled in Mathematics Methods	Engineering, Physical Sciences, Mathematics
Mathematics Methods	'A' grade in Year 10 Mathematics Pathway 1 (Semester 1 & 2) plus Teacher recommendation	Statistics, Logistics, Architecture, Communications
Mathematics Applications	'B' grade or higher in Year 10 Mathematics Pathway 2 or higher	Teaching, Logistics, Nursing, Cyber Forensics, Design
Mathematics Essential (General course)	Interest in mathematics and the appropriate work ethic (Project based work to be completed to high standard and submitted on time and students required to sit an externally set task/test in Year 12)	Construction, Trades, Warehousing, Logistics

\*Please note that extra assistance is also provided for students who are required to complete OLNA.

## Pathways

Year 10	Semester 1 and 2 4 hours per week	Students may undertake a senior school course as determined by the G&T teacher		
Year 11/12	Mathematics Applications	Mathematics Methods	Mathematics Specialist	Mathematics Essential - General

High achieving students may be given the opportunity to study both Methods and Specialist.

**Prerequisites Required for ATAR Maths:** See Mathematics Booklet on our Website [HERE](#) for more information.

# SCIENCE

## SCIENCE

YEAR COST: \$34.00

For the start of Year 10, students will be placed into one of three science pathways.

- **The A Pathway** is the most challenging and designed to prepare students for the rigours of ALL Year 11 ATAR science courses and is the only pathway for students to study Chemistry, Physics and Biology.
- **The B pathway** prepares students for ATAR Human Biology
- **The C pathway** is a benign course designed to engage students not considering upper school science courses other than General Human Biology.

Students will be placed into pathways based on their overall performance in Year 9 Science and on parent/student request. It is important to have this organised by the end of Year 9.

During Year 10, A and B pathway students will cover the following conceptual areas: Physics, Chemistry and Biology.

'C' Pathway students will cover the following conceptual areas: Physics, Biology, Chemistry, Astronomy, Earth Sciences and Forensics

These outcomes are interwoven with the process outcomes of Investigating Scientifically.

Student achievement in Year 10 will determine ability to enrol in upper school courses.

'A' pathway students will need to achieve an A grade and receive teacher recommendation to be accepted into Year 11 ATAR Physics and Chemistry and Biology.

## Links To Upper School

### Year 11 Unit

Physics ATAR  
Chemistry ATAR  
Biology ATAR  
Human Biology ATAR  
General Human Biology

### Year 10 Minimum Prerequisite

A grade in physical sciences units and teacher recommendation  
A grade in chemical sciences units and teacher recommendation  
A grade in biological sciences units with teacher recommendation  
B grade in biological sciences units with teacher recommendation  
C grade in science or teacher recommendation

## Pathways

Year 10	Science				
Year 11/12	Physics ATAR	Chemistry ATAR	Biology ATAR	Human Biology ATAR	Human Biology General

## TECHNOLOGIES

In an increasingly technological and complex world, it is important to develop knowledge and skills to analyse and creatively respond to design and/or digital challenges. Society needs enterprising students who can make discerning decisions about the development and use of technologies, develop solutions to complex challenges and contribute to sustainable patterns of living. Technologies can play an important role in transforming, restoring and sustaining societies and natural, managed and constructed environments.

The Technologies curriculum is STEM focused and is divided into two distinct but related contexts:

- Design and Technologies (DAT) – in which students learn in the practical contexts of Aviation (Specialist), Materials Design, Materials Engineering, Food Technology, Clothing and Textile Design and Childcare Essentials.
- Digital Technologies (DT) – in which students learn in the digital contexts of Automata Engineering and Advanced Digital Design

The table below represents the progression through various Technologies courses into Senior School. Whilst an advantage, Senior School courses do not require previous experience in Middle School. However, a ‘C’ grade or higher in year 10 English is recommended for all classes.

In Year 10 students can undertake studies in any Design & Technologies and Digital Technologies courses over the academic year. Selections should be based on personal interest and importantly, aspiration for senior school courses.

### Pathways

Contexts	Design and Technologies			Digital Technologies		Specialist Program
Year 10 Year long Courses	Materials Design	Food Technology	Clothing and Textile Design	Automata Engineering	Advanced Digital Design	Aviation
	Materials Engineering		Childcare Essentials			
Year 11/12	Materials Design & Tech – Wood General	Food Science & Technology General	Children, Family & the Community General	Certificate II Engineering	Applied Information Technology ATAR	Aviation General
	Materials Design & Tech – Metal General				Applied Information Technology General	
	Building & Construction General					
	Certificate II in Engineering					

## **Design & Technologies**

### **MATERIALS DESIGN**

**YEAR COST: \$160.00**

Pre-requisites: Nil

In Materials Design, students refine their ability to work with materials including; timbers, plastics, metals, manufactured boards and resin. Students will design and make more interesting projects using hand and power tools, and machinery as well as using computer aided design and machining to enhance their product. They will apply the technology process by interpreting design problems and creating individualised solutions.

This course provides sound preparation for students who aspire to study related courses in years 11 and 12 or to develop skills for Engineering, Manufacturing or Trade careers.

### **MATERIALS ENGINEERING**

**YEAR COST: \$160.00**

Pre-requisites: Nil

In Materials Engineering, students refine their ability to work with materials including; timbers, plastics and metals. Student will investigate material properties and devise methods to test how they interact. Students will make a range of projects and devices using hand and power tools and use to computer aided drawing and machining to develop complexity in their designs.

This course provides sound preparation for students who aspire to study related courses in years 11 and 12 or to develop skills for Engineering, Manufacturing or Trade careers.

### **FOOD TECHNOLOGY**

**YEAR COST: \$210.00**

Pre-requisites: Nil

In this course, students will further explore food science, technology and nutrition to prepare them for Year 11 and 12 General Food Science and Technology. Students will produce a wide variety of complex dishes which are delicious and nutritious allowing them to further develop their food preparation skills. They will also expand their knowledge about nutrients, the physical and sensory properties of food, food sustainability, product development, marketing of food and new technology applications in food.

This course supports students who are aspiring to pursue a career in nutrition, health, food and beverage manufacturing, food processing, community services, hospitality and retail.

### **CHILDCARE ESSENTIALS**

**YEAR COST: \$160.00**

Pre-requisites: Nil

In this course, students will develop knowledge and skills to care for children ensuring their needs are met. This course will include a range of fun practical activities including both sewing and cooking. Students will also have the opportunity to spend time and create meaningful bonds with young children.

This course prepares students for Year 11 and 12 Children, Family and the Community as well as developing skills for babysitting, parenting or careers in education and child care. Please note: if students wish to vary or extend their projects they may be required to provide/pay for the extra materials.

## CLOTHING AND TEXTILE DESIGN

YEAR COST: \$160.00

Pre-requisites: Nil

This course offers students the opportunity to improve practical skills and become more confident in using the sewing machine. Students will use their creative skills and patterns to design their own textile items or clothing. The concept and awareness of sustainable and responsible use of resources is explored.

Whilst supporting the development of general life skills, this course will prepare students who are aspiring to pursue a career in fashion, clothing/textile manufacture, and dressmaking.

### Digital Technologies

## AUTOMATA ENGINEERING

YEAR COST: \$50.00

Pre-requisites: Nil

In this course students explore the world of digital engineering through computer assisted research, data analysis, design, drawing and manufacturing. Students will use industry software to design and develop practical and complex engineering solutions. Students develop their understanding of the digital engineering process through structural and sustainable design, collaborative problem-solving and creation of complex physical engineering solutions. They also use computer-controlled production processes, such as 3D printing and laser cutting to produce some of their work.

This course provides sound preparation for students who aspire to study related courses in Years 11 and 12 or to develop skills for Engineering and Design careers.

## ADVANCED DIGITAL DESIGN

YEAR COST: \$50.00

Pre-requisites: Nil

In this course students explore and develop their understanding of how data can be secured through cyber-security. They study the Digital declaration of Human Rights and design, manage and create a media plan using industry standard software to educate a selected audience. Students develop their coding skills by participating in Grid Iron Robotics, the development of a program to play football with robots.

They also learn to design and implement an interactive, functioning website using HTML/ CSS Javascript. Students do this using a range of industry standard software packages and by defining and de-constructing complex issues in terms of functional and non-functional requirements. Students also take into account the privacy and security requirements of their project.

This course provides sound preparation for students who aspire to study related courses in Years 11 and 12 or to develop skills for Computing or Multimedia careers.