



MELVILLE
SENIOR HIGH SCHOOL



YEAR 8
2024 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

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WELCOME

This booklet outlines the Curriculum courses available to students entering Year 8. The program that you select aims to give you a wide range of opportunities in the future with subjects that fit your needs and/or interests and in which you will ultimately specialise.

The middle school curriculum at Melville Senior High School follows the Australian Curriculum and Western Australia's Curriculum Framework. Please be aware that although course costs are listed, these charges may vary due to unforeseen changes in curriculum delivery.

All students in Year 8 study a set number of hours in each Learning Area. Each student will experience compulsory and elective courses across the learning areas, while some students will also study specialist courses.

Compulsory Courses

English	Studied for 4 hours per week
Maths	Studied for 4 hours per week
Science	Studied for 4 hours per week
Humanities and Social Sciences	Studied for 4 hours per week
Health and Physical Education	Studied for 2 - 4 hours per week

Elective Courses

- *The Arts*: Made up of Visual and Performing arts, including Dance, Drama, Music Appreciation, Visual Arts, Media Arts and Design
- *Technologies*: Made up of Design and Technologies and Digital Technologies. Courses include Materials Design, Materials Engineering, Fabulous Foods, Creative Textiles, Mechatronic Engineering and Digital Technology
- *Languages*: Made up of Italian or Chinese

Studied for 1-2 hours per week - students typically choose three per semester.

Specialist and Focus Courses

The areas in which a student can specialise after being accepted are:

- Gifted and Talented program (GAT) – Centrally selected
- Academic Extension Course – AEC (Humanities and/or Maths and Sciences)
- Netball (Health & Physical Education)
- Aviation
- Graphic Design Media
- Music in Focus program

These programs are described in further detail later in this handbook.

Their specialisation is recognised by a student studying the subject throughout the year. Selection into specialist programs is based on testing and/or interviews conducted during the first half of a calendar year. Placement in a specialist program is for four years, i.e. Years 7 to 10, subject to suitable performance levels.

GIFTED AND TALENTED

Selective Academic Program

Melville Senior High School is one of the fourteen public secondary metropolitan schools with 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 needs to complete foundational curriculum content. It 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 an extension in investigations, cross-curricular concepts, critical thinking and using the 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, outreach workshops/programs with universities, team-building camps, and state and national competitions. Our experienced Gifted and Talented teachers, coordinator, and other school staff help 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), taken in Year 6 through a central selection process. Testing for the program is also 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. Some students demonstrate exceptional ability in all four subjects and will be placed in all four MESH area, whilst other students may be talented in one area i.e. Humanities and will be in this component of the course for AEC only.

How Are Students Identified?

The identification program aims to include rather than exclude. Students are selected through a school-run process. Once at Melville SHS, 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, they are identified by past school grades and NAPLAN test results.

Ongoing inclusion in AEC requires high academic achievement and for students to have a strong level of commitment in terms of participation, attitude and achievement.

AVIATION

Approved Specialist Program

AVIATION

YEAR COST: \$158.00

Mechanics of Flight

This topic is designed to familiarise students with the components of an aircraft. It then deals with the concepts involved in achieving flight. Educational objectives covered:

- Parts of an aircraft and its functions
- How an aircraft flies
- Flight Simulator experience
- Airport navigation with Edison Robotics

Aviation in Society

Students investigate Aviation's influence on society in the past, present and future contexts. In addition, students will discover and appreciate the many roles and functions of aircraft since its invention. Educational objectives covered:

- Development of aircraft
- Aviation pioneers
- The jet revolution
- Roles and functions of the aircraft
- Unmanned aerial vehicles (UAVs)

Structure of the Aircraft

This topic involves studying how aircraft are constructed, following which students practice these techniques in building models. Educational objectives covered:

- Aircraft structures
- Stresses
- Controls
- Modelling
- Balsa wood aircraft design
- Flight Simulator experience

Aircraft and the Environment

The topic involves a study of the environment in which aircraft operate. This includes the aerodrome, the atmosphere and the communications and control network it is engaged in. Educational objectives covered;

- The aerodrome
- The atmosphere
- Air traffic control and communications

Entry to the Aviation Course is only available to students selected by the testing and/or interview with the Aviation Teacher in Charge process. Aviation in Years 7 and 8 is two hours per week and four hours in Years 9 and 10.

For more application information, see our website [HERE](#) or contact the Teacher in Charge.

GRAPHIC DESIGN MEDIA

Approved Specialist Program

GRAPHIC DESIGN MEDIA

YEAR COST: \$130.00

plus booklist items

Graphic Design Media students will cover various contexts from different areas of Design, Media and Visual Art.

Core Curriculum (Two 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 and typically provides term-based projects that develop different aspects of a student's skills and knowledge and develop their application of the design process. Projects may include animation, film production, 3D design, fashion and textile design, game design, print media production, and more.

Co-curriculum

At the heart of the program are the professional master-class workshops. These enable our students to work with industry and university professionals in 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, Graphic Design Media students are expected to spend time out of class practising skills and/or extending classwork. It is suggested that one hour for every hour of class time be set aside as a nominal weekly benchmark. This will include activities such as:

- Sketching and drawing from life
- Scrapbooking 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, Graphic Design Media recruits students state-wide. They are selected based on academic testing, creativity and portfolio interviews. Students may exhibit a wide range of projects in their portfolios. However, the emphasis is on students who can work independently and have demonstrated sustained commitment and technical quality.

*Please note that only a few students are selected to begin Graphic Design Media in Year 8, as the usual entry point is Year 7. Exceptional circumstances and transferees from other schools will be considered assuming that places are still available and waitlists are exhausted.

Support

The Graphic Design Media program is underpinned by a dynamic parent support group that contributes to the program's richness through direct assistance and fundraising activities.

NETBALL

Approved Specialist Program

NETBALL APPROVED SPECIALIST PROGRAM

YEAR COST: \$150.00

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

Melville SHS provides students with two hours per week all year round. Most sessions are on the court learning new skills and strategies and improving individual and team skills. There are opportunities to cooperate in a team environment through communication activities both on the court and in the classroom. The students are provided with opportunities to develop a deeper understanding of the game, explore the link between nutrition and performance and develop their 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, the pursuit of excellence, individual learning and problem-solving to meet the needs and interests of my child?

The program is developed with input from Netball WA. It 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 their positions and be provided opportunities for development in roles they may specialise in. 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. The course will have a practical component 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, eg local, state and national levels of recognition?

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 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) Sport Coaching Certificate – netball specific course (Year 11/12) Edith Cowan University Short Course – Introduction to sport science.

For more application information, see our website [HERE](#) or contact the Teacher in Charge.

MUSIC IN FOCUS

MUSIC IN FOCUS

YEAR COST: \$100.00

plus instrument hire (if applicable) and booklist items

Core Curriculum (Two hours per week in class)

The class curriculum covers topics such as aural skills, theory and composition, responding to and critiquing performances and in-class band performance from a range of styles and contexts and in-class band performance and rehearsal.

Co-curriculum

Instrumental Music School Services provide lessons free of charge at Melville SHS to students selected for the Music in Focus Program who are continuing lessons from Year 7. Lessons are available on Voice, Classical Guitar, Electric Guitar, Bass Guitar, Percussion, Brass, Saxophone, Clarinet and Flute.

Very few students are selected to begin IMSS instrumental lessons in Year 8. Students wishing to do so must meet with the Teacher in Charge of Music and get approval from IMSS. Exceptional circumstances and transferees from similar high/primary school programs may be allowed to audition, assuming that places are still available and waitlists are exhausted.

As a part of their classroom studies, students will continue their lessons with IMSS's instrumental teachers. This part of their 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 either Intermediate Concert Band or Classical Guitar Ensemble, which rehearses 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 various public performance opportunities.

After Hours

Music in Focus students are expected to spend time out of class practising skills and/or extending classwork. 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
- The set works study/other homework

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

- Classical Guitar Ensemble (Years 7-12)
- Swing Band (invitation only)
- Intermediate Concert Band (Years 7-10)
- 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 Program is underpinned by a dynamic parent support group that contributes to the program's richness through direct assistance, participation in extra-curricular activities and fundraising activities.

ARTS

In the Arts learning area, students develop creative skills, critical appreciation and knowledge of artistic techniques and technologies in dance, drama, media, music, visual arts and combinations of art forms. The Arts develop students' sense of personal and cultural identity and equip them for lifelong involvement in and appreciation of the Arts.

The Arts provide young people with authentic learning experiences that engage their minds, hearts, and bodies, providing learning experiences anchored in real and meaningful contexts. The Arts regularly engage multiple skills and abilities and, whether in Visual Arts or Performing Arts, nurture the development of cognitive, social, and personal competencies. The Arts curriculum is divided into two distinct but related areas:

- Performing Arts - In which students learn in Dance, Drama or Music contexts
- Visual Arts - In which students learn in Media Arts, Visual Arts or Design contexts

The table below reflects the multitude of Arts courses offered 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 8, students must undertake studies in at least one Performing Arts and one Visual Arts course per year. Students can select in Years 9 and 10 based on personal interests and aspirations.

Pathways

	Performing Arts				Select entry Year-long	Visual Arts				Select entry Year-long
Years 8 Semester Courses	Drama	Dance	Perf. Arts Prod.	Music App.	Music in Focus	Visual Art Explorations (E) Inspirations (I)		Media Arts	Design	Graphic Design Media
Year 9 Semester Courses	Drama	Dance	Perf. Arts Prod.	Music App.	Music in Focus	Visual Art E	Visual Art I	Media Arts	Design	Graphic Design Media
Year 10 Year-long Courses	Drama	Dance		Cert II Music	Music in Focus	Visual Art E	Visual Art I	Media Arts	Design	Graphic Design Media
Years 11/12 Courses of Study	Cert II Live Production Cert II Dance			Music - ATAR Cert III Music		Design ATAR Media Production & Analysis ATAR Visual Art ATAR Design (Graphics) General Media Production & Analysis General Visual Art General Cert. III in Screen & Media				

Performing Arts

DRAMA

SEMESTER COST \$20.00

This course allows students to explore basic skills, techniques and processes involved in various aspects of Drama. Students are introduced to narrative, voice, movement, performance and staging elements through practical exercises in a creative and safe environment. Students also explore scripts and device performance in the genres of Improvisation and role play that will be performed in class, at showcases, performing arts festivals or in other parts of the school's performance program.

DANCE

SEMESTER COST \$20.00

This course allows students to explore basic skills, techniques and processes involved in various aspects of Dance. Students are introduced to various elements of narrative, voice, movement, technique, choreography and progression through practical exercises in a creative and safe environment. Students also learn choreography from genres such as contemporary, jazz or hip hop that will be performed in class, at showcases, performing arts festivals or other parts of the school's performance program.

PERFORMING ARTS PRODUCTION

SEMESTER COST \$20.00

In this course, students will explore and learn about technical elements of live production, including sound, lighting, staging, production roles, and event management in the Performing Arts. This course introduces students to the creative industries and can lead to Certificate II & III Arts courses in senior school.

MUSIC APPRECIATION

SEMESTER COST \$20.00

This course continues to teach students musical concepts and techniques and improves students' general musicianship. They will participate in activities that develop their understanding of musical elements, style and genre, musical instruments and performance. Students are also introduced to practical skills and processes in performing, recording and producing music. They learn to compose and create music using a wide variety of available technologies as well as traditional musical instruments.



Visual Arts

VISUAL ART (EXPLORATIONS)

SEMESTER COST \$50.00

With a focus on Explorations, this course further develops students' knowledge of the elements and principles of Visual Art. Throughout the course, students demonstrate their understanding by responding to various art media including drawing, painting, ceramics and print media which extends their ability to use art language in their critical responses. Students then use this knowledge to complete several original studio works that explore specific art movements.

MEDIA ARTS

SEMESTER COST \$20.00

This course further develops student understanding of key Media Arts concepts and skills. Students view, analyse and respond to examples of different media works and, in doing so, learn the language and terminology of Media. In addition, students work independently and/or collaboratively to create their own media works, including audiovisual media work, static or print media work, interactive media work, or animated media work. They also develop their skills using current media production technologies and industry-standard software.

DESIGN

SEMESTER COST \$20.00

This course further develops students' understanding of the basic ideas, concepts and skills in the broad disciplines that are Graphics and Photography. Students view, de-construct and respond to different examples of the two disciplines and, in doing so, learn essential language and terminology. They also learn to communicate their ideas to an intended audience by creating work that may include business cards, magazines, logos and t-shirt design. Students do this using a variety of printmaking and photographic techniques to develop their skills in design, illustration, photography, and industry-standard software.

VISUAL ART (INSPIRATIONS)

SEMESTER COST \$50.00

With a focus on Inspirations, this course further develops students' knowledge of the elements and principles of Visual Art. Throughout the course, students demonstrate their understanding by responding to a variety of art media including drawing, painting, ceramics and print media which extends their ability to use art language in their critical responses. Students then use this knowledge to complete several, original studio works responding imaginatively to specific art inspirations.



ENGLISH

ENGLISH
ENGLISH - GIFTED AND TALENTED

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

Students will be completing the Year 8 Western Australian Curriculum course for English. The English curriculum is built around three interrelated strands that support students' growing understanding and use of English. These strands are:

- Language
- Literacy
- Literature

The three strands are not designed to be curriculum modules or sub-programs but rather should be seen as interwoven. They represent aspects of learning that together can be addressed in any activity or sequence of work. As part of their course work, students will study a range of text types. They will also be expected to demonstrate mastery of a range of writing genres as per the WA Curriculum.

A feature of the Year 8 course will be the preparation for NAPLAN testing conducted in the first semester of Year 9. These national tests in reading, writing, spelling and language conventions allow parents, students and teachers the opportunity to measure student progress against national benchmarks. Although they are only one aspect of monitoring student progress, it is important students are ready for the demands of NAPLAN.

Pathways

Year 9/10	English Mainstream	Academic Extension Course	Gifted & Talented	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

ENGLISH (ESL)

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 8 to 10 as required. Students new to the Australian context are encouraged to check their eligibility upon enrolment.

EAL/D teachers focus on improving students' Standard Australian English skills in preparation for NAPLAN testing. Grades achieved by students are based on each student's progress against the English as an Additional Language (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 English as an Additional Language (EAL/D).

HEALTH & PHYSICAL EDUCATION

Health and Physical Education Learning Area outcomes are linked to the progressive development of a healthy, active lifestyle for students. Students progress throughout their schooling to achieve higher levels of skills and knowledge about influences that enable the attainment of healthy, active lifestyles. Students also utilise time in the Health and Physical Education Learning Area to develop self-management skills based on informed decision-making. Central to the ongoing education of each student is the development of interpersonal skills for establishing and maintaining effective relationships in life.

Outcomes linked with the Health and Physical Education Learning Area are predominantly addressed through learning in such areas as Health Education, Physical Education, Outdoor Education and Sport and Dance.

Pathways

Year	Compulsory	Physical Education Selection				Specialist Program
8	Health Education	Physical Education		Advanced Athletics, Swimming & Sport		Netball
9	Health Education	Physical Education		Advanced Athletics, Swimming & Sport		Netball
10	Health Education	Physical Education	Recreation	Outdoor Education	Advanced Athletics, Swimming & Sport	Netball
1/12	Health Education ATAR and General	Physical Education ATAR and General		Outdoor Education General	Certificate II Sport Coaching	Certificate II Sport Coaching (Specialised Netball Pathway)

HEALTH EDUCATION

YEAR COST: \$16.00

This course focuses on knowledge, communication, decision making and assertiveness. Pressures to be sexually active and strategies to counter these influences are considered. Ambitions and goals are clarified. Issues related to alcohol, tobacco, and drugs (both legal and illegal) are comprehensively discussed. Lifestyle choices connected with conception, pregnancy and births and contraception are reviewed. Individual diet and exercise programs are monitored, and personal fitness levels are measured.

PHYSICAL EDUCATION

YEAR COST: \$21.00

Linked with the Health Education component will be physical activity electives that will allow students to develop outcomes in swimming, lifesaving, hockey, touch, football, athletics, netball, badminton and cricket. These sports will engage students in skill development and involve them in cooperative and strategic games. Team groupings should allow students to demonstrate the full potential of their

skills and to practise and acquire higher levels of movement skills and strategies.

ADVANCED ATHLETICS, SWIMMING & SPORT

YEAR COST: \$50.00

Students may elect to participate in this class instead of the mainstream Physical Education class. This elective is aimed at students who primarily have a strong interest in athletics and swimming and who aim to become members of our coveted MSHS A Division Inter-school Athletics team and Inter-school Swimming team. This class will focus on improving student ability in athletics and swimming to promote strong individual (and team) performance in both House and Inter-school Carnivals.

Some of the fun and engaging components of this unit include:

- Event-specific training in Athletics & Swimming
- Mini-triathlon & mini biathlon
- Personal fitness programming & conditioning
- Selected sports from the Year 8 PE program
- Aquatic aerobics & fun pool-based activities
- Run, swim, board paddle activities (using the school pool)
- Cycling & group fitness (such as circuits) and fitness classes (such as yoga)

Students who select this class will still be provided with an opportunity to engage in some of the sports covered in the mainstream PE program to improve fitness, physical skills and teamwork skills.

(Note: If an insufficient number of students select this subject, students will participate in the normal Year 8 mainstream PE program instead).



HUMANITIES & SOCIAL SCIENCES

HUMANITIES AND SOCIAL SCIENCES

YEAR COST: \$25.00

In Year 8, Humanities and Social Sciences (HASS) students undertake several Western Australian curriculum subjects. Humanities and Social Sciences will teach your child the transferable skills necessary to navigate changing circumstances in contemporary society.

In Geography, students will investigate the landscapes and landforms, including the geographical processes, that have formed majestic mountains like the Himalayas and Andes mountain ranges. Students then study how tsunamis are formed, focusing on the nature, causes, impacts and measures taken to minimise the effects of tsunamis on people, property, infrastructure and the environment. Students conduct an inquiry investigation into the Indian Ocean Tsunami. Students then study the causes and consequences of urbanisation and understand why 56% of the global population lives in cities, and 86% of Australia's population lives in cities.

In History, students explore the key features of the medieval world, including; feudalism, religion, knights, castles, weaponry, and the different social classes' roles and responsibilities. Students then venture into the murky depths of the first pandemic humankind has battled; the Black Death. This in-depth study investigates the Black Death's causes, symptoms, cures, and impact in Asia, Europe, and Africa. Students develop skills like examining primary and secondary sources from various perspectives to analyse how these sources can help people learn about specific historical periods.

Students also study Civics and Citizenship to understand Australia's freedoms that allow people to make informed decisions, such as freedom of speech, movement and assembly. Students also examine what it means to be an Australian citizen, multiculturalism's emergence, and our values.

In Economics and Business, students learn about the Circular Flow of Income and how students contribute to this flow as consumers. Students investigate the impact of Economics on their lives. Students will examine different types of business structures and marketplaces that people use to run businesses that fulfil people's needs and wants. Consequently, students will understand how markets determine prices and allocate resources.

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 8, students will have the opportunity to be involved in some exciting excursions that allow students 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	Psychology ATAR	Career & Enterprise General	Certificate II in Work Skills General	Psychology General

LANGUAGES

Learning a language is not a destination but a journey.

The Languages are compulsory year-length courses - continue from Year 7. Students continue with the language they studied in the previous year to maximise competency and learning opportunities. New students can choose between Italian and Chinese.

The rise and interest in languages and the need for languages in a global context, has seen the need for the Western Australian Curriculum to mandate Languages as compulsory in Years 7 and 8. Today, knowing a language sets you apart from everyone else and gives you that edge in employment opportunities travel experiences and general communication. Languages empower!

Learning a language is the best way to learn about cultures and societies and to help us see the world from another perspective. It also makes us go back to language basics, helping to strengthen our understanding and literacy skills in our first language and making us more adaptable to our social and working environments.

Languages also make us think about how we learn and memorise facts and information, which we can apply to any other learning area. Learning a language provides excellent opportunities for those intending to pursue a career in the defence forces, hospitality, tourism, education and government agencies, among other sectors.

Pathways

	Italian Language	Chinese Language
Years 8 to 10	Italian	Chinese
Years 11/12	Italian Second Language ATAR Italian Second Language General	Chinese Second Language ATAR Chinese Background Language ATAR Chinese First Language ATAR

* Compulsory year length courses - continue from Year 7

ITALIAN

YEAR COST: \$20.00

Year 8 Italian builds on the skills, knowledge and understanding required of students to communicate in Italian developed in Year 7 and focuses on extending their oral and written communication skills and their understanding of the Italian language and culture.

The focus in Year 8 is 'Il mio mondo' (My world). Students communicate in Italian to exchange information, discuss aspects of home, school and social life, and compare routines, interests and leisure activities. They engage in individual and collaborative tasks that involve making arrangements or organising events or outings. Students become familiar with Italian pronunciation and sound system, noting similarities and differences with English. They build a vocabulary relating to people and objects in their immediate worlds. They learn how to use definite and indefinite articles and form singular and plural nouns, recognise patterns of noun categories and understand the general rules of agreement. Students learn simple sentence construction (subject-verb-object) enriched by adjectives. They gradually build more extended texts using cohesive devices.

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

Year 8 Chinese builds on the skills, knowledge and understanding required of students to communicate in Chinese developed in Year 7. It focuses on extending their oral and written communication skills and Chinese language and cultural knowledge.

The focus in Year 8 is My World. Students communicate in Chinese to exchange information and discuss the aspect of the home, school and social life and compare routines, interests and leisure activities. They engage in individual and collaborative tasks that involve making arrangements or organising events or outings.

Students become familiar with the system of the Chinese language when it is encountered in simple spoken and written texts. They use Pinyin as a resource to record the sound of phrases or sentences to support learning. Students compare and reflect on how cultural contexts influence Chinese use in texts when engaging with Chinese speakers.

Students will have opportunities to participate in meaningful and intercultural experiences by cooking traditional Chinese food, incursion and excursions, and being immersed in cultural and experiential learning activities.



MATHEMATICS

MATHEMATICS
MATHEMATICS - GIFTED AND TALENTED

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

- Understanding includes describing patterns involving indices and recurring decimals, identifying commonalities between operations with algebra and arithmetic, connecting rules for linear relations with their graphs, explaining the purpose of statistical measures and explaining measurements of perimeter and area
- Fluency includes calculating accurately with simple decimals, indices and integers; recognising the equivalence of common decimals and fractions, including recurring decimals; factorising and simplifying basic algebraic expressions and evaluating perimeters and areas of common shapes and volumes of three-dimensional objects
- Problem-solving includes formulating and modelling practical situations involving ratios, profit and loss, areas and perimeters of common shapes and using two-way tables and Venn diagrams to calculate probabilities
- Reasoning includes justifying the result of a calculation or estimation as 'reasonable', deriving probability from its complement, using congruence to deduce properties of triangles, finding estimates of means and proportions of populations.

Semester 1 and 2 Pathways

Students are initially assigned to classes based on one of three pathways on Year 7 results and teacher recommendations:

- Pathway 1 – Gifted and Talented, AEC and other classes. Coursework studied to greater depth and breadth with additional enrichment activities
- Pathway 2 – Coursework completed at a steady pace for greater understanding
- Pathway 3 – Coursework based on the syllabus with emphasis on practical learning at a pace suited to abilities.

Assessment

Students receive a Learning Area grade (A, B, C, D or E) and also an assigned Pathway grade (A, B, C, D or E). Learning Area grades are based on comparisons with the entire Year 8 cohort, whereas Pathway grades are determined by student progress within their path of study.

Please note that as students complete work to a different level and at different rates, but all based on the Year 8 curriculum, grades are allocated as follows:

- Pathway 1 – students able to receive Learning Area grade (A – E) and a Pathway grade (A – E)
- Pathway 2 – students able to receive Learning Area grade (B – E) and a Pathway grade (A – E)
- Pathway 3 – students able to receive Learning Area grade (C – E) and a Pathway grade (A – E)

Examples – (i) A student in Pathway 2 may receive a Learning Area Grade 'C' and a Pathway Grade 'B'. (ii) A student in Pathway 1 may receive a Learning Area Grade of 'A' but a Pathway grade of 'C' if they are completing the Pathway 1 course at a satisfactory level compared with other students in this pathway.

Years 8 to10	Mathematics			
Years 11/12	Mathematics Applications	Mathematics Methods	Mathematics Specialist	Mathematics Essential General

See Mathematics Booklet on our Website [HERE](#) for more information.

SCIENCE

SCIENCE

YEAR COST: \$34.00

In Year 8 all students study Science for four hours per week. They cover all four major branches of Science, including Physics, Chemistry, Biology and Earth Sciences, as well as science laboratory and investigative skills.

In Year 8 students will cover the following outcomes:

- 10 weeks Chemistry
- 14 weeks Biology
- 5 weeks Physics
- 6 weeks Earth Sciences
- 5 weeks Science Inquiry Skills

Science Inquiry is taught in context throughout the year.

Pathways

Years 8 to 10	Science				
Years 11/12	Physics ATAR	Chemistry ATAR	Biology ATAR	Human Biology ATAR	General Human Biology



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 - In which students learn in the contexts of Materials Design, Materials Engineering, Food & Nutrition and Textiles.
- Digital Technologies - In which students learn in the contexts of Digital Engineering and Digital Technologies.

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 8 students are required to undertake studies in at least one Design & Technologies and one Digital Technologies course each year. In Years 9 and 10, students can select based on personal interests and aspirations.

Pathways

Contexts	Design and Technologies			Digital Technologies		Specialist Program
Year 8 Semester Courses	Materials Design Materials Engineering	Fabulous Foods	Creative Textiles	Digital Engineering Prototyping	Digital Technologies	Aviation
Year 9 Semester Courses	Materials Design Materials Engineering	Food for Health	Fashion and Textile Design	Engineering with CAD Fundamentals	Creative Digital Design	Aviation
Year10 Year-long Courses	Materials Design Materials Engineering	Food Technology	Clothing and Textile Design Childcare Essentials	Engineering with CAD Applications	Advanced Digital Design	Aviation
Years11/12	Materials Design & Tech – Wood General Materials Design & Tech – Wood General Building & Construction General Certificate II in Engineering	Food Science & Technology General	Children, Family & the Community General	Certificate II Engineering	Applied Information Technology ATAR Applied Information Technology General	Aviation General

Design & Technologies

MATERIALS DESIGN

SEMESTER COST \$60.00

In Materials Design, students develop their ability to work with materials including; timbers, plastics, metals and manufactured boards. Students will design and make a range of projects using hand and power tools and machinery as well as using computer-aided design and machining to complement their design. They will apply the technology process by researching and developing solutions to design problems.

MATERIALS ENGINEERING

SEMESTER COST \$60.00

In Materials Engineering, students develop their ability to work with materials including; timbers, plastics and metals. Students will research material properties, investigate and then test how they interact through various planned activities. Students will make various projects and devices using hand and power tools and use computer-aided machining as a manufacturing method.

FABULOUS FOODS

SEMESTER COST \$60.00

Fabulous Foods allows students to develop their knowledge and skills to prepare delicious and nutritious meals. Students get to enjoy new taste experiences with an emphasis on the sensory and physical properties of food. Students experiment with flavours and showcase their food preparation skills. This course also teaches students about the nutritional value of food, healthy eating, food sustainability, recipe development and the role of technology in food.

CREATIVE TEXTILES

SEMESTER COST \$60.00

In this course, students develop their knowledge and processes to design and construct textile and craft items. It allows students to design and produce items that are practical, wearable and sustainable. Students are encouraged to demonstrate their practical skills and express creativity in all their textile projects.

Please note if students wish to vary or extend their projects, they may need to provide/pay for the extra materials.



Digital Technologies

DIGITAL ENGINEERING PROTOTYPING

SEMESTER COST \$15.00

Students will explore the world of digital engineering through computer-assisted research, data analysis, design, drawing and manufacturing.

Students will use software that is of industry standard to design and develop practical engineering solutions. Students will also develop their understanding of the digital engineering process through structural and sustainable design, collaborative problem-solving and the creation of physical engineering solutions.

DIGITAL TECHNOLOGIES

SEMESTER COST \$15.00

In this course, students will develop a basic understanding of network performance and ways to connect wirelessly or by wired connections. They also examine the ways all computer data including text, images and sound are represented by binary.

Students explore the way computer programming uses a collection of smaller programs known as functions to solve problems with computers and binary and explore robotics and embedded systems using a collection of programs and functions to solve problems.

Students will also design user experiences and algorithms by testing, modifying and implementing digital solutions. Students will also learn to use appropriate protocols when communicating and collaborating online.

