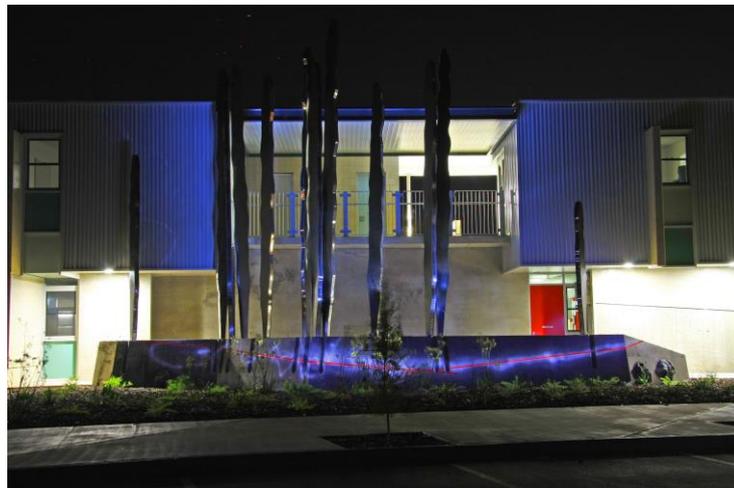


Dalyellup  
COLLEGE



dream • believe • achieve

An Independent Public School



**2017**  
*Year 10*  
*Elective Selection*  
*Handbook*

**Dalyellup College  
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Ms Eloise Kyneur**

**Business Manager: Mrs Vivienne Laws**

**NOTE: Course charges as listed are a guide only for 2017.** Inflation, changing costs and curriculum changes may change estimated course charges for 2017. Final charges will be contained in the **2017 Charges and Voluntary Contributions Booklet** which will be distributed by December 1<sup>st</sup> 2016.

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### ELECTIVE DESCRIPTIONS

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## Introduction

The Western Australian Curriculum and Assessment Outline sets out the knowledge, understandings, skills, values and attitudes that students are expected to acquire and guidelines for the assessment of student achievement.

The Curriculum is taught within eight Learning Areas. These Learning Areas are:

- Arts
- English
- Health and Physical Education
- Humanities and Social Sciences
- Languages
- Mathematics
- Science
- Technologies

In 2017, all Year 10 students will continue to study courses in English, Mathematics, Science, Humanities and Social Science and Health and Physical Education. In order to best meet the needs of students in preparation for education and training beyond Year 10, these classes will be organised according to student ability.

Students will also have the opportunity to select three electives in each semester.

As an independent public government secondary school, we offer electives to students, to allow them a range of choice in what they study and to enable students to choose courses from specific learning areas that will be most applicable to their future employment, training and the selection of courses in Year 11 and 12.

As they progress towards Year 11 and 12, it is important to consider what electives will give your son or daughter the best understanding of what particular subjects or courses are all about. As such we would recommend that any student that wishes to pursue a particular pathway should choose electives in Year 10 that give an insight into that area of study in Year 11 and 12.

### **Year 10 elective selections for 2017 are due on Friday 9 September 2016.**

In 2017 Dalyellup College will continue to implement the STEMS program for high achieving students in English, mathematics, science, and humanities and social sciences. This is an aspirational program designed to further the knowledge, skills and understanding of students who demonstrate the potential to become leaders in the school and advance through to academic study in Years 11 and 12. The aim of this program is to enhance participating students' learning capacity and their ability to improve their overall performance and success with their academic achievement.

The STEMS program is a four year course that builds in complexity as a student progresses through Years 7 to 10. It is designed to enhance and extend selected students across all areas of the curriculum.

Jeff Macnish  
Principal

# STEM What is it?



## Overview

STEMS is an acronym for **S**cience, **T**echnology, **E**ngineering, **M**athematics and **S**ociety. The Dalyellup College STEMS program extends and enhances student understanding of the skills needed in the 21<sup>st</sup> century. Through a balance of intellectual and practical tasks, students will acquire and develop the generic and transferable skills that have been identified as essential for success in a changing world.

Using an investigative approach, students examine current issues and problems faced by societies in order to develop their own problem-solving skills that use the knowledge and principles of Science, Technology, Engineering and Mathematics.

The application of these fields is informed and managed through the knowledge and principles of the Humanities and Social Sciences.

The STEMS program actively engages students in finding solutions to real-world social problems through a multi-disciplinary approach.

The world of the future depends upon the youth of today!

### **So...could you design and build:**

- A shelter for the homeless in disaster areas?
- A solar powered distillation system to purify water?
- A wind turbine to provide low cost power?

### **Or, could you find a way to:**

- Recreate natural bush land as a way of making a sustainable food source?
- Design a way to allow people to communicate and share ideas?
- Investigate the use of recycled materials in construction projects?

### **How about investigating:**

- Work with a multinational company to solve a real life problem?
- Design and build devices to make people's lives easier?
- Build and program robots that are able to perform a rescue in challenging conditions?

These are just some of the projects that students worked on in STEMS throughout 2016.

### **So how do you get into STEMS?**

Get your grades up in English, Mathematics, Science, HASS and Technology. You will need a minimum of two 'A' grades and two 'B' grades.

Students will be invited to enter the program based on their previous reports from either semester.

**Approximate course charge: \$37.00**

## Course Direction Table

| Learning Area                     | Year 10 Courses   | Will lead to the following<br>Year 11 & 12 courses.    |
|-----------------------------------|---|--|
| English                           | English   | Foundation English                                     |
|                                   |   | General English  |
|                                   |   | ATAR English   |
| Mathematics                       | Mathematics   | Foundation Mathematics                                 |
|                                   |   | General Mathematics: Essential                         |
|                                   |   | ATAR Mathematics Applications                          |
|                                   |   | ATAR Mathematical Methods                              |
|                                   |   | ATAR Mathematics Specialist                            |
| Science                           | Science<br>Applied Science:<br>Microbiology<br>Applied Science:<br>Biotechnology  | ATAR Human Biological Science                          |
|                                   |   | ATAR Physics   |
|                                   |   | ATAR Chemistry   |
|                                   |   | ATAR Psychology  |
|                                   |   | General Integrated Science                             |
| Humanities and<br>Social Sciences | Society & Environment   | General Business Management and Enterprise             |
|                                   |   | General Career & Enterprise                            |
|                                   |   | ATAR Modern History                                    |
|                                   |   | ATAR Geography   |
| Languages                         | Chinese   | ATAR Chinese Second Language                           |
| Health &<br>Physical<br>Education | Outdoor Education<br>Specialist Cricket<br>Physical Education<br>Physical Education-Elite<br>Performance<br>Weights and Fitness<br>Recreation<br>Basketball   | Physical Education Studies                             |
|                                   |   | General Health Studies                                 |
|                                   |   | General Outdoor Education                              |
|                                   |   | Certificate II Sport and Recreation—Cricket            |
|                                   |   | Certificate II Sport and Recreation                    |
| The Arts                          | Drama Extension<br>Music –Acoustic Musing<br>Music- Tech Electrics<br>Visual Arts<br>Arts and Craft<br>Media Craft<br>Media Studies<br>Dance  | General Drama, ATAR Drama                              |
|                                   |   | Certificate II in Music Industries                     |
|                                   |   | General Visual Arts, ATAR Visual Arts                  |
|                                   |   | ATAR Media Production and Analysis                     |
|                                   |   | Certificate II Creative Industries—Media               |
|                                   |   | General Dance  |
| Technologies                      | Business Environment<br>In a Graphic and<br>Technological Environment<br>Digital Photography<br>Woodwork<br>Metalwork<br>CAD<br>Café Cuisine<br>Food and Celebrations<br>Fashion and Textiles<br>Child Development<br>Automotive Basics for Girls | General Automotive Engineering and Technology          |
|                                   |   | General Applied Information and Technology             |
|                                   |   | General Design Graphics, ATAR Design Graphics          |
|                                   |   | General Design Technical Graphics                      |
|                                   |   | General Food, Science Technology                       |
|                                   |   | General Materials, Design and Technology-Wood          |
|                                   |   | General Materials, Design and Technology- Textiles     |
|                                   |   | Certificate II Business                                |
|                                   |   | Certificate II Community Services                      |
|                                   |   | Certificate II Engineering                             |
|                                   |   | Certificate II Building and Construction               |
|                                   |   | Certificate II Information, Digital Media & Technology |

## Year 10 Electives

### Process

**All students are required to participate in Physical Education.** This can be one of the following: Physical Education, Elite Performance Physical Education or the Specialist Cricket Program.

- **Students choose three electives in each semester** (Cricket students will only choose two electives). Students nominate on the Elective Selection Form their first and second elective preference for each gridline.
- **Course charges are per semester except where electives operate for a full year.**
- **Sign the form and return it to the main office** – Course selection forms are due to the administration office by **Friday 9 September 2016.**

Please read the elective selection sheet carefully as some electives run for a whole year. Some can be chosen in Semester 1 and Semester 2 and some can only be taken for one semester.

Students may change options during the first two weeks of each semester. Parents will be advised of the procedure. Parent consent will be gained and statements to reflect the change in course charges will be issued. Where necessary, refunds can be arranged if the new course costs are less than the previous choice.

Not all courses listed on the selection sheet may run. Only courses with sufficient student interest will be offered in 2017.

### NOTE:

Parents and guardians should take note that charges for these options are compulsory and are required to be paid in full by **Friday 3 March 2017.**

There are a number of nil cost courses available.

Course charges noted are a guide only for 2017. Inflation, changing costs and curriculum changes may change actual course charges for 2017. Final charges will be contained in the 2017 Charges and Voluntary Contributions Booklet which will be distributed by 1 December 2016.

# 2017 YEAR 10 COURSE DESCRIPTIONS

## LANGUAGES

Chinese - Year Long Course

10CHIN1 10CHIN2

The Year 10 Chinese language program is designed to further develop the student's skills (listening, responding and speaking) in order to communicate effectively in the language. Students will be enrolled in a vocational Certificate II Applied Linguistics Mandarin which will count towards the Western Australian Certificate of Education (WACE) at the completion of Year 12. Students will view and read a variety of texts and respond appropriately. They will also be able to write texts independently in Chinese. Students will further develop cultural understandings, recognise pattern and rules when using Chinese and rehearse purposeful language for use in real life situations.

Students will have access to online resources and work in cooperative learning situations. Students will study a range of topics within this course.

These include:

- The Chinese culture
- Ordering food and drinks in a restaurant setting
- Discuss food preferences
- Express opinions, interests and hobbies
- Leisure time
- Health and fitness
- Describe clothing, personality and family
- School subjects and jobs

Students will also have the opportunity to communicate with students in China through our sister schools program.

**Approximate course charge: \$29.00**



## THE ARTS

### Drama Extension - Year Long or Semester Course

10XDRA1 10XDRA2

The Arts learning area encourages the development of culture and self through the creative exploration of ideas, skills and processes that lead to an increased understanding of art works. Drama forms an integral part of the cultural, social and economic life of Australia. It is a significant means of defining Australian culture.

At Dalyellup College, Drama Extension experiences provide students with a well-developed understanding of the historical origins of theatre and performance. Students are exposed to script interpretation, play building and performance skills. Students are taught the elements of Drama with a focus on improvisation and devising original performance works.

As part of this course, students will have the opportunity to perform to live audiences (including taking part in the annual Youth on Health Festival) and students will also have the opportunity to attend live theatre performances to provide insights into the role of the Arts in Society.

In preparation for Year 11 and Year 12 Drama, this course aims to expand students' calibre of skills and ideas through text and history studies. They will produce, plan and reflect upon their art works through extended writing and gain experience in executing a role in the production team.

This course is recommended to those students who wish to pursue Drama courses in Senior School. It is recommended that students intending to select Drama at an ATAR level, consider studying this elective in both Semester 1 and 2.

**Approximate course charge: \$50.00**

### Dance - Semester 1 &/or Semester 2

10DANC1 &/or 10DANC2

Students in the Dance program will be involved in a variety of performances at a school level and professional level. Students will have the opportunity to showcase their work within the school and community.

Students in Year 10 participate in dance classes specifically designed to challenge and develop movement techniques. Students will learn techniques in jazz, ballet, contemporary, lyrical, funk, hip hop and cultural dance and will develop choreography skills through creative dancing. They will also learn about the production side of dance and will have experience in critiquing dance work. Through visiting choreographers and participating in weekly dance classes, students will learn to develop creativity, technique, movement, vocabulary, rhythm, coordination and an understanding of arts criticism. There are many employment opportunities for students in the dance field.

This elective is recommended to those students who wish to pursue the Dance course in Senior School.

**Approximate course charge: \$35.00**

**Music - Semester 1: Acoustic Musings****10MUS1**

Students in music will be encouraged to create, devise, express and understand music that is relevant to them. They will build towards performance in a public forum such as school assemblies, concerts, and exemplary work will have the opportunity to be involved in Triple J's Unearthed High.

Throughout this unit the students will be exposed to a variety of music styles (examples of genres include: Hip-hop, Techno, Electronic, Rock, Indie and other popular genres) with a particular focus on the acoustic recording of songs. This course will allow the students to dabble with musical interests in develop their skills to eventually present to an audience.

Students will take ownership of their learning by selecting genres of their interest. They will learn about music, its place in society and with a focus on acoustic instrumentation, will gain a well-developed musical understanding by composing/arranging, performing, listening and responding to music within their chosen genres.

Students of all stages of musical understanding are welcome and all will be encouraged to further their understanding in all areas of music.

This elective is recommended to those students who wish to pursue Music courses and/or a Certificate II Creative Arts: Music in senior school.

**Approximate course charge: \$20.00**

**Music - Semester 2: Tech Electrics****10MUS2**

Students in music will be encouraged to create, devise, express and understand music that is relevant to them. They will build towards performance in a public forum such as school assemblies, concerts, and exemplary work will have the opportunity to be involved in Triple J's Unearthed High and the on-site radio station.

This unit's focus is on **music technology**. Students will develop their understanding of how music is created using electronic software (such as the program, Garage Band and others). Throughout this course students will develop skills in composing/arranging, performing, listening and responding to music within the chosen genres (with a focus on digital music), as well as developing an understanding of recording/performance mixing and production.

Students of all stages of musical understanding are welcome and all will be encouraged to further their understanding in all areas of music.

This elective is recommended to those students who wish to pursue Music courses and/a Certificate II Creative Arts: Music in senior school.

**Approximate course charge: \$20.00**

**Extension Music – Year Long Course****10XMUS1 10XMUS2**

**Compulsory for students studying an instrument with a SIM teacher.**

Students will be enrolled in a vocational Certificate II in Music Industry which will count towards the Western Australian Certificate of Education (WACE) at the completion of Year 12. Students in music extension will be encouraged to create, devise, express and understand music within different musical genres. Experiences in class will provide students with a well-developed understanding of historical developments in music. Essential musical elements, evaluation techniques, responses and creation of musical ideas will be taught and encouraged in each student. This, along with instrumental study, will allow students to develop the knowledge to become a well-rounded musician.

As part of this course, students will have many opportunities to perform within the concert band platform and other small group ensembles, to live audiences (including taking part in Queen's Cup) and students will also have the opportunity to attend live performances to provide insights into the role of Arts in Society.

This course is recommended to those students who wish to pursue Music courses or Certificate II Creative Arts: Music in senior school.

**Approximate course charge: \$40.00**

The opportunity to further explore and develop skills in the art disciplines will be tackled in these courses. Students will use their knowledge and skills in the areas of painting, printmaking, sculpture and ceramics to create art works based on their own research and develop artworks in their chosen areas. All students will be encouraged to exhibit their work at public exhibitions and participate in activities both within school and the community. A part of the course will involve a day excursion for all art students..

### **Experiencing the Arts - Semester 1**

This course looks at investigating art techniques and skills and their application to 2D studies in printmaking, painting, collage, ceramics and drawing. Students will use their knowledge and skills to create art works based on their own research in chosen areas. All students are expected to keep a portfolio of work that demonstrates their skills and their understanding of art concepts to create their artworks.

**Approximate course charge: \$35.00**

### **Expressing the Arts - Semester 2**

Students will explore in depth the concepts of 2D and 3D art and explore a variety of mediums that can be used. They will be involved in group and individual art projects with relevance to public art making. All students are expected to keep a portfolio of work that demonstrates their skills and their understanding of art concepts to create their artworks.

This course is recommended to those students who wish to pursue Visual Arts courses in senior school. It is recommended that students intending to select Visual Arts at an ATAR level, consider studying this elective in both Semester 1 and 2.

**Approximate course charge: \$35.00**

Are you a creative, innovative free thinking artist who loves playing with different mediums? Here is your chance to develop your ideas and skills in the areas that interest you. Students will be able to create individual works in a number of different mediums including clay, Paper Mache, mosaics and textiles. You will be able to work in groups to make projects based on public arts and drama, including designing sets and props, from walls to jewellery. Come and explore your artistic side in a relaxing, creative environment where your inspirations and fantasies can come alive!

This elective is recommended to those students who wish to pursue Visual Arts courses in senior school.

**Approximate course charge: \$35.00**

Media Studies asks you to direct and dissect, create and criticise media. You will analyse the published work of others and play a creative role producing your own work. Students take the key activities of creating, producing and analysing media into greater detail, through tasks that are broad ranging and designed for public consumption on the school-affiliated radio station and online profile.

Students selecting this elective will also be involved in working on the Dalyellup College Yearbook. You will be part of a team that will document and archive special school events, incursions and excursions, performances and other events over the course of the year and shape images and footage into an official school publication for staff and students. This unit is designed for students with a high level of achievement in related Media and IT units and will hone your writing, develop your photography, sharpen your wits and focus your interpersonal skills. After that you will be left with your own contribution to our history: a lasting record of your time and efforts at this place for this year.

You will work in a team that will collate and collect; record and edit all the events at the school over 12 months. The ability to write and to take photographs; use word-processing and photo-editing software, to work with others and to be thoroughly reliable under pressure of deadlines; all these skills and qualities will be called on and developed in this course.

The unit will focus on:

- ❖ Cinematography techniques
- ❖ Audio editing and sound design
- ❖ Yearbook production
- ❖ Advanced visual editing techniques
- ❖ Podcasting & Radio Journalism

This course is recommended to those students who wish to pursue the Media Production and Analysis course and/or a Certificate II in Creative Industries (Media) in senior school. It is recommended that students intending to select Media Production and Analysis at an ATAR level consider studying this elective in both Semester 1 and 2.

**Approximate course charge: Nil**

Media Craft is a Media production unit with a practical focus. Students will apply and refine techniques of cinematography, film editing, sound design and audio editing in order to produce work that tells a story and connects with an audience. Students generate ideas, conduct research, script and plan production, select appropriate techniques to create media works that communicate ideas and emotions. Students utilise a specialised range of industry-standard technologies to produce their work. They reflect upon, evaluate, modify and present their media works to an audience and evaluate meanings created in their own media works and those of others.

This unit will focus on:

- ❖ Cinematography techniques
- ❖ Audio editing and sound design
- ❖ Television and Internet Advertising
- ❖ Advanced visual editing techniques
- ❖ Podcasting & Radio Journalism

This elective recommended suited for students who wish to pursue a Certificate II in Creative Industries (Media) in senior school.

**Approximate course charge: Nil**

## TECHNOLOGIES

### HOME ECONOMICS

#### **Fashion and Textiles - Semester 1 or 2**

**10F&T1 10F&T2**

This course focuses on the development of practical skills in fashion design along with the ability to construct garments and articles for the home. Students will develop an understanding of textiles and how they can be used for different purposes.

Students will be introduced to the course by learning how to sew a variety of embellishment techniques to decorate fabrics and then using these techniques to create an article. They will use a commercial pattern to create a garment of clothing for themselves and then learn how to appreciate pre-loved clothing and transform them into new garments using their creativity skills and ability. Students also have the opportunity to develop knowledge about hand embroidery and how to use it to decorate garments and fabric.

This elective is recommended to those students who wish to pursue the Materials Design and Technology –Textiles course in Senior School.

**Approximate course charge: \$30.00**

#### **Child Development - Semester 1 or 2**

**10CD11 10CD2**

This course follows the journey from conception through pregnancy, birth, infancy and on to pre-school age children. Students learn about pregnancy in detail; how it would impact on a teenager's life, preparing for parenthood, conception, physical changes which take place, the different stages of pregnancy and development of the foetus and then the birth process. Students learn the importance of maternal and paternal health before and during pregnancy. The course also investigates the need for family planning and the use of contraceptives.

Through the "Realityworks" Program students have the opportunity to experience the effects of pregnancy by wearing a "Pregnancy Profile Vest". The course continues to focus on the stages and milestones of infancy and then the growth and development of children. Students also experience caring for a baby for a short period of time using the "Realityworks Baby".

A variety of practical work is also included in the course with students making a pampering pack for a pregnant lady, a variety of articles for a new baby and young children. Guest speakers are used to enrich lessons and they deliver relevant information about children and their health and care.

This elective is recommended to those students who wish to pursue a Certificate II in Community Services in Senior School.

**Approximate course charge: \$30.00**

**Café Cuisine - Semester 1 or 2****10CAFE1 10CAFE2**

The café cuisine course offers students an opportunity to create café style food suitable for teenagers. Food preparation and presentation skills are developed, with current food trends and food products on the menu.

Students will:

- Create and produce food suitable for a café menu
- Develop skills in mise en place
- Develop skills in menu planning and budgeting
- Investigate the café market
- Examine trends with current food issues that affect our lifestyle
- Examine food allergies and special dietary requirements
- Produce food for their own café

This elective is recommended to those students who wish to pursue the Food Science and Technology course in Senior School.

**Approximate course charge: \$70.00**

**Food and Celebrations - Semester 1 or Semester 2****10FOOD1 10FOOD2**

All societies use food in their celebrations to convey both specific and general meanings. Looking at food from a traditional perspective this unit examines the evolution of the symbolic role of food on an international basis.

Students will:

- Create and produce food recipes from different countries.
- Be exposed to a wide variety of celebrations and their significance in today's society.
- Look at the impact of international foods on the Australian food scene.
- Examine trends with current food issues that affect our lifestyle.

This elective is recommended to those students who wish to pursue the Food Science and Technology course in Senior School.

**Approximate course charge: \$55.00**

**INFORMATION TECHNOLOGY****In a Business Environment - Semester 1****10IT1**

This course is intended for students who wish to develop their skills in Information Technology and Computing in a business environment. The course provides opportunities for developing core skills and knowledge in using common programs such as Word, Excel, PowerPoint, and Publisher with a view to their uses in the business world.

This elective is recommended to those students who wish to pursue a Certificate II Business in Senior School.

**Approximate course charge: \$20.00**

## Computing in a Multimedia context – Semester 2

10IT2

This course is intended for students who wish to develop their skills in Information Technology and Computing in a digital design and graphics environment. The course provides opportunities for developing core skills and knowledge in using common program. In addition students will analyse gaming and website design as well as creating their own game or website. They will also be given the opportunity to assemble and disassemble computer hardware and troubleshooting common computing problems. Basic computer programming will also be covered.

This elective is recommended to those students who wish to pursue the Applied Information Technology course or Certificate II Information Digital Media Technology in Senior School.

**Approximate course charge: \$20.00**

## DIGITAL PHOTOGRAPHY

### Digital Photographic Skills, Tools and Processes of Production - Semester 1 or 2 10PHT1 10PHT2

Participants in this course develop skills and understandings in the area of digital photography. Students will focus on producing excellent photographic images using creative photographic techniques, digital SLR cameras and state of the art editing software.

Students will cover:

- Photographic techniques.
- The use of digital cameras and camera settings
- Image manipulation using industry standard software
- Depth of field, macro and magazine cover design

This elective is recommended to those students who wish to pursue the Design: Graphics course in Senior School.

**Approximate course charge: \$32.00**

### Advanced Digital Photographic Skills - Sem 2

10PHTT2

Students will extend themselves creatively and reinforce the learning from Semester 1 with the use of flash photography, studio techniques and compositional effects.

This elective is recommended to those students who wish to pursue the Design: Graphics course in Senior School.

**Approximate course charge: \$32.00**

## DESIGN AND TECHNOLOGY

In Design and Technology students further their experience and skills with machinery, power tools and hand tools, whilst learning workshop safety and procedures, to complete projects with manual and technical skills suited to current and future industries. Students may choose to complete a full year course in metalwork or woodwork, or a single semester of either woodwork or metalwork.

**Automotive Basics and Workshop Skills for Girls - Semester 1****10AUTO1**

This course is aimed at giving students a basic understanding of how a motor vehicle works and its' maintenance requirements. This course also aims to give students a broader understanding of the issues pertaining to owning a motor vehicle and using the road.

This unit covers:

- Basic engine and automotive system technology
- Tyre changing
- Oil changing
- Cooling system maintenance
- Car care, roadworthy checks and fault diagnosis
- Motor vehicle expenditure
- Motor vehicles and society ( past, present and future)

This elective is recommended to those students who wish to pursue the Automotive Engineering and Technology course in Senior School.

**Approximate course charge: \$25**

**Computer Assisted Drafting - Semester 1 or 2****10CAD1 10CAD2**

Building on skills from Year 9 CAD students will continue using state of the art industry standard software (AutoDESK Revit Architectural, AutoCAD and AutoDESK Inventor) to design, draft and make various products in both mechanical and architectural drafting disciplines. Students have access to both 3D printer and a laser cutter to make their designs a reality. CAD allows students to make real life connections between Science and Engineering and is highly recommended for students pursuing a trade qualification or an engineering based science degree in future years.

This elective is recommended to those students who wish to pursue the Design - Technical Graphics and Materials Design and Technology (Wood) courses and Certificate II in Building and Construction or Certificate II in Engineering in Senior School.

**Approximate course charge: \$30**

**Woodwork - Semester 1 or 2****10WOOD1 10WOOD2**

Students apply their skills to the development of indoor furniture items and extend their knowledge of design and construction as well as appropriate finishing techniques. This unit covers:

- Marking Out
- Safe use of hand power tools and machines
- Maintenance of hand tools
- Finishing Techniques
- Drawing Techniques
- Timber furniture construction techniques

This elective is recommended to those students who wish to pursue the Materials Design and Technology –Wood course and/or a Certificate II Building and Construction in Senior School.

**Approximate course charge: \$40.00**

**Advanced Woodwork - Semester 2 only****10WW2**

Students will further develop their skills in the manufacturing of furniture items and extend their knowledge of construction techniques.

This unit covers:

- Reading of plans
- Marking Out
- Safe use of power tools
- Maintenance of hand tools
- Construction Techniques
- Design fundamentals
- Finishing Techniques
- Drawing Techniques

This elective is recommended to those students who wish to pursue the Materials Design and Technology –Wood course and/or a Certificate II Building and Construction in Senior School.

**Approximate course charge: \$45.00**

**Metalwork - Semester 1 or 2****10META1 10META2**

Students apply their skills to the development of metal fabrication techniques and produce a variety of items from both mild steel and sheet metal.

This unit covers:

- Design Processes
- Gas welding
- MIG and Stick welding
- Sheet metal fabrication
- Safe use of power tools
- Polishing Techniques

This elective is recommended to those students who wish to pursue a Certificate II Engineering in Senior School.

**Approximate course charge: \$45.00**

**Advanced Metalwork - Semester 2 only****10MW2**

Students will further develop their skills in the development of metal fabrication techniques and produce a variety of items from both mild steel and sheet metal.

This unit covers:

- Safe use of power tools and machinery
- Properties of metals
- Wrought iron work
- Gas welding
- Stick welding

This elective is recommended to those students who wish to pursue a Certificate II Engineering in Senior School.

**Approximate course charge: \$45.00**

## SCIENCE

### Applied Science: Microbiology - Semester 1

10APSC1

After this course you will not think twice about washing your hands before you eat. 'Critters' are everywhere. You are covered in them! Come and find out just what most of the life on the planet (and probably elsewhere in the universe!) is like. Along the way, grow your own and investigate how they, really, are nature's inevitable inheritors of the planet.

Note: this course is highly recommended for those students who intend to study science in years 11 and 12. Although it will include a significant amount of hands on activities, the science content of this course is at a high level—not for the faint hearted!

**Approximate course charge: \$28.00**

### Applied Science: Biotechnology - Semester 2

10APSC2

This is it! Just what will the future look like? Well it's already here. In this course you will have the opportunity to develop a high level of understanding of some major science technologies that are affecting how the future will look. Come and sequence some DNA and find out just why Luke Skywalker is behind the times.

This course is highly recommended for those students who intend to study Science in year 11 and 12. Although it will include significant amount of hands on activities, the science content of this course is at a high level – not for the faint hearted!

**Approximate course charge: \$28.00**

## HEALTH AND PHYSICAL EDUCATION

### Physical Education

10PE1 10PE2

***Compulsory for all students (unless enrolled in the Specialist Cricket Program or Elite Physical Education program)***

Students are provided with opportunities to develop a range of skills and knowledge through a variety of physical activities and sports. Students will also be provided with opportunities to extend their knowledge and understanding of their own and others' physical, mental/emotional and social health, through the study of a variety of health issues.

**Approximate course charge: Nil**

### Elite Performance Physical Education (Year Long Course) 10EPES1 10EPES2

This course for high performing physical education students, will provide the opportunity to develop both physical and theoretical skills that will help prepare them for the senior school ATAR Physical Education Studies course and/or a Certificate II in Sport and Recreation. Students will be introduced to practical and written assessment strategies covering topics such as biomechanics, exercise and sports science, functional anatomy, motor learning and coaching. The course will also develop skills, strategies and tactics through a variety of sports.

This elective is recommended to those students who wish to pursue the Physical Education Studies ATAR course and/or a Certificate II in Sport and Recreation in Senior School.

**Approximate course charge: Nil**

**Recreation - Semester 1****10REC1**

Students will have the opportunity to pursue recreational sporting interests that they otherwise would not have in physical education. This may include archery, table tennis, ten pin bowling, squash, badminton, mountain biking and games to promote team building. Students must be prepared to accept a high degree of responsibility in using expensive equipment and to be trusted while off school site at times. The significant cost for this course is for maintenance and replacement of essential equipment.

This elective is recommended to those students who wish to pursue Physical Education courses and/or a Certificate II in Sport and Recreation in Senior School.

**Approximate course charge: \$70.00**

**Basketball - Semester 2 only****10BASK2**

Students will be provided with individualised training and skill analysis within the sporting context of basketball. They will learn various off-the-ball movements, strategies and tactics. Students will also work towards completing AIS approved basketball coaching or umpiring certificates, which will enhance their knowledge and skills of the game.

This elective is recommended to those students who wish to pursue Physical Education courses and/or a Certificate II in Sport and Recreation in Senior School.

**Approximate course charge: Nil**

**Outdoor Education - Semester 1 or 2****10OED1 10OED2**

Students will be challenged with more advanced outdoor skills as they prepare for an expedition camp. After a refresher of the basic principles, students will learn about canoeing, orienteering, navigation, roping skills, camp cooking, mountain biking, camping preparation and first aid. Students will need to develop good skills in working as part of a team and cooperating to solve problems.

This elective is recommended to those students who wish to pursue the Outdoor Education course in Senior School.

**Approximate course charge: \$40.00**

**Weights and Fitness - Semester 1 or 2****10W&F1 10W&F2**

Students serious about improving their personal fitness will have the opportunity to pursue various activities within this semester 2 course, utilising the schools new fitness room. They will learn correct resistance training techniques, which are vital to minimising injury. Other activities may include fitness appraisals, yoga, and boxing, using technology such as iPods, iPads and heart rate monitors to create individualised fitness and weights programs.

This elective is recommended to those students who wish to pursue Physical Education courses and/or a Certificate II in Sport and Recreation in Senior School.

**Approximate course charge: \$35.00**

Commencing in 2009, Dalyellup College offered a Specialised Cricket Program for students in Year 8. The program grew annually until 2013, when the program was available for students from Year 8 through to Year 12. The course is available for male and female students.

Lower School Program - Students will be involved in cricket studies for 4 periods per week. Areas of focus include the following:

- Batting, bowling and fielding skills development
- History and etiquette of cricket
- Fitness training
- Diet and lifestyle development
- Umpiring / Scoring
- Resiliency and mental skills
- Team building activities
- Training camps
- Captaincy
- Match strategies

This course is recommended to those students who wish to pursue Physical Education courses and/or a Certificate II in Sport and Recreation –Cricket in Senior School.

**Approximate course charge: \$265.00**

Students new to the cricket program will need to purchase a cricket uniform available from the school. The following items are required:

- |  |         |
|--|---------|
| • White Shirt                            | \$25.00 |
| • Fitted Polo (Lower School) - Navy/Rust | \$33.00 |
| • PE Polo Lt Blue/Navy                   | \$33.50 |
| • Baggy Teal Hat                         | \$35.00 |
| • Broad Brim Hat                         | \$15.00 |

