

# ELECTIVE Guide

Weeroona College Bendigo

# 20 23



**WE  
CREATE  
BRILLIANCE**  
WEEROONA COLLEGE BENDIGO  
**WCB**

INTRODUCTION

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# Welcome

## INTRODUCTION

# 2023 Elective Booklet

## We Create Brilliance

Welcome to the 2023 elective booklet. This is a comprehensive guide to the many subjects and pathways that are available for Weeroona College Bendigo students and families to explore for Year 9 and Year 10.

This is a family document. It is not intended that only students read through these pages. It is the student who will be enrolled in the subjects chosen, but it is the role of parents, carers and guardians to be actively engaged with their child in the process of subject selection. Please work together in developing your understanding of pathways and subject content.

This elective booklet is designed to provide information, but it is expected this information will be teased out with advisory and career staff and enriched through these conversations.

As an overriding guide to making selections, students can focus on the main areas below:

Identify your interests and strengths

Identify what you are good at

Identify what will lead to a job you are interested in

Identify what will prepare you for further training or tertiary studies

**In 2023 there are many subjects and pathways available to WCB students**



# Curriculum Structure

## Year 9 and 10

The Year 9 and 10 curriculum at Weeroona College Bendigo stems from the Victorian Curriculum F-10, which sets out a single, coherent and comprehensive set of content descriptions and associated achievement standards. This information enables staff to plan, monitor, assess and report on the learning achievement of every student.

At Year 9 we see the introduction of student electives into the timetable. The core curriculum sees students undertake English, Mathematics,

Science, and Humanities Physical Education and Health is a core subject that is taught within the elective program.

Students then study six other semester based electives throughout the year. As part of a balanced curriculum students are encouraged to select no more than 2 electives from within a learning area.

### SAMPLE YEAR 9 PROGRAM - SEM 1

|               |   |
|---------------|---|
| CORE SUBJECTS | English<br>Maths<br>Humanities<br>Science                             |
| ELECTIVES     | Year 9 PE<br>Year 9 Foods<br>Creative Writing<br>First Nations People |

### SAMPLE YEAR 9 PROGRAM - SEM 2

|               |   |
|---------------|---|
| CORE SUBJECTS | English<br>Maths<br>Humanities<br>Science             |
| ELECTIVES     | Year 9 PE<br>Drawing<br>Horticulture<br>Sport Science |

At Year 10 students study the core curriculum of English, Mathematics, Science and Humanities. Physical Education and Health is a core subject that is taught as a semester based subject within the elective program.

Students then study seven other semester based electives throughout the year. As part of a balanced

curriculum students are encouraged to select no more than two PE/Health electives.

Students are unable to repeat electives that they studied in 2022. \*Some Art subjects are the exception.

### SAMPLE YEAR 10 PROGRAM - SEM 1

|               |  |
|---------------|--|
| CORE SUBJECTS | English<br>Maths<br>Humanities<br>Science                          |
| ELECTIVES     | Woodwork<br>Boys in Sport<br>Legal Studies<br>20th Century History |

### SAMPLE YEAR 10 PROGRAM - SEM 2

|               |   |
|---------------|---|
| CORE SUBJECTS | English<br>Maths<br>Humanities<br>Science                               |
| ELECTIVES     | First Nations People<br>Creative Writing<br>General PE<br>World of Food |



## INTRODUCTION

# VCE and VET

## VCE Offerings

The college has made a commitment to provide Year 10 students with the opportunity to participate in an accelerated program. College staff can advise students on their suitability to undertake any VCE subjects.

It should be noted that students will not be disadvantaged by not undertaking a VCE subject at Year 10, nor should it be assumed that completing Units 1 & 2 automatically assumes that students need to complete Units 3 & 4 at Year 11.

Students intending to select a VCE subject must have shown a commitment to producing high quality work, have regularly met time deadlines and displayed sound organisation and time management skills.

VCE offerings are counted as 4 of the elective choices.

WCB has a commitment to provide Year 10 students with the opportunity to participate in an accelerated program.

## VET Offerings

VET stands for Vocational Education and Training is a nationally recognised Training Qualification Framework. VET is now available as a scored assessment for the Australian Tertiary Admission Ranking (ATAR) in VCE in some instances.

All VET subjects run for one semester ONLY and students need to be at 15 years of age to undertake a VET subject.

VET offerings are counted as 2 of the elective choices.



# English

## English electives

### Film Appreciation

This elective aims to broaden students' understanding of film as an art form through a wide range of screen-based media, including both classic and contemporary features, short films and documentaries.

Students will learn to appreciate the aesthetic and literary aspects of film, and the techniques of filmmaking through a wide range of film genres.

This elective provides opportunities for students to develop their ability to critically view screen media and respond in written reviews and critiques.

Students will be required to complete a range of activities that complement visual literacy skills within the English curriculum.

### Creative Writing

The primary aim of this elective is to develop students as writers through a sustained focus on creative expression, structure, fluency and the drafting and editing process.

Students are expected to brainstorm, plan, draft, proof read and then produce polished final copies of their work in the elective.

Students will receive explicit teaching in areas such as structure for different styles of writing and grammar.

Students have the option of self-directing their learning.

### English Tutorial (Year 9 and 10)

This elective is aimed at Year 10 students who require additional support to participate in the Year 10 English curriculum. Students who select this elective are working below the expected level, but are interested in improving their skills in the areas of reading, writing and oral presentations.

Students will participate in explicit lessons on analysing literature, analysing arguments, delivering oral presentations, writing text response essays and developing exam preparation strategies.

### English Literature

The English Literature elective is designed for Year 9 and 10 students who love reading and are looking for an opportunity to extend their critical thinking and analytical skills.

The purpose of this course is to develop an enjoyment of language and literature through deep and critical reading. Students will be supported to appreciate the stylistic and aesthetic qualities of texts, develop the ability to engage in critical analysis and explore how social and cultural contexts influence literature.

Students will participate class discussions and will produce text response essays critically analysing the texts.

# Maths

## Mathematics electives

### Maths Tutorial Group

This elective is primarily a self-directed elective aimed at both Year 9 and 10 students who have displayed a positive attitude towards their studies in Mathematics. They may be working above, at or below the expected level.

Students who choose this elective would be keen to improve their understanding and may be aiming to progress further through the levels than what they could do without the extra time (e.g. may wish to complete both level 8 and 9 in the one year). This would assist them in being able to successfully complete units of study in VCE Mathematics that they may not be able to do otherwise.

#### Pre-requisites

Ability to work in a self-directed learning environment.

#### Pathway

General Mathematics, Mathematical Methods/ Specialist Mathematics (VCE).

### Advance Year 9

#### Mathematics

This elective is for those students who are wishing to keep all options open for their studies of Mathematics at the VCE level. Students will be expected to have a high level of mathematical understanding and a willingness to apply themselves both in class and at home.

The focus of this elective is on developing the algebra skills prevalent through high level VCE Mathematics courses and aims to give students the best chance of successfully completing these subjects.

It should be considered essential to select this elective if wishing to study Maths Methods and/or Specialist Maths.

Other areas of Mathematics that are not included in the curriculum but of interest and benefit to students, will be covered.

#### Pre-requisites

Students would have successfully studied a minimum of Level 8 Mathematics in their core class in 2021 or be willing to discuss this with their classroom teachers.

#### Pathway

Advanced Year 10 Mathematics.  
Mathematical Methods/  
Specialist Mathematics (VCE).

### Advance Year 10

#### Mathematics

This elective is for those students who are wishing to keep all options open for their studies of Mathematics at the VCE level. Students will be expected to have a high level of mathematical understanding and a willingness to apply themselves both in class and at home.

The focus of this elective is to continue developing high end Mathematics skills, including exposure to concepts including Surds, Matrices, non-right-angle trigonometry and algebraic equations and modelling. There is also a focus on accessing technology to assist our work, particularly CAS calculator applications.

It should be considered essential to select this elective if wishing to study Maths Methods and/or Specialist Maths.

#### Pre-requisites

Students would have successfully studied a minimum of Level 9 Mathematics in their core class in 2021 or be willing to discuss this with their classroom teachers.

#### Pathway

Mathematical Methods/  
Specialist Mathematics (VCE).

# Humanities

## Humanities electives

### First Nations People

Students investigate, discuss and examine indigenous cultures within our global community with a particular focus on Australian Indigenous people, culture and country.

The elective allows students to investigate Indigenous Australian culture and histories from both a local perspective (Dja Dja Wurrung), and a national level (Yolngu, East Arnhem Land). From these case studies, inferences about traditional culture and practices are drawn.

Students examine a range of primary and secondary sources to evaluate the significance of the conflicts that occurred between pioneer settlers and Indigenous people throughout the process of colonisation. They study the determining factors for these conflicts, including deforestation and the seizing of land, food and water sources. Students then develop a contention to the current public debate regarding whether these conflicts should be recognised as a 'war' in mainstream Australian history.

By comparing indigenous cultures throughout history around the world, students begin to identify the important role these cultures have played in the shaping of our international community and identity.

### Legal Studies

Legal studies focuses on laws that affect us in everyday life. Students develop an understanding of who makes the laws under which we all must live and also looks at resolving civil and criminal disputes through courts and other bodies. The study provides students with an appreciation of how individuals can be involved in decision making within the legal system, encouraging civic engagement and helping them to be more informed and active citizens.

### History of Sport

The aim of the elective is to provide the opportunity for students to explore the notion of "sport" from a cultural and historical perspective.

Students will use the Historical Skills from the Victorian Curriculum, including, Investigating, Inquiring, Sequencing and Researching. Additionally, students will use their knowledge of ethics, identify and analyse Primary and Secondary sources as well as formulate and communicate arguments using sport as the central theme.

This unit provides students with interest and enjoyment of historical study for lifelong learning and their work and provides knowledge and skills that link closely to core and elective subjects as well as careers and pathways options.

### 20th Century History

This unit explores significant events and ideas that shaped world history in the 20th Century.

Students will examine and discuss the ideas and people associated with these events and evaluate the impact on society's values in Australia and throughout the world.

Students will research popular culture from the 1950's onwards. This will be studied under the umbrella of 'Music is the Soundtrack of Our Lives'.

Students will undertake a research project on a Twentieth Century event/discovery that will be presented to the class in an electronic presentation of your choice.

### Travel and Tourism

This course introduces students to the diverse and interesting field of Tourism. Students will look at why people travel to particular places and what makes locations tourist attractions. Students will also investigate the different ways people travel, including backpacking, tour packages and ecotourism.

We will explore the impact of natural and manmade disasters and what impact they have had on tourism locally, internationally and globally. How have different places reacted, what solutions have they put in place?

The study of tourism gives students a range of diverse opportunities and enables them to gain many different transferable skills including time-management, planning, problem-solving, and budgeting, communication, leadership and teamwork skills.

Students will create travel itineraries and brochures for use in the tourism industry as well as looking at case studies of different countries.



## Sports Management

If you're a sport enthusiast interested in what happens behind-the-scenes - how sport is managed, presented and promoted - this semester elective gives you that insight. You'll explore the business of sport-specific operations through theory and work experience in the sports industry.

Students will use the Economic and Business Skills from the Victorian Curriculum, including, developing transferable skills that enable them to identify and investigate contemporary economic and business issues or events in a sporting context. This will assist them to understand the behaviour of sporting franchises, clubs and athletes in the economy, society and final environment, particularly the decisions made by Sporting organisations.

This unit will investigate areas such as Sports Management, Sponsorship, Sports Media and Sports Law, with a linear pathway to VCE possibilities such as Business Management, Accounting, Economics and Health and Human Development. Additionally, students will have additional insight into the ever popular Tertiary Courses of Sports Management and Sports Business.

## Introduction to Revolutions

This subject will focus on Key Revolutions and Conflicts that have shaped Modern History. Topics may include the French Revolution, The Russian Revolution and The Spanish Civil War. Students will analyse and respond to the causes, consequences and historical legacies of these monumental events. Students will extend their research skills to critically evaluate both primary and secondary historical sources.

This subject supports students by providing more in-depth coverage of key historical curriculum and explicitly linking together key historical periods covered in Humanities. The elective also provides students with a clear pathway to History subjects at a VCE level.

## Introduction to Philosophy and Ethics

This unit will introduce students to a range of philosophical thinkers and ideas that have shaped the world around us. Students will develop and hone their rational thinking and debating skills while exploring ideas and concepts that will potentially challenge their current world view.

Students will be introduced to a range of thought experiments, debates and conversations about real life issues and topics that will challenge them to think more rationally about the world around them and confront their own sense of 'morals and ethics'.

This subject will act as a great taster for students that may be considering VCE ethics and philosophy courses, but more generally be a great way for students to develop their verbal and written response skills while engaging in relevant real life content.

## VCE Humanities Taster Elective

At VCE Level there is a wide range of Humanities subjects that cover a broad range of content and skills. This elective offers a small taste of some of these subjects so that students have a more accurate understanding of what studying

Humanities at VCE could involve. Students will complete 4 units across the semester, each with a focus on a different Humanities subject offered at a VCE level. These could include but are not limited to: Australian and Global Politics, Sociology, Economics, Ancient History etc.

Students undertaking this elective will not only get a taste of content and subjects they may like to consider in their VCE studies, they will also develop their general Humanities academic skills as well as time management and personal development skills to help prepare them for the VCE Pathway of their choice.

## Geography Fieldwork and Inquiry

The fieldwork process, being out in nature and learning from the world around you, is an essential part of studying geography. This unit will take students through the process

from start to finish, and allow them to develop the key geographical skills including research, collecting and analysing data, mapping and creating visual representations of information. Students will develop their ability to think spatially and geographically while exploring real world issues including sustainability, climate change, waste and natural disasters. This subject will give students an idea of the depth of opportunities studying geography can provide and would be a great introduction to further study in the field for those considering VCE geography or environmental science.

This subject will provide students with an opportunity to deepen their understanding of key geographical concepts and skills. Students will learn how to design and undertake a geographical inquiry process. They will develop observation and research skills for a fieldwork based project at the end of the subject.

# Science

## Science electives

### Biology

Students concentrate on topics within the Biological Science Strand.

Students will study the structure and function of cells as a basic unit of life. DNA, cell development, and the differences between prokaryotic and eukaryotic cells will be looked at. Specialised cell structures that maintain life will be covered. Student will become familiar with current and emerging technology that furthers our knowledge of cells as functional units, such as stem cells.

Students will study the relationship between environmental factors and adaptations.

They will also design and perform a number of practical activities that develop knowledge and skill in design, measurement and data organisation.

#### Pathways

Students intending to do a Science based VCE are strongly advised to complete this elective to prepare for VCE studies. The topics are taught at an advanced level and some Year 11 & 12 work is covered.

### Physics

This elective is for Year 10 students who are considering doing Physics at VCE level next year. Students will need a reasonable level of competence in Year 9 Core Science and a high level of competence in Year 9 Mathematics.

Topics will come from the Physical

### Human Biology

Students concentrate on topics within the Biological Science Strand.

Students observe how structures at the cellular and systems level are related to their function.

Several of the body's systems are examined and how they interact with each other to support life, consideration is given to the chronological changes of these systems.

Students learn about factors affecting the health of the human body and its response to disease, this includes research into local health facilities.

Students also experience a variety of practical activities that develop knowledge and skill in design, measurement and data organisation.

#### Pathways

This is an ideal preparation for VCE Biology.

Science Strand and will extend students' prior knowledge from previous years. There will be an emphasis on practical experiments and the mathematics underpinning these experiments.

Topics will include forces and concepts used to model motion, energy in motion, particles in the nucleus, energy from the

### Horticulture

This course aims to provide students with the introductory knowledge and skills required for identification, propagation, growing and pruning of plants.

#### Course Description

Activities including seed growing, culture media, other methods of propagation, composting and pruning. Introduction to organic gardening techniques and safe use of hand tools. Pest identification.

#### Assessment tasks

Major assignment  
Practical component  
Class worksheets

#### Additional requirements

Positive attitude  
Willingness to be involved in physical activities such as planting and digging

#### Pathways

This subject is an excellent introduction for students interested in growing plants for their own use or leading into a future career in horticulture.

nucleus, atomic reactions, radiation and its effect on the human body.

Assessment will be through assignments, topic tests and practical SAT's.

This is a full year course.

#### Pathways

The successful completion of this Year 10 elective will enable a student to pursue, more confidently, Physics at VCE level.

## Energy Breakthrough

This elective aims to engage students in hands on, inquiry based, collaborative learning using innovative technologies as part of the community based Energy Breakthrough program. Students explore solutions to environmental and transport issues that are real world challenges. They work directly on the Energy Breakthrough vehicles to continually refine and improve its performance, as well as their physical fitness and riding skills.

Students develop and apply the design thinking process to the Energy Breakthrough vehicle and competition. They investigate ways to make the rider and vehicle more efficient in competition and actively create solutions to these ideas that can be trialled and assessed. As well as exploring different types of training techniques and programs.

### Pre requisites

Students enrolled in this elective are expected to be a part of the team competing in races around Victoria throughout the year leading up to our end of the year competition at Maryborough 24hr Trials and, as such, are expected to attend training sessions run outside school hours.

Students interested in the subject must attend compulsory tryouts that take place during subject selection the year before. This is a requirement to select the subject.

### Pathways

This elective would be ideal for those students thinking about a career in engineering or associated fields. Great lead into Competition vehicles at BSSC.

## Chemistry

This elective is for Year 10 students who are considering doing Chemistry at VCE level next year.

Students will need a reasonable level of competence in both Year 9 core Science and Mathematics.

Topics will come from the Chemical Science Strand and will extend students' prior knowledge from Year 9 and Year 10 core Science. There will be an emphasis on practical experiments and the theory underpinning these experiments.

Topics will include Atoms, Elements and Compounds; the Periodic Table; Acids and Bases; Chemical Bonds; Chemical Reactions; Metals and their Properties and Reaction Types. Students will also investigate the history of chemistry and the scientists who have shaped that history.

Assessment will be through assignments, topic tests and practical SAT.

Successful completion of this Year 10 elective will enable a student to pursue, more confidently, Chemistry at VCE level.

## STEM Investigations

This elective aims to provide students with skills to navigate the rapid advances in technology and environmental challenges that are changing the way we live and work.

Students will use Design Thinking Process to develop an understanding of and solve everyday problems we are currently facing in society. STEM applies Science, Technology, Engineering and Mathematics to practical problems and looks to find workable solutions that can be used for everyone's benefit.

## Psychology

This semester long subject provides a fun and engaging investigation into the wonders of the brain, our thoughts and the influence of others on behavior.

Students investigate a range of topics including the brain, mental health and forensic psychology. They examine the topic of sports psychology, which considers ways to improve performance, reduce stress and the importance of team work. Students participate in a number of practical experiments in their examination of ways to improve memory and the different types of learning. Students learn and apply aspects of the knowledge and skill of the discipline (critical thinking, experimentation, problem-solving and research skills) to understand human behaviour.

By studying psychology, students will learn about themselves, their interactions with others and how to be a more successful learner.

### Pathways

This is an ideal preparation for VCE Psychology.

Students will develop solutions to a problem they are interested in and work with the Bendigo Tech School to investigate and find solutions for local real world issues.

### Pathways

This elective would be great for students interested in applying creative thinking to solve real world problems. It would suit a wide range of students such as those interested pursuing VCE Extended Investigation.

# Languages

## Language electives

### Auslan

The study of Auslan contributes to the overall education of students, particularly in the areas of communication, cross-cultural understanding, literacy and general knowledge. It provides access to the culture of a unique Australian cultural community. The study promotes understanding of different attitudes and values within the wider Australian community and beyond and promotes the language, and cross-cultural understanding.

This course is designed to enable students to: use Auslan to communicate with others; understand and appreciate the cultural contexts in which Auslan is used.

### Pathways

The ability to communicate in Auslan may, in conjunction with other skills, provide students with enhanced vocational opportunities such as teaching the language, teaching deaf children, interpreting, social work, counselling.

This subject will lead to undertaking Units 1 and 2 AUSLAN.

### Chinese - Year 9 and 10

This course is suited to students who have a passion for and enjoy learning a language.

### Students will:

Demonstrate basic operational knowledge in a moderate range of areas through the application of basic communicative skills to meet immediate needs and handle brief exchanges.

Apply a defined range of skills to interact in a simple way with others.

Apply known solutions to a limited range of predictable problems through the selection of appropriate words, phrases and gestures, from a limited repertoire, when engaged in social functions in familiar contexts.

Assess and record information from varied sources through the application of basic reading, writing, speaking and listening skills relevant to the situation.

### Pathways

Learning a language opens up career opportunities in areas such as Tourism and Hospitality, Commerce, Journalism, Technical Professionals, Teaching, Diplomacy and the Defence Forces.



# Technology

## Technology electives

### Foods - Year 9

In this course students learn new preparation skills and cookery techniques, with an emphasis on cooking healthy meals and snacks as well as increasing independence in the kitchen.

In theory classes, students investigate the factors leading to food poisoning and how this can be prevented. Students also explore the health implications of sugar and how to reduce sugar consumption.

A design task is completed, allowing students to use their knowledge of what makes foods healthy, by designing and producing a healthy fast food lunch item.

This is an ideal subject for those students who wish to be involved in the hospitality industry or have a keen interest in foods and cooking.

### Foods - Year 10

In this subject, students are encouraged to become more independent with their cooking and take an active role in choosing some of the recipes cooked in class. Students learn about different foods, ingredients and cooking processes and learn to cook foods that can be prepared as main meals at home.

Students investigate different types of breakfasts and the design, produce and evaluate their own breakfast item. They investigate the principles of food processing and compare home-made foods to similar factory-produced meals. They also unpack the different ingredients found in commercially produced biscuits and then design and produce their own style of biscuits.

This subject is perfect for students wishing to be involved in the hospitality industry. Students with an interest completing Food Studies, Physical Education or Health and Human Development units at VCE level are also encouraged to choose this elective.

### World of Food

This unit focuses on exploring a variety of cuisines around the world.

It will develop the skills associated with the preparation and presentation of foods from a number of countries and cultures.

Students create a travel diary that details the countries visited and investigate a variety of foods enjoyed by the countries on the travel agenda. Dishes produced are from ingredients found in the local region. They also investigate the influence of culture, climate and economics on the local cuisine.

Students examine the effects of obesity from a world perspective and look at food insecurity and the problems that are faced by a number of countries.

#### Pathways

VCE – Food Studies  
VCE – Health and Human Development  
VET – Certificate II Kitchen Operations  
Assist with employment in the Hospitality industry.

### Exploring Textiles

This unit introduces students to the world of textiles, crafts and fashion with a choice of making or altering garments and accessories. Students can also participate in craft based activities including embroidering and/or embellishing items of clothing, bags

or other items made in class. Students will be encouraged to learn new skills or develop those skills they already have to create items.

#### Pathways

This subject enables further study in VCE and TAFE.



# Technology

## Technology electives continued

### Wood Technology

Students will develop skills and knowledge in basic woodwork equipment to safely produce set projects with an element of their own design. Students will be required to use a range of techniques and equipment to safely investigate, design, produce, and evaluate various wood projects.

#### Pathways

This elective may lead to VET Certificate II Furnishing, along with employment.

### General Metalwork

Students will develop skills and knowledge in the production of metal products and use a range of techniques and equipment to safely investigate, design, produce and evaluate various projects. Students will be required to investigate, design, produce and evaluate various creative projects, some set and some negotiated.

#### Pathways

This elective may lead to VET Certificate II Engineering, along with employment.

### Electronics

With a focus on providing learning in a fun and engaging environment, this unit introduces students to the world of electronics. Following the design process, students will undertake both guided instruction and plenty of hands-on tasks to create a variety of different projects. No prior experience or knowledge is needed as students learn to safely use and create with equipment such as multi meters, soldering irons, circuit boards, motors, switches and lights.

#### Pathways

Leads to VCE, TAFE courses, trade and employment options.

### Machine Shop Engineering

This unit introduces students to safe use of engineering tools and equipment, including use of engineering lathe, mill and MIG welding. Students will produce set projects and design, machine and fabricate their own projects based on metals. Topics will include workshop safety, MIG welding, Lathe work, Project design and Mill work

#### Pathways

This elective may lead to VET Automotive or Certificate 11 Engineering, along with employment.

### Design and Engineering

This elective will give students the opportunity to engage in designing and building a portable, amplified Bluetooth speaker system. Using a range of variables students will design using creative and innovative design ideas to generate solutions. Students will use a range of materials and techniques for assembly, including designing and 3D printing some components.

#### Pathways

This elective would lead to Design and Technology units 1 & 2 at VCE level and Systems Engineering and VCE.

### Small Engines

This technology subject is suited to students who are interested in the Automotive/mechanical industry and have a mechanical aptitude. This unit looks at complete engine disassembly, assembly and diagnostics of engine faults. Students will learn correct safe working procedures and carry out investigations of current automotive technologies. This work is supported by theory sessions and assignment tasks throughout the semester.

## Programming (Robotics and Gamemaking)

This subject will offer students the opportunity to develop and understand fundamental computer programming principles. Students will apply basic programming structures to design a game in term 1 and then apply similar principles to the robotics unit.

### Pathways

Computer industry as a programmer or system analyst. VCE subjects of Information Technology (Programming), IT Applications, Information Systems or Certificate 3 IT (various streams) employment.

## 3D Printing (Computer Aided Design)

In this course students develop their skills in advanced manufacturing using computer aided design (CAD) software. Students can design and 3D render using Fusion 360 and then produce their item using a 3D printer. Students work towards a personal project of their choice. Students will learn how to use a range of the software tools and then create IPod docks, USB holders and various other 3D prototypes.

### Pathways

\*VCE – IT subjects, Maths, Product Design Technology, Systems Engineering, Visual Communication Design

\* Trade training

## Adobe Creative (Photoshop & Illustrator)

This subject explores Photoshop and Illustrator from a design perspective to create a diverse range of layouts for various purposes and audiences. Students will manipulate images and create unique publications using the power of Photoshop and Illustrator.

### Pathways

VCE IT subjects

Opportunities exist for students seeking employment directly from school.

Bachelor Degrees in: Computing, Digital Technology, Information Systems and Applied Science (Computing)

## Creative Technology

Students will develop skills, knowledge and use a range of techniques, materials and equipment. Students will be required to investigate, design, produce and evaluate various creative projects, some set and some negotiated. Focus topics will include basic welding techniques, safe OHS practices and working skills (wood, plastic and metal) and evaluation.

### Pathways

This elective may lead to VET Certificate II in Engineering, further study in VCE and TAFE.

## Website Design

Students learn to build web sites, initially through learning to write (HTML) code, and later through Dreamweaver. Dreamweaver is a software application used commercially to produce and manage web sites. Students will learn to control the layout and format of web pages, and they will learn to use several more advanced tools within this package. Evaluation of external web sites is also completed so that students can understand a variety of features including design elements and typical web protocols.

### Pathways

•VCE IT subjects

•Opportunities exist for students seeking employment directly from school in programming and web design.

•Bachelor Degrees in:

Computing, Digital Technologies, Information Systems, Applied Science (Computing)

# Physical Education and Health

## Physical Education and Health electives

### General HPE - Year 9

This course focuses on developing student communication and teamwork skills through exposure to a wide variety of sports within the Net and Wall, Striking and Fielding and Invasion fields.

In addition, the students undertake a “Create a Game” assessment to harness creativity and provide a platform for collaboration and leadership. This assessment will entail students working together to design and deliver a hybrid sport to their peers.

As part of their health component, students will explore topics that are specific to their adolescent experiences such as mental health, risk taking, first aid and the pressures of a contemporary society.

### General HPE - Year 10

This course focuses on the development of a healthy attitude towards exercise, wellbeing and physical activity. Students participate in a range of community based recreational activities and games that aim to spark interest and promote an active lifestyle into the future.

In addition, students are provided with further opportunities to develop their capacity to lead and work collaborative with others through term-based SEPEP and Peer Teach assessments.

As part of their health component, students will explore topics that are specific to their adolescent experiences, such as road safety, sexuality and relationships, healthy lifestyles and health promotion.

### Sport Science

This elective allows students to explore the links between Sport and Science and more specifically how the body and movement effects performances in elite sport. The class includes a comprehensive investigation into energy systems, human anatomy, biomechanics and sports specific training methods and principles. In addition, students will learn about the skeletal and muscular systems, the bodies differing energy systems, and how biomechanics are applied to sports and training programs.

### Pathways

This elective has been structured around the VCE Physical Education study guide, particularly Units 1 & 2. It is highly recommended to participate in this elective if there is an intent to go onto VCE P.E. Any student with an interest in anatomy and physiology, fitness training or any biological science would benefit from Sport Science.



## Outdoor Education

This course aims to provide students with the knowledge and skills required for safe participation in a range of outdoor recreation activities.

Activities include: canoeing, rock-climbing, navigation, orienteering, bushcraft as well as promotion of leadership skills, co-operation, self-confidence, trust, teamwork and environmental awareness.

Students are expected to attend overnight camps and day excursions.

### Pathways

This subject is an excellent introduction for students interested in exploring forms of outdoor recreation such as eco-tourism and environmental areas.

Ideal for students wishing to complete VCE Outdoor Education subjects.

## Fitness

This elective aims to provide students with the opportunity to explore a range of different fitness methods and how to improve their own fitness levels. It will involve developing an understanding what it means to be physically fit and healthy, the different fitness components, training methods and how to test an individual's fitness level and compare to age based norms.

Students will participate in a range of fitness testing, identify areas for improvement and develop a training program which they will undertake over a number of sessions. Once they complete their program they will retest again to measure improvement and discuss the benefits of maintaining a healthy lifestyle.

## Specialised Sports (B)

This elective delivers competitive and physical contact based sports.

Within the class, students will be provided with the opportunity to further establish and refine a multitude of fundamental motor skills in sports, such as AFL, Gridiron, Golf, Futsal and Cricket.

In addition, the students will learn about historical events in men's sport, and the prevalence of performance enhancing drugs in modern sport.

At the end of the semester, the class will conclude with an excursion to the MCG Sport Museum.

## Specialised Sports (A)

This elective delivers competitive and physical contact based sports.

Within the class, students will be provided with the opportunity to further establish and refine a multitude of fundamental motor skills in sports, such as Netball, Soccer, Lacrosse, AFL and Tennis.

In addition, the students will learn about historical events in women's sport, the progression and opportunities provided to women in contemporary society, as well as a range of careers in the sporting arena, such as sports medicine, sports administration, coaching and physiotherapy.

At the end of the semester, the class will conclude with a surfing excursion to Lorne.

## Soccer

This course aims to provide students' access to specialist soccer-specific coaching through a tailored program. Students will be provided with opportunities to analyse game-play, learn and master advanced offensive movements, understand defensive tracking, review team formations and refine the fundamental motor skills involved in soccer.

Students will also participate in a number of inter-school matches against other Bendigo regional schools.

## Traditional Games

This course aims to deepen the understanding of Indigenous Australian history and culture in our students through the participation in a variety of traditional games and pastime activities that were, and still are played by Indigenous Australian societies. Students will discover the rich histories of differing traditional games, including how the undertaking of these activities formed a strong foundation of many Indigenous communities and families.

## Athletics Development Program

The Athlete Development Program (ADP) is a select-entry, specialised sports development and education program aimed to assist students in the pursuit of sporting excellence. The program combines general physical preparation (strength & conditioning), technical squad training and athlete development curriculum.

# The Arts

## Visual, Performing Arts & Music Electives

### Art

Students develop their artistic skills through experimenting with a wide range of materials and techniques. They also explore different art styles, and develop their individual creative style.

Students create folios of work based on drawing, painting and mixed media.

Students research into artistic styles and movement.

N,B. Students can repeat this subject as alternative topics are provided.

### Pathways

This subject leads on to VCE Art- Studio Arts and Art General.

### Ceramics

This elective will appeal to students who enjoy working in a three dimensional format. Students will work with many materials including clay, plaster and cardboard.

Students create work that includes:

Clay, hand building units,

Mixed media sculpture

Free choice unit

History of Sculpture Assignment.

N,B. Students can repeat this subject as alternative topics are provided.

### Pathways

This subject leads on to VCE Art- Studio Arts.

### Drawing

Students develop their drawing skills, learning techniques to achieve realism. They also learn to create imaginative and original compositions whilst using a range of drawing materials.

Students create folios of work using new techniques. They develop observation skills through set tasks, and develop personal interests and strengths in original compositions.

Students analyse artists' work.

N,B. Students can repeat this subject as alternative topics are provided.

### Pathways

This subject leads on to VCE Art- Studio Arts and Art General.

### Animation

Students learn to plan and film stop-motion, claymation and 2D digital animation, using a range of editing and creation software.

Students cover the following:

Script writing

Storyboarding

Filming and lighting techniques

Claymation construction

Stop-motion film-making

Digital animation film-making

### Pathways

This subject leads on to VCE Art- Studio Arts, Arts General and VET Digital Media.

### Photography

There are two Photography electives available. **Introduction to Photography** and **Creative Photography**. Each elective has different topics and a slightly different emphasis. For students wishing to do both electives it is recommended that you do this over 2 different semesters. For current Year 9 students if you did Photography in Semester 1 this year, this elective is now called Introduction to Photography.

### Introduction to Photography

Students gain a sound understanding of basic photography skills. This includes a range of traditional darkroom and digital processes, camera use, composition techniques and use of Photoshop.

### Creative Photography

Students learn how to use digital SLR cameras, a variety of lenses, Photoshop and simple darkroom processes. There is an emphasis on creative presentation. They research the work of other photographers to gain an understanding of the impact photography has in the modern world.

### Pathways

This subject leads on to VCE Art- Studio Arts: Photography.



## Drama

Drama is the exploration of the dramatic arts through improvisation and scripted works. The interpretation of texts and the use of skills in presenting to a variety of audiences is an essential component. Students analyse their own and other's performances and examine theatre productions throughout time.

Students cover the following:

- Story-telling
- Script writing
- Breathe-body awareness
- Theatre styles
- The Actor Speaks
- Play Presentation

### Pathways

Leads to VCE Drama and Theatre Studies, acting, set design, costume design, lighting design as well as teaching.

## Music

This elective is for students who love to make music. Beginners and continuing students can enrol in this course. There will be explicit teaching but self-directed learning is a key feature.

Students will gain skills on their chosen instrument for study. They will be required to organise and present a short informal concert to a selected audience. Students will learn to work individually and in small groups. Music theory, creativity and appreciation of music styles and composers will be addressed.

### Pathways

This course will prepare students for VCE Music and community theatre groups.

## Music or Dance

This elective allows students to choose between following a music or dance strand.

The dance strand focuses on students developing their technical ability to encourage safe dance practice and enhance their own dance-making potential. They discover the components of movement and have the knowledge to confidently sequence steps together to form a dance.

The music strand focuses on music theory, creativity and appreciation of music styles and composers.

### Pathways

This subject leads to VCE Dance. Community Theatre/Dance groups.

## Visual Communication and Design

This subject teaches students to brainstorm creative ideas for products, packaging and the WCB School Magazine Cover through learning the Design Process. It extends on design skills introduced in Year 8 Visual Communication, and includes technical drawing and colouring techniques.

### Pathways

This subject leads on to VCE Visual Communication and Design.

## Media Studies

This elective aims to develop students' knowledge of how media relates to our society. There is a focus on both news and film media. Practical work involves the creation of digital productions such as: short films and news broadcasts. Students select their chosen media and working both individually and within groups, they are assessed on their ability to follow production processes to generate digital artefacts.

### Pathways

Media Studies leads to a wide range of employment pathways including Journalism, Film, TV and radio production, multi-media and computer generated entertainment design and production.

## Digital Art

This elective would appeal to students who enjoy using technology creatively to make artwork and designs.

In digital art you will learn industry level digital art skills, while utilising programs professional designers use: digital painting – learn about layering, colour mixing, brushes and texture application.

Practical work includes the creation of: digital landscapes and integrated digital portraits.

### Pathways

VCE: Art, Art Making and Exhibiting (formerly Studio Arts) Visual Communication and Design, VET digital media.

# VCE/VET

## VCE/VET electives

### VCE Psychology

#### Units 1 and 2

Psychology is the scientific study of individuals' thoughts, feelings and behaviour. This year-long VCE subject provides students with a framework for exploring the complex interactions between biological, psychological and social factors that influence human thought, emotions and behaviour. Students investigate the structure and functioning of the human brain and the role it plays in the overall functioning of the human nervous system. They use specific phobia to examine mental health; the process of diagnosis and how to classify psychological disorder and determine an effective treatment. Students explore how their perception of stimuli can be distorted. They evaluate the role social cognition plays in a person's attitude, perception of themselves and relationships with others.

In VCE Psychology students develop a range of inquiry skills involving practical experimentation and research, analytical skills including critical and creative thinking, and communication skills. By studying psychology, students will learn about themselves, their interactions with others and how to be a more successful learner.

### VCE Legal Studies

#### Units 1 and 2

VCE Legal Studies gives students the opportunity and knowledge with which to examine the institutions and principles which underpin and are essential to Australia's legal system. Through this they will develop an understanding of the rule of law, law-makers, key legal institutions, rights protection in Australia, and the justice system. Students will apply knowledge of legal concepts and principles to a range of actual and/or hypothetical scenarios, and develop their ability to use legal reasoning to argue a case for or against a party in a civil or criminal matter. Students will consider and evaluate recent and recommended reforms to the criminal and civil justice systems, and engage in an analysis of the extent to which our legal institutions are effective and our justice system achieves the principles of justice.

The study of law at any level provides the student with an insight into their relationship with the law and the legal system which underpins the society in which they live. Students will learn how to think critically, research and analyse legal information and apply legal reasoning skills to decision making.

### VCE Physical Education

#### Units 1 and 2

This course aims to explore the relationship between musculoskeletal and cardiorespiratory systems in order to produce movement. They investigate the role and functions of the main structures within each system and how they respond to physical activity. Students also investigate the legal and illegal practices that improve performance and look at strategies to reduce the risk of illness and injury to each system. Types of physical activity will be explored and how sedentary behaviour can have an impact on health and wellbeing. This subject is 60% theory and 40% practical work.

## VCE Health and Human Development Units 1 and 2

This subject looks at exploring the dimensions of health and wellbeing and the impact age, culture, religion, gender and socioeconomic status can have on these concepts. Students will focus on youth and examine the variations on health status. Food and nutrition will be explored in relation to good health and wellbeing. Students will investigate the developmental changes that occur of a lifespan. They look at the progression from youth to adulthood. Health care system in Australia will be investigated and a developed understanding of the rights and responsibilities of individuals receiving care.

## VCE Industry and Enterprise

VCE Industry and Enterprise provides students the opportunity to develop both personal and work-related skills through structured workplace learning. It encourages students to develop appropriate attitudes and behaviour allowing them to recognise opportunity, manage risks and mobilise resources in relation to community and work settings. Twenty-first century career pathways are complex and ever changing. Traditional concepts of work are no longer applicable to many careers. VCE Industry and Enterprise enables students to develop personal career goals and plan career pathways. It encourages the development of enterprising behaviour through interactions in personal, work, social and community settings.

## VET Sport and Recreation

This course is auspiced by BSSC (provider code 00861K).

This course is suited to students who have a passion for and enjoy learning about Sport within the community. The subject has an applied learning focus using the sport and recreation sector as its vehicle. These units will incorporate assisting to plan and organise internal sports days and sporting events with our cluster primary schools, Building Stronger Links partners and local sporting leagues and associations. Students will be involved in qualifications in a number of sporting areas including a Level 2 First Aid course. The course incorporates Units 1 and 2 of the VET Sport and Recreation module, with students able to complete Units 3 and 4 at Bendigo Senior Secondary College if they wish.



# VCE/VET

## VET electives continued

### VET Certificate II Hospitality

#### (Advance Cooking class)

This course is auspiced by IVET.

This course is suited to students who have a passion for food and cooking. It provides a good opportunity for students who are interested in the hospitality industry to learn about food and the service industry in general. Three units of competency are completed at Weeroona College, with the remaining units of competency completed at Bendigo Senior Secondary College in Years 11 and 12 if a student chooses to pursue this pathway.

This course is semester based and runs on two lines with a double for cooking and two single theory sessions each week. Students in the double cooking class will cook advanced recipes, often cooking a sweet and savoury dish. Occasionally, students will cater for "High Tea or "Special Guest lunch."

This subject is perfect for students wishing to be involved in the hospitality industry. Students with an interest completing VET hospitality, food Studies, Physical Education or health and Human Development units at VCE level are also encouraged to choose this elective.







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## CONTACT

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