

2023

Year 10
Course
Handbook



DIAMOND
VALLEY
COLLEGE

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Introduction

Dear Students and Parents,

In Year 10 students at Diamond Valley College become part of the senior school where the key values of respect, excellence and responsibility remain paramount to the college ethos. Students have reached an important milestone in their lives when they consider their education in terms of essential requirements for their future pathway and career.

This Handbook contains all the information you need to choose your course for next year. It outlines the Year 10 Curriculum offered at the college from all Domains. It also provides information about enhancement studies where students can access VCE subjects as part of their program.

The teachers have developed a curriculum that will meet the educational needs of students whilst at the same time, engage them in positive and interesting learning. The Year 10 curriculum has been aligned to the senior program to give students optimal opportunities to achieve their personal best in their learning.

Any uncertainty about career direction or subject choice should be directed to the Careers Co-ordinator or the Senior Sub-school staff. College staff members are always available to assist students with their pathway planning. The senior sub-school team, home group teachers and the careers staff will continue to support students through to their final placement in a tertiary course, apprenticeship, training or employment.

We do hope that you enjoy your journey over the next few years.

Senior Sub-School Team

Senior Sub-School Team 2022

Assistant Principal	Reg Byrne
Senior Sub-School Leader	Rebecca Taylor
Year 12 Coordinator	Gemma Patterson
Year 11 Coordinator	Claire Lee
Year 10 Coordinator	Brigette Gilmour
VCAL Coordinator	Ben Strickland
Careers & VET Coordinator	Graham Sinclair

Expectations of Students

The Senior Sub School at Diamond Valley College includes Year 10 and the VCE/VCAL Years 11 and 12. Students enrolled in the Senior School are expected to display high standards of behaviour and due to their senior position in the school act as appropriate role models to junior students.

General Information

Students are expected to take considerable responsibility for their learning by participating actively in and reflecting upon their academic work.

It is their responsibility:

- To meet attendance requirements for all classes
- To work constructively and purposefully in all classes
- To be punctual to school and class
- To complete all set work in the prescribed way by the due date
- To ensure that all work is their own
- To find out about and complete the work missed through absence
- To use their College Planner in an effective manner
- To manage their study and research time effectively outside school contact hours. In year 10 this is expected to be 1-2 hours minimum per subject per week.

Year 10 Program

Diamond Valley College values providing students with choice so that individual strengths and interests can be the basis for the pathway to be followed. This also increases student engagement in their learning. At Year 10 this is provided through a broad elective program.

Program requirements

Students in Year 10 study 12 subjects over the year with English, Mathematics, Physical Education and Health compulsory for the whole year and a Humanities and a Science subject is compulsory for at least half a year.

Compulsory Subjects	Sessions/week - Duration
English	5 – Full Year
Mathematics	5 – Full Year
Physical Education and Health/Sports Academy	5 – Full Year
Science	5 – Half Year
Humanities	5 – Half year

Elective Subjects

The rest of a student's program is made up of electives subjects that come from across other subject areas including VETis and Unit 1 & 2 subjects.

Students must choose six (6) subjects following the selection rules:

- You cannot choose more than 2 subjects from a Domain.
- You must do both Language subjects 1 and 2 in Year 10. This class is worth 2 units.
- You may include a Year 11 subject (2 units) as part of your elective choice but you must meet the selection criteria. You must submit your application for advance placement for to the Senior Sub-School Leader Rebecca Taylor

Can Year 10 Students do a VCE Subject?

Students who meet criteria related to high levels of achievement, application and organization may be offered enrolment in one VCE Advanced Placement subject. A VCE subject must be taken for two semesters. Students choosing an Advanced Placement subject should not choose a Year 10 subject from the same area of study. Applications are made initially on the year 10 elective selection sheet to undertake an advanced placement.

Selecting a Balanced Program: Students should select subjects according to their strengths, interests and their likely Year 11 and 12 programs, keeping in mind the need for balance and maintaining options. Students should select a program that ensures they have the flexibility to change career direction at any time.

The following points should be considered when making selections.

- The student's interests and skills
- Career directions
- Known ability and performance in subject areas
- Aptitude for study and motivation
- A program that leaves options open for the future
- Prerequisite studies deemed necessary by tertiary institutions for entry to specific courses
- Ensure that you understand subject descriptions and seek assistance if you are uncertain
- Do not select studies simply because your friend wants you in the same classes

Eligibility for the VCE (Baccalaureate)

The VCE (Baccalaureate) has been developed by the VCAA, which provides an additional form of recognition for students who undertake the demands of studying both a higher level mathematics and a language in the VCE. Students are eligible to receive the VCE (Baccalaureate) if they choose Italian along with English, Maths Methods or Specialist Maths. Tertiary institutions like universities, have indicated that they strongly support initiatives that encourage students to study a language and a higher-level mathematics in VCE.

Confirming Your Course

After subject selections have been submitted your course will be carefully checked. Students may need to reconsider their choices if there are any concerns with their selections and course requirements. Your course will be confirmed towards the middle of term four

Material Intensive Electives

The cost of running many of the subjects we offer are incorporated into the General Levy, but there are some electives that are more expensive to run, and therefore have a fee attached to them. All Units that are subject to a Material Intensive Elective Charge have been indicated in this Handbook with a

CORE SUBJECTS

English

The Year 10 English curriculum is built around three strands: Language, Literature and Literacy. The course aims to ensure that students further refine their skills in creating, writing, reading, viewing, speaking and listening in preparation for VCE English. Students interact in a range of face-to-face and virtual environments.

Students engage with a variety of texts and examine the contexts in which these texts have been created and read. They interpret, create, discuss, evaluate, and perform a wide range of literary texts with themes and issues involving levels of abstraction, higher order reasoning and intertextual references. Students develop a critical understanding of the contemporary media, and the differences between media texts. Students create a range of imaginative, informative and persuasive texts including narratives, reports, discussions, literary analysis, persuasive responses, transformations of texts and reviews.

Class Work and Assessment

- Reading from a wide range of texts and responding to them
- Participating in individual, paired and group activities related to texts, themes, arguments and ideas being studied
- Listening effectively in order to critically evaluate
- Participating in oral activities such as discussion, debates and more formal oral presentations
- Completing pieces of writing for different audiences and purposes and of varying lengths and styles
- Demonstrating knowledge and skills in the two end of semester examinations

Please note that further studies in English are possible by taking the English unit offered in the elective program.

Mathematics

Two Mathematics courses are offered to meet the differing needs of Year 10 student: Mathematics and Advanced Mathematics. Students will have the choice of Mathematics courses though will be guided by their Year 9 Maths teacher, and future pathways.

Mathematics

This course is aimed at the majority of students and delivers content from Level 10 of the Victorian Curriculum. The topics studied cover the content strands of Number and Algebra, Measurement and Geometry, and Statistics and Probability. The curriculum focuses on developing mathematical understanding, fluency, reasoning and problem-solving skills.

The main areas looked at in this course are:

- Linear Relationships
- Statistical Analysis
- Measurement

This course will set you up for Foundation or General Maths in VCE.

Advanced Mathematics

This course is for students who require higher-level content to enrich their mathematical study whilst completing the common Year 10 content. The course delivers content from Levels 10 and 10A of the Victorian Curriculum. The topics studied cover the content strands of Number and Algebra, Measurement and Geometry, and Statistics and Probability. The curriculum focuses on developing increasingly sophisticated and refined mathematical understanding, fluency, reasoning and problem-solving skills.

The main areas looked at in this course are:

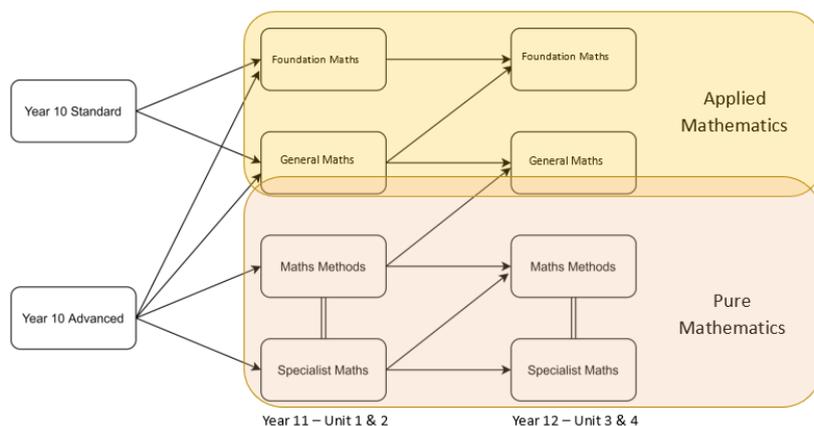
- Linear Relationships
- Statistical Analysis
- Measurement

If you are interested in the Science fields post high school, or are looking at Mathematical Methods and/or Specialist Maths in VCE, you **must** undertake Advanced Mathematics.

ASSESSMENT

To meet the course requirements each semester, students need to complete a combination of skill development activities, investigation work, topic tests and homework tasks, and to demonstrate an adequate understanding of all topics.

There will also be a mid-year exam, along with an end-of-year exam.



Physical Education

This subject aims to examine the impacts of Physical activity on the Human Body and on Australians over their lifespan. Students will investigate how the musculoskeletal system works and its impacts on physical activity and performance. Students will also evaluate factors that shape their sporting/physical activity identities and analyse how individuals impact the identities of others within the Australian culture. Students will also look at staying safe in the community and within the sport and recreation area, developing an understanding of DRSABCD. Within the practical sessions, students engage in invasion and net sports to explore their use of space on the sporting field/court and how they rely on others to achieve individual and team goals.

Unit topics:

- Energy Systems
- Safety of Self & Community (First Aid)
- Skill Development and coaching
- Musculoskeletal system
- Healthy people, healthy communities

To successfully complete this unit students are expected to:

- Participate positively in group activities and contribute to discussions
- Investigate areas, and undertake tasks, related to health and wellbeing
- Maintain a class workbook
- Demonstrate a satisfactory understanding of unit topics through set class work, knowledge tests and practical application

HUMANITIES

Crime And Punishment, Politics (Civics and Citizenship)

In this unit of study, you will learn about government, law and regulation. The study will focus on three key areas: the nature of government in Australia, where have our laws come from and why we need them. You will examine important cases and events in society that have led to changes in the law. You will explore the impact of world treaties and international conventions for human rights as well as environmental rights in the 21st century. Additionally, you will examine the ability of parliament and the courts to respond to the need for law reform.

Areas to be covered will include:

- Australian Democracy
- The Australian Legal System

Learning Tasks

- An investigation of a legal or, political process
- A formal essay
- An exam

Links to VCE Studies

This unit will develop skills and background knowledge that can be extended in the following VCE subjects:

- Australian and Global Politics
- Legal Studies

Modern Times (History)

Modern times follows the great events and political and social movements of the 20th Century from the Great War to Apartheid. Attention will be paid to the Interwar years, World War Two and movements and ideas that dominated the post war world.

Areas to be covered will include:

- The interwar years and World War Two
- A study of an issue of Social Change (Rights and Freedoms)
- A study of a global issue

Learning Tasks

- An evidence exercise
- A formal essay
- An exam

Links to VCE Studies

This unit will develop skills and background knowledge that can be extended in the following VCE subjects:

- Economics
- Geography
- History
- Legal Studies

Poverty And Wealth (Business and Economics)

Poverty and Wealth will look at aspects of Australia’s Economy and Business sectors. How do we wish to create a healthy economy that creates wealth? What are the factors that create poverty and how do we address these issues as a society?

Areas to be covered will include:

- The Australian Economy
- Measuring economic success or failure
- Participation in the economy
- Employment unemployment
- Living standards
- Government Policy
- The world of business
- Innovation and Invention
- Making Wealth
- World Trends

Learning Tasks

- An Investigation of an issue
- A formal essay
- An exam

Links to VCE Studies

This unit will develop skills and background knowledge that can be extended in the following VCE subjects:

- Economics
- History
- Legal Studies

Wellbeing and the World Around Us

In this unit, students will investigate issues affecting the development of places and their impact on human wellbeing. Students will complete an inquiry into a developing country or region and propose solutions to improving human wellbeing in the area. They will also investigate the causes and consequences of an environmental change and compare examples of these changes from around the world.

Areas to be covered will include:

- Human Wellbeing including life expectancy, the effect that conflict and war has on the way we live and interact with each other. Additionally, you will investigate living standards and global and local economies.
- Environmental Change and Management where you will investigate how we live with our environment and what we can do to manage this, moving into the future.

Learning Tasks

- Conflict and Wellbeing Management Plan
- An inquiry into the causes and consequences to an environmental change
- A folio of class activities

Links to VCE Studies

This unit will develop skills and background knowledge that can be extended in the following VCE subjects:

- Economics
- Geography
- Legal Studies

SCIENCE

Chemistry Of Life

Throughout the semester we will explore some of the chemical reactions that make life possible. Students will study different types of chemical reactions, biological molecules and processes found within the body. This subject is designed to prepare students for VCE Chemistry and Biology.

Collisions And Explosions

What makes a car fast and safe? This subject is designed to prepare students for VCE Chemistry and Physics. The semester long subject covers Forces, Kinematics, and Electrochemistry. Investigations include building mousetrap cars, constructing a survivable car safety cell, and optimising battery performance.

Predators And Psychopaths

Have you ever wondered how cheetahs run so fast? Or what makes a great white shark the perfect hunter? Are you baffled by why some people love pineapple on pizza? Then this subject is for you! This subject covers animal adaptations, evolution, ecosystems and the relationships found within them. The lobes of the brain, the nervous system and disorders affecting personality are also explored. This subject is designed to prepare students for VCE Biology and Psychology.

ELECTIVES

ART

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

You can further develop your artistic skills through the use of a variety of two and three-dimensional media and techniques. Learn new skills in drawing, painting, sculpture, mixed media and composition. Find out about the techniques used by artists both past and present and what inspired them. Use the creative design process and your imagination to create artworks that explore different themes and subjects.

Successful completion of this subject is indicated by the completion of the following class work

- Folio of completed artworks.
- Up to date and neatly presented Visual Diary that contains all notes, drawings of trial designs, techniques and visual references.
- Written work and homework including research assignments and analysis.
- Semester Examination

You are expected to supply basic equipment as per the book list.

This unit is designed to prepare students for VCE Art

Visual Communication Design

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

Students study Visual Communication Design in Year 10 for five sessions a week for one semester.

Students learn the design process, briefs and the three design fields. These include Communication, Industrial and Environmental design and assessment tasks are based around these three fields. Students learn design thinking strategies, technical drawing systems and how to respond to different communication needs.

Concepts taught include:

The Elements and Principles of Design, The Design Process, Technical drawing conventions, observational drawing skills, rendering to depict texture, different drawing methods, visualisation and presentation drawing skills. As well as digital methods.

- Folio of completed drawings
- Up to date and neatly presented Visual Diary that contains notes, drawing exercises, techniques and visual references.
- Written work and homework including research assignments and analysis.

This unit is designed to prepare students for VCE Visual Communication and Design and would be useful for VCE Art and Design and Technology.

Career Pathways:

Graphic Designer, Web/App Designer, Advertising, Video Editor, Photo Journalist, Art/Design Director, Communication Manager and Design Education.

Media Arts

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

This subject is about exploring your own and others' ideas, as both artist and audience. You will communicate your ideas through the use of Media Art forms such as film, photography, news report, advertisement, music video, animation, and/or a combination of these.

You will develop skills and knowledge in understanding and creating meaning and narrative in your own artwork. You will produce and present a folio of work that;

- Includes a range of images/text edited in Photoshop, films/videos that you plan, shoot and edit, and complete tasks such as print advertisements, stop animation and movie trailers.
- Demonstrates your confidence, curiosity, imagination, enjoyment and a personal aesthetic in Media Arts

Successful completion of this subject may involve the following

- Folio of completed photographic and other digital representations
- Visual Diary that contains all notes/annotations, trial images, techniques and visual references
- Written work (research/analysis) that

Drama

In this subject students will explore the development of character/s through both naturalistic and non-naturalistic performance styles. They will work both individually on solo tasks and with other students in group devised ensemble performances.

Students will learn about the history of Drama through the ages and complete a research task exploring specific times such as Greek and Roman Theatre through to modern day practitioners.

Students will have the opportunity to explore other stagecraft elements such as lighting, sound, set design and construction.

Students will be encouraged to participate in excursions to view amateur and professional performances outside of the college.

Outcomes:

1. Solo Performance
2. Ensemble Performance
3. Research Assignment

Exploring The World Of Music

The Year 10 Music program provides a balanced course involving performance, creativity and academic challenge. It enables students to be involved with music as a leisure pursuit, an interest, an academic study in its own right or as a career.

Music is experienced through three learning outcomes:

- Aurally and visually analysing and responding to music
- Reading and writing music
- Creating music through composition and performance
- Music research

The course covers key concepts and skills through the three core learning outcomes. It is envisaged that opportunity to further study music through VCE Performance or Music Style and Composition will be developed. Students who participate in the college's instrumental program are strongly encouraged to elect music studies beyond Year 8.

A sample of the units offered is listed below, but these are continually developed to best meet the needs of the student.

Music in society

Famous composers are real people. We study their works and explore their relevance to today's music while developing our skills. We study the development of popular music from Broadway, rock and roll the protest music of the 60's through to the present day as we discover the part played by music in social justice.

Aurally and visually analyse and respond to music

This enables students to develop their problem solving and communication skills, both oral and written through analysing the various musical styles they see and hear.

Creating music

Students develop their self-confidence, independent learning and teamwork skills through a programme of participation in, and direction of vocal and instrumental performance or music composition. With peer and teacher support students are enabled to explore and express themselves through music.

Music Research

Students develop research techniques and independent learning skills through a selected research topic that explores and describes in detail the role and impact of music in society.

ENGLISH

Literature

In Literature, students are encouraged to think critically and analytically about the world through the lens of contemporary and classic literature. Students will learn how to conduct close analysis through the use of inferencing, annotating and questioning. They will immerse themselves in different contexts and literary theories and write analytically and creatively about different texts.

Assessment:

Assessment in this unit will include close analysis, analytical responses and creative writing.

HUMANITIES

The Contemporary World

The Contemporary World considers the burning global and local issues around us. Students will complete a common case study before selecting a series of issues that they wish to explore!

Areas to be covered will include:

This unit will focus on developing skills related to History, Civics, Economics and Business Studies. These skills will then be applied to local and global issues to seek an in-depth understanding of the world and the forces that create change.

Learning Tasks

- A local case study
- A negotiated investigation on a national issue
- A folio of class exercises

This unit is designed to prepare students for a range of Humanities subjects at VCE.

Reality, knowledge and ethics - Philosophy

Philosophy is the study of reality, knowledge and ethics. Students will connect with various philosophical theories and ideas. Students will engage in rigorous debate exploring philosophical ideas such as: 'What does it mean to live a good life?', 'What is consciousness?' or 'Are we in a matrix?'. In this subject students will gain critical and creative thinking skills that can be applied in other subject areas.

Areas to be covered will include:

This unit will focus on developing skills related critical thinking, understanding complex problems and developing reasoned solutions. Students will be introduced to some famous philosophical dilemmas, individual philosophers and their theories.

Learning Tasks

- A summary and critique of a philosophical theory
- An exploratory essay on a philosophical dilemma.
- A folio of class exercises

LANGUAGES

Ciao Italia!

The VCE (Baccalaureate) has been developed by the VCAA, which provides an additional form of recognition for students who undertake the demands of studying both a **higher level mathematics** and a **language** in the VCE. Students are eligible to receive the VCE (Baccalaureate) if they choose Italian along with English, Maths Methods or Specialist Maths. Tertiary institutions like universities, have indicated that they strongly support initiatives that encourage students to study a language and a higher-level mathematics in VCE.

‘The limits of my language means the limits of my world’. *Ludwig Wittgenstein.*

Prerequisites: Students taking year 10 Italian must have successfully completed second semester of year 9 Italian. Although students still have the option of completing first semester of year 9 Italian if they so wish.

The main focus of this course is to provide students with an appreciation of the modern Italian language, the Italian way of life and prepare students for VCE Italian.

This course covers such enjoyable topics as:

- Personal world
- The World of Work
- Travelling and holidays
- Healthy lifestyles
- Issues affecting young people
- The impact of technology in Today’s world
- Music and Art
- Enter the world of criminal minds of the most infamous serial killers in Italy.

The aim of this course is to develop students’ writing, reading, speaking and listening skills through a variety of activities such as: exploring different text types, exposure to a wide range of vocabulary, performing role-plays, listening to spoken language (songs, interviews) and watching films (fiction and nonfiction) related to the Italian lifestyle. In addition, students will have an opportunity to participate in interactive games to assist learning, cooking of Italian food and excursions.

There is the possibility to participate in a study tour to Italy and visit a high school, which is a valuable opportunity for students to immerse themselves in the country’s language and culture.

This full-year elective is essential for students wishing to study Italian at VCE. Languages studies at VCE receive bonus points in a student’s total VCE ATAR score.

PHYSICAL EDUCATION AND HEALTH

Developing Health

This subject allows students to describe the dimensions of, and the interrelationships within and between, youth health and individual human development, and analyse the health status of Australia's youth using appropriate measurements. Furthermore, students develop an understanding of the health status of Australians by investigating the health of population groups in Australia. Students analyse how determinants of health, including the physical environment, biological, behavioural and social, contribute to variations in health status. Also, students examine the National Health Priority Areas and analyse initiatives designed to promote health relevant to the NHPAs.

The students will also look at the physical, emotional and social development within each stage of the lifespan and analyse the appropriate nutrition to live a healthy life.

Bodies in Motion

In this subject, students will examine the biomechanical and skill acquisition principles that can be applied when analysing and improving movement skills used in physical activity and sport. Through an involvement in a variety of practical activities, students investigate and analyse movements to develop an understanding of how the correct application of biomechanical and skill acquisition principles leads to greater efficiency and accuracy in movement skills.

Unit topics:

- Biomechanics
- Fatigue and recovery
- Training methods
- Skill acquisition

To successfully complete this unit students are expected to:

- Participate positively in group activities and contribute to discussions
- Investigate areas, and undertake tasks, related to health and wellbeing
- Maintain a class workbook
- Demonstrate a satisfactory understanding of unit topics through set class work, knowledge tests and practical application
-

Safe Driver Education

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

The Safe Driving Education Program is aimed at developing an understanding of the physical, social, psychological, moral and legal factors, which influence the individual's behaviour in a road traffic environment.

The content of the course includes road laws, media issues regarding responsibility of the licensed driver on the road, basic car maintenance, road craft skills*, the transport network, purchasing a car, positive and negative risk-taking, consuming alcohol and road safety, basic first aid as well as road trauma and its causes.

**The practical component will be off campus and will be a compulsory section of the course. To ensure a placement in this subject is locked in, payment of this cost (or alternative arrangements made with the College Business Manager) must be completed before the start of the semester.*

On receipt of the elective fee, a 40 page pocket book will be issued at the start of the semester.

Class and Practical Work Requirements

- Maintain a work book of all theory classes
- Complete set assignments, which display an understanding of the major topics, related to driving
- Display a reasonable understanding of the road laws from the Victorian Road traffic handbook: "Road to Solo Driving"
- Participate in the practical driving lessons (off campus with a private provider)

VET CERTIFICATE III Sport & Recreation

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

VCE VET Sport and Recreation is studied at Year 10 for the whole year. Completion of the Certificate III Sport and Recreation is achieved at Year 11 across the whole year.

This course is classroom based with a student workbook and involves multiple off site excursions incorporating canoe, rock climb, ski and bushwalk experiences.

VET Sport and Recreation provides students with the opportunity to acquire and develop the skills, knowledge and confidence to work in the areas of sport and recreation and fitness. Leadership, organisational and specialist activity skills such as outdoor recreation and fitness will be developed throughout the program.

Course Objectives

This qualification provides the skills and knowledge for an individual wishing to work in the sport and recreation industry in areas such as maintaining grounds and playing surfaces, providing customer service, facilities maintenance and administrative assistance. This qualification also provides pathways for multi skilled roles which combine a range of activities required to support the operation of facilities such as fitness centres, outdoor sporting grounds or complexes, aquatic centres and community recreation centres. You will gain the skills to deliver a sport and recreation service to clients in a recreation facility, learn about event management and how to deal with conflict and have the ability to put these skills into practice through on the job practice.

Pathways

This qualification could allow students to undertake further training or study to enable them to be employed in roles such as outdoor recreation, personal training, gym instruction, event promotions, facilities management and coaching.

Contribution to the VCE

Upon successful completion of the VCE VET Sport and Recreation program students will be eligible for up to four units of credit towards their VCE: Two units at Units 1 and 2, and a Units 3 and 4 sequence. The program also may contribute to VCAL at the Foundation, Intermediate or Senior levels.

ATAR Contribution

Students wishing to receive an ATAR contribution for the Units 3 & 4 sequence must undertake scored assessment for the purposes of gaining a study score. This study score can contribute directly to the primary four or as a fifth or sixth study.

TECHNOLOGY

3D Product Design Printing.

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

Students will investigate specific substrates and 3D product design in a virtual environment. The product has three dimensions (height, width, depth). The result is a digital prototype of your product, one you can explore in detail, validating their prototypes to perfection before mass production.

3D printing is beginning to touch aspects of our everyday life, sometimes in ways most of us aren't even noticing. It's being used in the medical industry, in automobiles, industrial manufacturing, for prototyping, and for end-use parts in all manner of industries. The computer software used in this class is utilised in the development of video games, 3D applications, animated films, TV series, and any visual effects. Watch how your initial ideas come alive on the screen and then to your hand, as a prototype for assessment and evaluation.

Where can we use 3D Product Design?

- Prototyping. Often 3D models are used to create a product prototype to evaluate its design concept, details and manufacturing costs.
- Precise Measurements.
- All-round View.
- Promotion and Marketing.
- Production.

The first stage of this course allows the students to be creative in thought with the traditional style of ideas and brainstorming. The students will learn to creatively think by:

- Defining the problem
- Research
- Ideation Sketches
- Generate solutions
- Model / Prototype solution using Maya 2019 Autodesk software.
- Print in 3D using .STL files
- Test
- Evaluate
- Present your solution.

The student will produce a detailed portfolio with all ideas drawing and 3D captures including a detailed evaluation of their processes. They will need a design display book for presentation of their work.

FASHION by DESIGN

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

In this elective, students will take on the role of a **Textile/Fashion designer**. Students undertake the Product Design Process by **INVESTIGATING, RESEARCHING** and **GENERATING** ideas, **PRODUCING** high quality products and **EVALUATING** their work. Students are required to produce a design folio. They will be assessed on their practical and theory work.

The three major practical units explored during the semester are:

- **RECYCLED FASHION:** Students redesign a pre-loved or recycled garment and decorate it producing a contemporary, unique wearable outfit or decorative product.
- **PRODUCT DESIGN & CONSTRUCTION:** Students learn to construct an outfit using a commercial pattern.
- **TEXTILE PRINTING:** Students are exposed to printing techniques

Throughout this elective, students will be exposed to **garment construction, fashion illustration, printing** and **decorative** techniques and processes. Students are encouraged to work on independent projects later in the semester when they **choose** what to make. Students are expected to have their own sewing kit. They may be required to purchase their own fabric for specific products. This elective prepares students who wish to study VCE Product Design and Technology: Textiles

Food Technology

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

In this subject students will be gaining and developing knowledge that they have previously learnt in the junior years of food. Each week students will participate in one double practical session and three sessions of theory.

The class will journey around the world, exploring the cuisines of other nations. An emphasis will be placed on cuisines that contribute to the multicultural mix that makes up Australia's own food patterns. Students will investigate café culture with an emphasis on food styling and the design process, and they will expand their skills and knowledge of sensory analysis. A third focus of the subject is healthy eating and nutrition, creating and adapting healthy family meals.

CAFÉ CULTURE

In this subject, students complete a range of practical activities, budgeting and planning of meals, meal structures and catering options of all parts of a menu. Eventually planning, conducting and submitting work requirements in small groups based on a design brief of running a Café, suitable for savoury or sweet menu options.

Successful completion of this subject may involve the following: practical test, design assessment X 2

Wood & Metal

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

In this elective, students take on the role of a product designer.

Students strengthen and develop their skills in using wood and metal. Students will refine their use of hand tools and strengthen their skills in the safe use of machinery.

The opportunity is there to produce a range of functional products. This elective involves a theory and practical component. Students are expected to maintain a design folio and are encouraged to use their creativity when using a variety of materials. Research and design even involves the use of computer aided drawing programs. The folio explores the product design process through investigating, designing, producing and evaluating.

Class work

- Students will be encouraged to work with wood and metal.
- A variety of wood and metal related techniques will be learned.
- Students will learn to demonstrate the correct and safe usage of hand power tools and machinery.
- When working with metal, they will be exposed to advanced metal fastening and fabrication techniques (i.e. welding, spot welding, etc)
- Students are expected to maintain an A3 design folio and complete written tasks as part of their overall assessment

This elective prepares students who wish to undertake VCE Product Design and Technology: (Materials: Wood & Metal).

Advanced Electronics & Robotics

Electronics and robotics are now a required skill set in product, industrial and manufacturing design in small niche one person startups all the way through to massive scaled manufacturing plants like Tesla. This elective focuses on extending student knowledge of electronics and robotics through the design, modelling, fabrication and testing of an integrated system such as the retro arcade machine.

Arcade machines range from simple robotic skill testers to retro pong and space invader platforms. Designing and building a machine is large task and as such students work in teams to create their arcade machine. The process starts with investigation and research into present and past arcade games then shifts into a brainstorming an original arcade title.

Teams move on to design, build and test their arcade machines using the schools 3D printers, laser cutter and wood machining tools. Each student creates a design portfolio blog on the schools internet that is constantly updated as the project progresses.

Topics covered

- Interface Electronics
- Electro Mechanical interfacing
- Servo Motors and Movement
- Microcontrollers (Raspberry Pi & Pico)
- Python programming language
- Game programming Loops

VET Certificate III – Screen and Media

This elective has a material levy. This levy is passed by School Council each year and will be on the levy sheet at the end of the year.

Units 1 and 2 cover core game development skills in dealing with game engines. Students design and build a game of their own, including assets, puzzles and AI.

In this subject students are introduced to the game design pipeline. They learn about the key elements required to create a fully functioning game in the Unreal Development Kit (UE4). They complete design documents including game flow, level concepts and storyboards and incorporate feedback from teachers and peers. Students develop their skills in the use of Photoshop, Flash and HTML, which are required for creating in-game menus and heads up displays. This unit also covers OH&S in a game design environment.

Units 3 and 4 students extend and develop their skills to include third person games, complex scripting and multiple levels.

Contribution to the VCE

A study score is available for this program. To be eligible students must:

- achieve all the units of competence designated as the scored Units 3 and 4 sequence
- be assessed in accordance with the tools and procedures specified by the VCAA
- undertake an end-of-year examination.

Auspicing

The Diamond Valley College VET Screen and Media Games Development program is auspiced by the Academy of Interactive Entertainment, a Registered Training Organisation who monitor the program to ensure it complies with national standards. Trainers from AIE will visit the school at regular intervals, and will also organise visits to the Academy. Students enrolled in these courses will receive their qualification from AIE, and will be offered the opportunity to enrol in post-secondary courses that build on their school experience.

Pathways

This qualification could allow students to undertake further training or study to enable them to be employed in roles such as games developers, animators or other related IT occupations.

2023 Year 10 Course Selection

Student Name:	Home Group (2022):
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Section One – Information

1. Before filling out this sheet make sure you **READ Year 10 Course Handbook** carefully at <https://www.dvallcoll.vic.edu.au/curriculum/>
2. Every student will be emailed a unique EDVAL Login to enter their subject selections. To lodge your selections go to: <https://my.edval.education>

Section Two – Compulsory Subjects

English (2 Units) <input type="checkbox"/> English <input type="checkbox"/> HAP English	Maths (2 Units) <input type="checkbox"/> Mathematics <input type="checkbox"/> Advanced Mathematics
Health and Physical Education- Select 1 (one) <input type="checkbox"/> Physical Education & Health (1 Semester) OR <input type="checkbox"/> Year 10 Sports Academy (all year) <i>(Note: if you select this option then you will only pick 7 electives below)</i>	Science - Select 1 (one) <input type="checkbox"/> Collisions and Explosions (1 unit) <input type="checkbox"/> Chemistry of Life (1 unit) <input type="checkbox"/> Predators and Psychopaths (1 unit)
Humanities - Select 1 (one) <input type="checkbox"/> Crime, Punishment & Politics (1 unit) <input type="checkbox"/> Modern Times (1 unit) <input type="checkbox"/> Poverty and Wealth (1 unit) <input type="checkbox"/> Wellbeing and the World Around Us (1 unit)	

Section Three- Electives

You must choose seven (8) electives (5 Electives and 3 Reserve Subjects) from the table below:

- You cannot choose more than 2 subjects from a Domain and must select from at least 3 Domains
- Number your preferences 1 – 7 with 1 being your most preferred subject choice
- You may include a Year 11 subject (2 units) as part of your elective choice but you must meet the selection criteria. You must submit your application for advance placement form to the Senior Sub School Leader

Please Note: Reserve classes will be used is a class is not offered due to insufficient numbers. Please number your reserves 6, 7 & 8

Art (Each subject = 1 unit)	Humanities (Each subject – 1 unit)	Technologies (Each subject = 1 unit)
<input type="checkbox"/> Art	<input type="checkbox"/> Crime, Punishment & Politics	<input type="checkbox"/> 3D Product Design Printing
<input type="checkbox"/> Visual Comm Design	<input type="checkbox"/> Modern Times	<input type="checkbox"/> VET: Cert II Interactive Digital Media
<input type="checkbox"/> Drama	<input type="checkbox"/> Poverty and Wealth	<input type="checkbox"/> Food Technology OR (Cannot do both) <input type="checkbox"/> Café Culture
<input type="checkbox"/> Exploring the World of Music	<input type="checkbox"/> Wellbeing & World Around	<input type="checkbox"/> Fashion By Design
<input type="checkbox"/> Media Arts	<input type="checkbox"/> Philosophy	<input type="checkbox"/> Wood & Metal
Languages (2 units)	Inquiry Subjects (1 unit)	<input type="checkbox"/> Advanced Electronics & Robotics
<input type="checkbox"/> Ciao Italia!	<input type="checkbox"/> Inquiry: The Contemporary World	<input type="checkbox"/> Digital Technology
	<input type="checkbox"/> Inquiry: Global Leadership	
Science (Each subject – 1 unit)	English (Each subject – 1 unit)	
<input type="checkbox"/> Collisions & Explosions	<input type="checkbox"/> Literature	
<input type="checkbox"/> Chemistry of Life	Physical Education	
<input type="checkbox"/> Predators and Psychopaths	<input type="checkbox"/> Year 10 Safe Driver Education (1 Unit)	
	<input type="checkbox"/> Bodies In Motion	
	<input type="checkbox"/> Developing Health	

3. Closing date for Subject Selections: **Friday 5th August 2022. Subjects need to be selected totalling 15 Units (12 units for preferred subjects + 3 for Reserve Subjects)**

Section Four – Expression of Interest for Advance Placement

Did you submit your expression of interest for a Year 11 subject in 2022?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If you answered Yes , please read the next section carefully		

1. You must submit your **Application for Advance Placement** to the Senior Sub School Leader by Friday 22nd July 2022. Application Forms can be collected from the Year 9 Co – Ordinator.
2. **Please tick which subjects you are interested in.**
3. **These subjects are for the WHOLE YEAR. Subjects and will count for 2 units**
4. **You can only choose one (1) Unit 1 & 2 Subject.**

<input type="checkbox"/> Unit 1 & 2 Psychology	<input type="checkbox"/> VET: Cert III Screen & Media Yr 1
<input type="checkbox"/> Unit 1 & 2 Applied Computing	<input type="checkbox"/> Unit 1 & 2 Food Studies
<input type="checkbox"/> Unit 1 & 2 Physical Education	<input type="checkbox"/> VET: Cert III Sport & Recreation Year 1
<input type="checkbox"/> Unit 1 & 2 History: 20 th Century	<input type="checkbox"/> Unit 1 & 2 Legal Studies
<input type="checkbox"/> Unit 1 & 2 Literature	<input type="checkbox"/> Unit 1 & 2 Music Performance
<input type="checkbox"/> Unit 1 & 2 Biology	<input type="checkbox"/> Unit 1 & 2 Health & Human Development
<input type="checkbox"/> Unit 1 & 2 Business Management	<input type="checkbox"/> Unit 1 & 2 Drama
<input type="checkbox"/> Unit 1 & 2 Art	<input type="checkbox"/> Unit 1 & 2 Visual Communications
<input type="checkbox"/> Unit 1 & 2 Product Design & Tech : Textiles	<input type="checkbox"/> Unit 1 & 2 Product Design & Tech : Materials
<input type="checkbox"/> Unit 1 & 2 General Maths	<input type="checkbox"/> VET Cert III Sport & Recreation Year 1 (2 Units)

Closing date for Subject Selections: **Friday 5th August 2022**