



Carrum Downs
Secondary College

2021
YEAR 10

Course Guide

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INTRODUCTION

It is the goal of Carrum Downs Secondary College that all students have a successful pathway to university, TAFE or full time employment. It is essential that students transitioning to the senior years plan carefully and make informed decisions that enable them to fulfil both academic and personal goals.

The best advice is to choose studies:

- which the student enjoys
- in which the student is likely to achieve success
- that the student may need for future study (prerequisites) or work
- which maintain and develop the student's special skills and talents

CDSK is committed to supporting you and your child as they commence the next stage of their career journey. Throughout the year, students have engaged in careers focused assemblies, the Exploring Options Expo, the Year 9 Careers Fair and numerous learning activities conducted during Pastoral Care that have prepared them to consider options for 2021. The pinnacle of this process is to select specific Year 10 pathways and subjects, with the support of course counselling interviews.

IMPORTANT DATES

Parent Information Session (Online)	Thursday 11 th June 2020
Receive Edval Code and Selections Open	Thursday 11 th June 2020
Course Selection Interviews (Online - Bookings through Compass essential)	Monday 22 nd June 2020 Tuesday 23 rd June 2020
Edval Subject Selection Closes	Tuesday 23 rd June 2020
Confirmation of Courses	Mid - Late Term 3
Elective Charges Payment Due	1 st Day of Rollover – 30 th November 2020

YEAR 10 CURRICULUM STRUCTURE

The focus of our year 10 program is around providing students with as much choice as possible. The College aims to provide an enjoyable, relevant, broad and rigorous teaching and learning program that provides both preparation for Year 11 and 12 as well as the training and guidance for future careers. During Year 10, there is an opportunity for students to study a VCE subject or commence a School Based Apprenticeship and Training (SBAT) course.

All mainstream year 10 students must complete subjects from the following learning areas:

- English (full year)
- Maths (full year)
- Core Humanities (one semester)
- Science (one semester)
- Physical Education / Health (one semester)
- Pastoral Care (full year)

In a standard Year 10 course (i.e. one without a VCE subject), students will then have **five** elective subjects to select. Students are encouraged to consider their future pathways and select subjects tailored to their interests and supportive of their future goals.

SENIOR PATHWAYS

PREPARING FOR SENIOR PATHWAYS

Subject selection at year 10 is all about preparing for possible future pathways and exploring different subjects and to help students make informed pathway decisions about their senior pathways. Whilst students entering year 10 do not yet need to decide their senior pathway, it is worth keeping these future options in mind as they are selecting their courses for year 10.

VCE

The *Victorian Certificate of Education* (VCE) is a certificate that recognises the successful completion of secondary education and provides pathways to further study at university, Technical and Further Education (TAFE) and to the world of work. Students entering Year 10 may be eligible to begin their VCE early by studying one VCE subject (NB- requirements apply for this. See following section in this handbook).

VCAL

The *Victorian Certificate of Applied Learning* (VCAL) is a certificate that recognises the successful completion of secondary education. VCAL provides a pathway to TAFE, an apprenticeship, university or employment linked to training. It gives students practical work-related experience, as well as literacy and numeracy skills and the opportunity to build personal skills that are important for life and work. Although it is important to be aware of this pathway, VCAL is currently only offered to Year 11 and 12 students at CDSC.

If a student begins their studies in VCE or VCAL and then wishes to change enrolment to the other certificate, units satisfactorily completed in VCE or VCAL can be used to provide credit towards the new course of study.

VET

As part of VCE courses a *Vocational Education and Training* (VET) subject can be chosen. This means that the student will be undertaking training in a specific vocational area, for instance hospitality, agriculture, information technology or engineering.

As part of a VCAL program it is compulsory to elect a VET subject. A VET program contributes to the VCE or VCAL in the same way that other studies contribute, however only scored VET programs with exams contribute towards an ATAR (Australian Tertiary Admission Rank) score. All VET subjects are discussed in more detail later in this booklet.

Although it is important to be aware of VET, it is currently only offered to Year 11 and 12 students at CDSC.

SBAT

Another way for vocational training to contribute towards VCE or VCAL is through a *School Based Apprenticeship or Traineeship* (SBAT) course which is either a part-time apprenticeship or part-time traineeship program. The student's timetable is tailored to ensure that there is a suitable mix of necessary core subjects as well as an ability to accommodate the requirements of the SBAT.

YEAR 10 STANDARD COURSE SELECTION

SEMESTER 1	SEMESTER 2
<p style="text-align: center;"><u>ENGLISH (Choose 1)</u> Core English Advanced English Everyday English 8 periods per fortnight</p>	
<p style="text-align: center;"><u>MATHS (Choose 1)</u> Core Mathematics Advanced Mathematics Everyday Mathematics 8 periods per fortnight</p>	
<p style="text-align: center;"><u>SCIENCE (Choose at least 1)</u> Biology and Environmental Studies Chemistry Physics General Science 8 periods per fortnight</p>	<p style="text-align: center;"><u>HUMANITIES</u> 8 periods per fortnight</p>
<p style="text-align: center;"><u>HEALTH & PHYSICAL EDUCATION</u> 8 periods per fortnight</p>	<p style="text-align: center;"><u>ELECTIVE 1</u> 8 periods per fortnight</p>
<p style="text-align: center;"><u>ELECTIVE 2</u> 8 periods per fortnight</p>	<p style="text-align: center;"><u>ELECTIVE 3</u> 8 periods per fortnight</p>
<p style="text-align: center;"><u>ELECTIVE 4</u> 8 periods per fortnight</p>	<p style="text-align: center;"><u>ELECTIVE 5</u> 8 periods per fortnight</p>
<p style="text-align: center;"><u>PASTORAL CARE</u> 2 periods per fortnight</p>	

YEAR 10 SUBJECTS & COSTS

ENGLISH / LOTE	COST	COST DESCRIPTION
Core English (<i>Full year</i>)	No cost	
Advanced English (<i>Full year</i>)		
Everyday English (<i>Full year</i>)		
Spanish (<i>Full year</i>)		
Japanese (<i>Full year</i>)		
MATHS		
Core Mathematics (<i>Full year</i>)	No cost	
Advanced Mathematics (<i>Full year</i>)		
Everyday Mathematics (<i>Full year</i>)		
HUMANITIES		
Core Humanities	No cost	
History's Mysteries		
Economics		
Global Issues		
Legal Studies	\$15.00	- Excursion contribution
VCE Business Management Unit 1&2	\$40.00	- Provision of study & exam packs
VCE Legal Studies Unit 1&2	\$40.00	- Excursion costs
VCE Geography Unit 1&2	\$40.00	- \$20.00 excursion provision - \$20.00 provision of study & exam packs
SCIENCE		
Biology and Environmental Science	No cost	
Chemistry		
Physics		
General Science		
Psychology		
VCE Biology Units 1&2	\$50.00	- Provision of study & exam packs - Specialised equipment
VCE Psychology Units 1&2	\$60.00	- Provision of study & exam packs - Edrolo access
HEALTH & PHYSICAL EDUCATION		
Core Health & Physical Education	No cost	
All Sorts of Team Sports		
Advanced Health & Physical Education	\$50.00	- Excursion costs
Fitness and Performance	\$20.00	- Incursion contribution
Health & Human Development	\$20.00	- Reality babies
Outdoor Education	\$330.00	- Camps and excursions costs
VCE Health & Human Development Unit 1&2	\$40.00	- Provision of study & exam packs

THE ARTS		
Drama	No cost	
Music Performance & Investigation		
Dance		
Media	\$50.00	- Media technology including cameras and high quality photo paper
Studio Arts	\$60.00	- \$40.00 high quality materials inc. etching and printing supplies - \$20.00 excursion contribution
Visual Communication Design	\$50.00	- \$30.00 drafting equipment and modelling supplies - \$20.00 excursion contribution
TECHNOLOGY		
Design & Technology - Wood	\$110.00	- Timber costs
Food Technology	\$150.00	- Food costs
Computing (ICT)	\$50.00	- \$30.00 programming resources - \$20.00 excursion costs
Robotics	\$60.00	- \$40.00 robotics components, specialised software and 3D printing - \$20.00 excursion costs
Multimedia	\$15.00	- Access to additional software programs
Cafe	\$50.00	- Cooking challenge food costs

VCE ACCELERATED STUDY IN YEAR 10

Students undertaking a standard Year 10 course have the option to choose a Year 11 subject. Students who do this will aim to finish their Year 12 subject when they complete Year 11. There are many benefits to accelerating students into VCE studies early, however students must meet minimum academic pre-requisites and be willing to meet the work expectations required.

Some of the benefits of undertaking a VCE accelerated study

- Having a 6th Unit 3/4 subject to include in your ATAR score
- Having the experience of studying a VCE subject a year early rather than entering a full VCE program, including the experience of SACs (School Assessed Coursework) exams
- Challenging yourself academically

Expectations of students undertaking a VCE accelerated study

- Being prepared to commit between 3-5 hours per week for study and homework
- Attending all lessons, with the only exception being due to illness (medical certificate)
- Be organised in your approach to learning and stay up to date with work outcomes

Year 10 Accelerated Study is accompanied by a huge commitment and an increased workload for students, therefore it is only recommended to students who meet specific criteria. Ultimately, students will be learning 12 months ahead of the expected Year 10 level. This will be discussed during the Course Selection Interviews and an application form must be required for students seeking to undertake an accelerated study.

Subjects Offered for accelerated study to year 10s with their pre-requisites

Unit 1 Accelerated Study	Relevant Year 9 Classes	Required Grades from Assessment	Other Requirements
Biology	English Science	CAT results of at least year 9 standard for mid-year – Vic Curric Level 8.5	Most learning behaviours from Semester 1 Progress report at excellent or very good and Outstanding attendance of higher than 95%
Business Management	English		
Geography	English Humanities		
Health and Human Development	English Health		
Legal Studies	English Humanities		
Psychology	English Science		

Considerations for accelerated study

- It is not guaranteed that all students who apply for accelerated study will be offered a place in their accelerated program – places are limited
- There is an application form that must be submitted by students considering an accelerated study. These must be submitted to Mandy in the Careers office and preference will be given to timely applications.

ADVANCED STUDY IN ENGLISH AND MATHEMATICS

As part of our core program students may elect to undertake the subjects of Advanced English and/or Advanced Mathematics. These subjects are aimed at extending students who are already achieving strong results and who are looking for that extra challenge when it comes to their core studies. It is important to note that Year 10 Advanced Mathematics is a pre-requisite for Year 11 Mathematical Methods – meaning that any student considering a high level Science or Mathematics pathway involving the subject Mathematical Methods must undertake Advanced Mathematics.

Some of the benefits of undertaking an advanced subject

- More dedicated time focused on the more challenging aspects of the chosen study
- Higher level academic focus will prepare students well for their future VCE studies
- Advanced Mathematics is a pre-requisite for Year 11 Mathematical Methods

Expectations of students undertaking a year 10 advanced study

- Being prepared to commit between 2-3 hours per week for study and homework per subject
- Attending all lessons, with the only exception being due to illness (medical certificate)
- Be organised in your approach to learning and stay up to date with work outcomes

Year 10 Advanced Subjects have an increased workload and academic level for students compared to our standard core program, therefore it is only recommended to students who meet *either* 1 of the 2 specific criteria. This will be discussed during the Course Selection Interviews and an application form must be required for students seeking to undertake an advanced study.

Subjects Offered for accelerated study to year 10s with their pre-requisite criteria

Note that students must meet 1 of the following 2 criteria

Advanced Study	Relevant Year 9 Class	Criteria 1	Criteria 2
Advanced English	English	CAT results above year 9 standard for mid-year – Victorian Curriculum Level 9.0 or above	CAT results of at least year 9 standard for mid-year – Victorian Curriculum Level 8.5
Advanced Mathematics	Mathematics		and Most learning behaviours from Semester 1 Progress report at excellent or very good

Considerations for accelerated study

- It is not guaranteed that all students who apply for advanced study will be offered a place in their accelerated program – places are limited
- There is no guarantee that once a student has commenced an advanced study that they will be able to “drop back” to a core class at a later time if they change their mind.
- There is an application form that must be submitted by students considering an advanced study. These must be submitted to Mandy in the Careers office and preference will be given to timely applications.

YEAR 10 APPLIED LEARNING PATHWAY

The Applied Learning Pathway is an alternative to the mainstream pathway that provides students entering Year 10 the opportunity to engage in applied learning which will be practical in nature and provide an opportunity to begin vocational studies.

The pathway has been created to cater for students intending to engage in a VCAL pathway in Year 11 and 12. There are four core subjects that all Applied Learning Pathway students complete together:

1) Applied Literacy

Students will study selected texts that will link to the context of applied learning. This class will develop communication techniques, written and reading styles.

2) Applied Numeracy

Students will study applied numeracy to support their interests in the area of trades and everyday mathematics using a variety of tasks and activities.

3) Future Work Skills

A program developed to support students thinking about what makes an effective worker. Students will complete hands-on projects they will complete throughout the year.

A program to support students to develop in the area of personal skills such as:

- Social responsibility
- Civic and civil responsibility
- Improved self-confidence and self-esteem
- The development of self
- Valuing civic participation in a democratic society
- Building community

4) Applied Physical Education

Applied Physical Education is the health and sport program that we run as part of our Applied Learning Program. It is essential that students are engaged in at least 100 minutes of physical activity per week, and students will complete units that study different aspects of sport and movement.

For the Year 10 Applied Learning Pathway, students have two vocational options from which to choose. These are the Parks and Gardens SBAT or Kitchen Operations VET. Both of these provide fully recognized qualifications and are conducted on-site. These qualifications are undertaken on a Wednesday and Friday, and students do not have normal classes on these days.

Elective Choices

Students in the Applied Learning Pathway will still be able to select 1 elective per semester from a list of elective subjects. The list of suitable electives will be made available to applied Learning students in Term 3. They may miss some of these classes due to their commitments to the SBAT or VET.

YEAR 10 APPLIED LEARNING PATHWAY

SAMPLE WEEKLY TIMETABLE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
PERIOD 1	Elective 1	Elective 1	SBAT or VET	Applied Numeracy	SBAT or Work Placement
PERIOD 2	Pastoral	Elective 1		Applied Physical Education	
RECESS					
PERIOD 3	Applied Numeracy	Future Work Skills		Elective 1	
PERIOD 4	Applied Numeracy	Applied Literacy		Applied Literacy	
LUNCH					
PERIOD 5	Applied Literacy	Applied Physical Education		Future Work Skills	

YEAR 10 APPLIED LEARNING PATHWAY SUBJECTS & COSTS

CORE	COST	COST DESCRIPTION
Applied Literacy (<i>Full year</i>)	\$250.00	- \$150.00 incursions and excursions
Applied Numeracy (<i>Full year</i>)		- \$50.00 curriculum consumables
Future Work Skills (<i>Full year</i>)		- \$50.00 project supplies
Applied Physical Education (<i>Full year</i>)		
VOCATIONAL TRAINING		
VET Kitchen Operations Year 1	\$450.00	- \$250.00 food costs - \$50.00 excursions cost - \$100.00 uniform - \$50.00 textbook/workbook
SBAT Parks and Gardens	No cost	

YEAR 10 APPLIED LEARNING PATHWAY

FORMAL TRAINING QUALIFICATIONS

OPTION 1: Parks and Gardens SBAT

For several years Carrum Downs Secondary College has successfully provided students with access to the SBAT in Certificate II in Parks and Gardens on campus.

This course has been specifically designed to provide an introduction to the overall skills and knowledge required to undertake a career working in a Parks and Gardens setting. The parks and gardens industry expects this qualification to be achieved to meet job outcomes at this level.

In February 2021, students enrolled in the Year 10 Applied Learning Pathway will commence employment as Certificate II Trainees in Parks and Gardens; the work/training days at Carrum Downs Secondary College will be on the Wednesday and Friday of each week. Each day will have both a 3.5 hour work component and a 3.0 hour Training Component.

In order to successfully undertake the qualification candidates need to possess English language and literacy competence that will enable them to provide clear information, ask questions, listen to and understand instructions and communicate effectively with others.

Pathways

Employment in roles such as Assistant Gardener or Grounds person.

Upon successful completion, further training pathways may include Certificate III in Parks and Gardens or Certificate III in Horticulture. Participants assessed as competent in all units receive a Nationally recognised qualification.

OPTION 2: Kitchen Operations VET

Kitchen Operations is an introductory course that prepares students with a range of cooking and food preparation skills while introducing them to OH&S requirements in the workplace.

Throughout the course students will learn how to follow hygiene procedures, present and prepare simple dishes and take part in creating a restaurant service here at school.

Assessments are both practical and theory focused. Practical assessments occurring in the kitchen and restaurant settings and theory assessments consisting of both written and online assignments.

Kitchen Operations is delivered 1 day a week in our kitchen facilities with students undertaking work placement in industry to apply the skills they are acquiring.

On completion students will receive a Certificate II in Kitchen operations.

Pathways

This certificate can lead to other qualifications including CERT III & IV in Hospitality and can be used to source employment in the Hospitality industry.

BRING YOUR OWN DEVICE (BYOD)

The vision for Carrum Downs Secondary College is one in which all students can access the necessary ICT tools to be successful learners within the 21st century. The use of technology to support student learning needs to be multi-faceted, flexible and adaptive in approach, and the various devices utilised should enable students to have continual access to relevant information and knowledge whenever required, and perform a variety of other functions necessary to support their learning.

It is necessary for all students to have access to a personal netbook device in all of their classes through our **Bring Your Own Device (BYOD) program**. Students must have access to their own personal netbook device and are responsible for bringing it to the college each day. Students bringing their device will be able to login to our college network allowing them access to the internet, Office 365 software, any other subject specific software they may need.

There are many benefits to learning for students who bring their own device;

- Access at all times to our Compass portal through which students can access learning resources, become up to date with daily organisational changes, submit work and communicate with teachers
- Access to learning software such as digital textbooks and Edrolo (Yr 12 only)
- Capacity to bring the resources and information from the internet into their learning environment at any time
- Easy transfer of school work between school and home
- Opportunities to collaborate in their learning using ICT resources through an ever developing list of platforms including (but not limited to) Google Docs, Padlet, Kahoot just to name a few
- Greater independence in managing their own learning and better preparedness for either further study or work.
- Less interruption to learning due to the current delays associated with accessing technology in class via our netbook trolleys

Whilst there are minimum requirements for devices most netbooks with permanent keyboards will comply with our requirements.

If you do not yet own a suitable device, please consider the following options:

- Purchase or lease a device outright from a retail provider – our Department of Education approved supplier is Edunet, however any provider or retail store would stock suitable devices
- Obtain a school assisted device through application to our Business Manager

Further information is available from our front office or the IT office.

LEARNING AREA SUBJECT DESCRIPTIONS

MATHEMATICS

Note: Students must select only 1 of the following 3 full year Mathematics subjects

Core Mathematics

Our standard Maths course designed to prepare students for either VCE General Mathematics or VCAL senior pathways. Units studied may include:

- Trigonometry
- Consumer Maths
- Linear Algebra
- Measurement
- Geometry
- Probability
- Statistics

Advanced Mathematics

This subject has minimum academic entrance requirements

A more challenging Mathematics course designed for students who are working at or above the Victorian curriculum standard. This subject is a pre-requisite for students intending to study VCE Mathematical Methods as part of a VCE pathway. Units studied may include:

- Linear Relations
- Graphing Parabolas
- Surds and Indices
- Quadratic Equations
- Statistics
- Financial Maths
- Matrices

Everyday Mathematics

A practical Mathematics subject focused around developing skills for the workplace and life. This pathway is designed for students intending to follow a VCAL pathway, or for students who do not want to undertake a mathematics at VCE. Units studied may include:

- Measurement
- Geometry
- Financial Mathematics
- Probability
- Problem Solving Skills

ENGLISH

Note: Students must select only 1 of the following 3 full year English subjects

Core English

Our standard English course designed to prepare students for either VCE or VCAL senior pathways
Units studied may include:

- Short Stories
- Close study of text
- The Writer's Craft
- Poetry
- Shakespeare
- Comparative Texts
- Language Analysis
- Speech Delivery
- Media/Multimodal

Advanced English

This subject has minimum academic entrance requirements

A more challenging English course designed for students who are working at or above the Victorian curriculum standard, preparing students for a VCE pathway. Units studied may include:

- Close study of multiple texts
- The Writer's Craft
- Poetry
- Shakespeare
- Comparative Texts
- Language Analysis
- Speech Analysis and Delivery
- Media/Multimodal

Everyday English

A practical English subject focused around developing Literacy skills for the workplace and life. This pathway is designed for students intending to follow a VCAL pathway. Units studied may include:

- Oral language
- Literacy skills in the workplace
- Text analysis
- Film analysis

ENGLISH / LOTE

Note: Students considering a VCE Language pathway must select it as a year 10 elective.

Spanish

A full year subject that takes the place of 2 electives. Students study Spanish language and culture. This subject is a pre-requisite for any students wishing to study Spanish in VCE. Units studied may include:

- Culture and communication skills
- Connections between language and cultural expressions
- Spanish poetry
- Literature and films
- Conversations with our sister school in Spain

Japanese

A full year subject that takes the place of 2 electives. Students study Japanese language and culture. This subject is a pre-requisite for any students wishing to study Japanese in VCE. Units studied may include:

- Culture and communication skills
- Connections between language and cultural expressions
- Japanese scripts
- Literature and films
- Conversations with our sister school in Japan

HUMANITIES

Note: All students undertake core Humanities. Students considering a VCE Humanities pathway should consider selecting 2 or more Humanities subjects.

Core Humanities

One semester core subject providing students the fundamental understanding from this learning area. Units studied may include:

- The End of World War I and the Rise of Nazi Germany
- Australia's Involvement in World War II
- The Demand for Improved Rights in Australia
- Civil Rights in the USA
- Environmental Change and Management
- Coastal Management Fieldwork
- Economic Theories and the Business Environment

Legal Studies

One semester elective subject exploring the role of the legal system and introducing concepts that will be explored in VCE Legal Studies. Units studied may include:

- Political Parties
- Criminal Law and the Court System
- Civil Law and the Court System
- The Constitution and the High Court
- Citizenship in Australia
- Young People and the Law
- Role of Government

History's Mysteries

A one semester elective subject that takes a fun look at some of the biggest mysteries of History. Units studied may include:

- Assassination of JFK
- The Bermuda Triangle
- The Illuminati
- The Zodiac Killer
- Anastasia Romanov
- Jack the Ripper
- Nostradamus
- The Moon Landing
- Crop Circles

Global Issues

A practical one semester elective subject focused on developing student's fieldwork, research and analytical skills whilst developing an understanding of the relationship between people and place. Units studied may include:

- Global Hazards & Disasters
- Interaction of People and Place
- Concepts in Human, Physical & Environmental Geography
- Practical Fieldwork Investigations:
 - o Weather and Climate
 - o Environmental Quality
 - o Population Growth
 - o Human Impact
 - o Natural Processes of Change

Economics (no cost)

A one semester elective subject that explores how economies work and introduces concepts from VCE Economics. Units studied may include:

- Introduction to Economics
- Resources and Production
- Consumer Behaviour
- Consumption and Incentives
- Price setting and Market power

YEAR 11 HUMANITIES ACCELERATED OPTIONS

VCE Business Management Units 1 and 2

The study of Business Management leads to opportunities across all facets of the business and management field such as small business owner, project manager, human resource manager, operations manager or executive manager. Further study can lead to specialisation in areas such as marketing, public relations and event management.

VCE Legal Studies Units 1 and 2

The study of VCE Legal Studies enables students to become active and informed citizens by providing them with valuable insights into their relationship with the law and the legal system. They develop knowledge and skills that enhance their confidence and ability to access and participate in the legal system. Students come to appreciate how legal systems and processes aim to achieve social cohesion, and how they themselves can create positive changes to laws and the legal system.

VCE Geography Units 1 and 2

VCE Geography enables students to examine natural and human phenomena, how and why they change, their interconnections and the patterns they form across the Earth's surface. In doing so, they develop a better understanding of their own place and its spaces and those in other parts of the world. These spatial perspectives, when integrated with historical, economic, ecological and cultural perspectives, deepen understanding of places, environments and human interactions with these.

SCIENCE

Note: Students must select at least 1 of the following 4 semester based Science subjects. Students considering a VCE Science pathway should consider selecting 2 or more subjects from the Science Learning Area.

Biology & Environmental Science

A semester based core subject that explores the living world and introduces concepts from VCE Biology. Units studied may include:

- Cells and Genetics
- Food Webs
- Environmental Processes
- Environmental Biology

Physics

A semester based core subject that investigates the principles of motion and energy that underpin much of our technology. This subject serves as an introduction to VCE Physics. Units studied may include:

- Newton's Laws
- Light and Space
- Electricity
- Practical Investigation

Chemistry

A semester based core subject that investigates chemical production and the role chemicals play in society. This subject serves as an introduction to VCE Chemistry. Units studied may include:

- Chemical Patterns and Reactions
- Periodic Table
- Atomic Theory
- Chemical Bonding
- Practical Investigation

General Science

A semester based core subject that explores broadly how science impacts our everyday life. This subject is recommended for students who do not intend to follow a VCE Science pathway. Units studied may include:

- What is everything in the universe made of?
- Why is climate changing (and why should we care)?
- How do we use energy to maintain our lifestyle?
- What makes you the way you are?
- Could life exist elsewhere in the universe?

Psychology

A semester based elective subject that begins to explore how our minds grow and develop, influencing our behaviour and helping us perceive the world. Units studied may include:

- What is Psychology?
- Research methods in psychology
- The brain
- Human development
- Mental health
- Vision and perception
- Sports psychology
- Greatest hits and misses and Mighty Ducks

YEAR 11 SCIENCE ACCELERATED OPTIONS

VCE Biology Units 1 and 2

VCE Biology enables students to investigate the processes involved in sustaining life at cellular, system, species and ecosystem levels. In undertaking this study, students examine how life has evolved over time and understand that in the dynamic and interconnected system of life all change has a consequence that may affect an individual, a species or the collective biodiversity of Earth. The study gives students insights into how knowledge of molecular and evolutionary concepts underpin much of contemporary biology, and the applications used by society to resolve problems and make advancements.

VCE Psychology Units 1 and 2

VCE Psychology provides students with a framework for exploring the complex interactions between biological, psychological and social factors that influence human thought, emotions and behaviour. In undertaking this study, students apply their learning to everyday situations including workplace and social relations. They gain insights into a range of psychological health issues in society.

HEALTH & PHYSICAL EDUCATION

Note: Students must study Core Health and Physical Education. Students considering a VCE Health and PE pathway should consider selecting 2 or more subjects from this Learning Area.

Core Health and Physical Education

A semester based compulsory core subject that engages students in physical movement and explores Health topics relevant to adolescents. Units studied may include:

- Movement concepts, tactical awareness and skill acquisition in team sports
- Coaching and referring/umpiring development
- Student choice from a variety of options
- Refining specialized movement sequences
- Respectful relationships
- Sexual health
- Mental health
- Health promotion

Advanced Physical Education

This subject is for those students who are considering doing VCE Physical Education and will comprise of 4 theoretical lessons and 4 practical lessons across the fortnight. It will cover concepts around; acute responses of the Body Systems in response to physical activity and the characteristic of the three Energy Systems and a basic introduction to biomechanical principals. The practical lessons are based around the application of the theory lessons to gain a deeper understanding of the content covered during theory lesson.

Fitness and Performance

This subject will comprise of 4 theoretical lessons and 4 lesson of practical lessons across the fortnight. The focus will be on improving individual fitness levels, developing an in depth understanding of fitness components and training methods. Students will also look at body systems, energy systems, nutrition, drugs in sport and recovery strategies to improve performance.

All Sorts of Team Sports

A combination of both practical and theoretical lessons that focus on a number of different sport specific units. Each unit will look at the specific strategies and tactics involved in team sports, as well as look at the impacts of drugs in sport and the impact these have on performance at an individual and societal level. Basic introduction to first aid and injuries in sport.

Health and Human Development

A semester based elective that explores the growth and development of the human body and prepares students for a VCE Health and Human Development pathway. Units studied may include:

- Dimensions of Health
- Nutrition
- Prenatal development (reality babies)
- Health status (Measurements and Indicators of health)
- Youth Issues

Outdoor Education

A semester based elective that allows students to experience and be active in the natural world.

Units studied may include:

- Team Building
- Motivations for Outdoor Experiences
- Understanding Outdoor Education
- Responses to Outdoor Education

*Work ethic and attendance will be considered when students select this subject

YEAR 11 HEALTH & PHYSICAL EDUCATION ACCELERATED OPTIONS

VCE Health and Human Development Units 1 and 2

VCE Health and Human Development provides students with the skills and knowledge to make informed decisions about their own health and to recognise the importance of health in society. In undertaking this study, they will be able to actively participate in making appropriate choices that allow for good health and be able to seek appropriate advice. VCE Health and Human Development enables students to understand the current ideologies of health and human development in contemporary society. Students critically evaluate the health and development of the individual across the lifespan in the context of both Australia's and global health and human development.

THE ARTS

Note: Students considering a VCE Arts pathway should consider selecting 2 or more subjects from this Learning Area.

Drama

A semester based elective, students are introduced to different theatrical styles through workshops, activities and practical scenarios. Students use playmaking techniques to create a short ensemble performance, which incorporates the use of a given stimulus and utilises performance skills and areas of stagecraft such as costume, makeup and set. Students perform short scenes and monologues as prepared and scripted by themselves. Students also view and analyse professional performances.

Units studied may include:

- Theatre Performance Styles
- Suitcase Series Performance
- Monologue Performance

Music Performance & Investigation

The study is designed for students who wish to develop their performance skills in the area of Music and it is achieved in both solo and group performance contexts. In addition, students study and develop skills for presenting effective performance, develop skills in aural comprehension, musical analysis and organisation of sound. Student's present solo and group performances, demonstrate prepared technical work and perform in public performances.

Units studied may include:

- Group and Solo Performance
- Music Theory
- Music History

Dance

A semester based elective, students choreograph dances by manipulating and combining the elements of dance, choreographic devices, and form and production elements to communicate their choreographic intent. They choreograph, rehearse and perform dances, demonstrating safe dance practice and technical and expressive skills appropriate to the style and genre.

Students analyse the elements of dance, choreographic devices, and form and production elements to communicate choreographic intent in dances they make, perform and view. Students also evaluate the impact of dance from different cultures, times and locations.

Units studied may include:

- Dance styles
- Composition Skills
- Choreography

Media

A semester based elective, students examine the concept and process of narrative story telling in screen media. Students analyse Film/ Television and Animation productions, examine technical codes and conventions and the various production roles and responsibilities inherent in screen media productions. Students engage in production planning, development, script writing, storyboarding, group exercises, productions and postproduction to complete their own screen productions.

Units studied may include:

- Narrative Film Study
- Film or Photoshop Production
- Representation of Culture in Film

Visual Communication Design

A semester based elective, students create a series of designs that are related to the identification, packaging and promotion of a chosen product. This thematic approach involves developing an overall marketing concept for the chosen product including logos, packaging and an advertising campaign. From developmental concepts through to finished presentations a wide range of design styles and media are explored, with a focus on manual and digital drawing methods.

Units studied may include:

- Visual analysis – Design elements
- Technical drawing
- Complete projects on Illustrated Word
- Logo design and architecture

Studio Arts

A semester based elective where students will conceptualise, plan and design art works that express ideas, concepts and artistic innovations. They will analyse, interpret and evaluate a range of visual art works from various cultures and different historical and contemporary viewpoints. Students will explore and express their own technique and skills through a range of art making techniques including painting, drawing, printmaking and sculpture.

Students will complete visual artworks in a progressive, active and creative Visual Diary, as an introduction to VCE expectations. The Visual Diary will include artist research, trials, information gathered on techniques and materials, personal sketches, drawings and annotated photographs.

Students will analyse, interpret and evaluate a range of visual art works from different cultures, historical and contemporary contexts to explore different viewpoints.

Units studied may include:

- Experimenting with materials and techniques
- Artistic influence and inspiration
- Narrative in art
- The influence of culture and style in art

TECHNOLOGY

Note: Students considering a VCE Technology pathway should consider selecting 2 or more subjects from this Learning Area.

Design & Technology - Wood

A semester based elective, students gain advanced skills and knowledge in design, research, materials, construction techniques and other areas relating to the practice of Product Design and Technology - Wood. Students will manufacture core pieces of work to understand manufacturing techniques, processes and procedures. Students will be able to use the skills and knowledge gained to design and produce a project of their choice with teacher guidance. OHS is a key component of this study and must be adhered to at all times.

Units studied may include:

- Making a coffee table
- Slot together furniture
- Design for 3D printing

Food Technology

A semester based elective, students gain a broad knowledge and understanding of food properties, processing, preparation and their interrelationship, nutritional considerations and consumption patterns. Students study and address the importance of hygiene and safe working practices and legislation in the production of food. Students will develop food-specific skills, which can then be applied in a range of contexts enabling students to produce quality food products. Students are also provided a context through which to explore the richness, pleasure and variety that food adds to life as well as the importance of the food supply and nutrition to the future of humanity.

Units studied may include:

- Occupational health & safety food preservation
- Sensory properties healthy eating
- Ethical foods

Computing

A semester based subject, students are introduced to the stages of the problem- solving methodology. Students focus on how data can be used within software tools such as databases and spreadsheets to create data visualisations, and the use of programming languages to develop working software solutions.

Units studied may include:

- PC hardware/software OS
- Networked digital systems
- Database and programming

Robotics

A semester based subject, students develop understanding and skills in computational thinking such as precisely and accurately describing problems and the use of modular approaches to solutions. It also focuses on engaging students with specialised learning, such as VEX IQ coding, to program and manoeuvre VEX robots. Students have the opportunity to analyse problems and design and implement and evaluate a range of solutions, such as database-driven websites, artificial intelligence engines and simulations.

Units studied may include:

- Programming and coding for design
- Virtual robot programming
- Robot design actions

Multimedia

A semester based elective, students are provided opportunities to develop knowledge, understanding and skills in relation to multimedia, photographic and associated industries and technologies. Students are introduced to a range of multimedia-related technologies including photographic presentations; brochures incorporating graphic and/or photographic images; journals with photo, graphic or video images; computer animations; webpages; comic books; magazines; short films and podcasts.

Units studied may include:

- Adobe InDesign, Illustrator & Photoshop
- Using DSLR cameras for both still and moving images
- Webpage design for a set brief

Cafe

A Semester based elective, students have the hands-on opportunity to learn about Café Operations in our very own on-site 'student & staff' run Café at Carrum Downs Secondary College – 'Café 263'. Our Café is open to the public and the school community on a daily basis and offers real life insight, experience and opportunity for students to experience, grow, learn and refine their very own customer service and hospitality skills, while also being of service to our Carrum Downs and whole school community.

Units studied may include:

- Food handling hygiene
- Food preparation and food service
- Barrister-style coffee service
- Customer service and till operation