



# LEARNING AREAS 2010

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# THE ARTS (VISUAL & PERFORMING ARTS)

## *Visual Arts: Creative, Active and Inspired*

The Visual Arts provide students with an exciting range of courses that enable them to develop their creativity, imagination and inspiration. A wide variety of visual forms such as 2 dimensional and 3 dimensional mediums, digital media and digital imaging are offered. These can be explored in Art, Visual Design and Communication and Media.

### *Student Use of Traditional and New Technologies in the Arts*

The Visual Arts Faculty is very enthusiastic about our use of technology and we have an excellent range of computer programs such as Photoshop, Illustrator, Paint Shop Pro, Ulead (movie editor) and Kahootz to enable students to digitally create and manipulate 2 and 3 dimensional art works and moving and still images.

Students can draw, paint, and print in an exciting studio environment. The sculpture component of our courses provide students with hands on experiences with the major sculpture methods such as modelling with clay, carving with limestones, sandstones, casting with plaster, construction and assemblage. Digital photography and digital image manipulation is incorporated into the Visual Art courses.

Visual Communication provides students with a firm grounding in conventional elements in design and enables them to familiarise themselves with computerised technologies. Students are encouraged to develop skills in a variety of areas of Visual Communication. They are challenged with drawing systems which include isometric, orthogonal, oblique, planometric, axonometric and perspective. Students develop their design skills and learn how to create layouts incorporating lettering and text in exciting visual form.

## *Media*

Media courses explore the world of film, movie making, animation, advertising, mass media, digital imaging and photography. They also provide students with the opportunity to create their own media forms using current digital technologies.

## *Drama in the Arts*

**At Parade College in Drama we strive to:**

- To develop an understanding and love of Performance.
- The ability to decode Media and arts based work.
- To lay the foundations of training for individuals to work as professional actors, technicians, directors, designers and associated disciplines.
- To play a role in the shaping of our culture through continuing and development in the theory and practice of theatre.

The Dramatic Arts at Parade College takes the standpoint that drama is about people and understanding. Through a varied and comprehensive approach to the discipline, Dramatic Art at Parade College is host to an intensive and rigorous curriculum, producing actors, theatre technicians and arts industry leaders.

Our students develop the capacity to work creatively and collaboratively, in both traditional and modern performance contexts, researching and developing the theory and practice of theatre. The course is designed to develop a wide range of skills as students progress through year 7 & 8 and have the ability to accelerate at Year 10 into Drama or Theatre Studies- Units 1 & 2. At a VCE level many students opt to undertake VCE Drama and VCE Theatre Studies as there are many crossovers between the two.

Students are encouraged to select widely amongst the exciting range of Dramatic Art subjects on offer- with the ability to stream after middle school into more theoretical understanding or a greater performance focus. However, all subjects have an analytical research component in conjunction with a

performance focus. Students must be prepared to learn both the theoretical and skill based framework of their studies.

Our students develop key analytical and problem solving skills from their performance and evaluative work in Dramatic Art.

Because of the highly personal nature of the subject many Drama students go on to work in professions such as Medicine, Law, Sport, Television and Film, Stage acting, Musicians, Modeling, Therapy and Youth Work. More and more the companies that drive us into the new millennia want their managers to be drama trained – the skills developed in and out of the Drama classroom are essential life skills.

Year 7	Year 8
<b>Option studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• Visual Art &amp; Visual Communication</li> <li>• Drama</li> <li>• Music</li> </ul>	<ul style="list-style-type: none"> <li>• Art</li> <li>• Visual Communication</li> <li>• Comedy and Tragedy</li> <li>• Introductory Music Performance</li> </ul>

Year 9	Year 10
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• Art</li> <li>• Architecture &amp; Visual Communication</li> <li>• Introduction to Media</li> <li>• Acting and Production / Backstage Theatre</li> <li>• Intermediate Music Performance</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to Studio Arts</li> <li>• The Constructed Environment &amp; Visual Communication</li> <li>• Media</li> <li>• VCE Theatre Studies 1 / 2</li> <li>• VCE Drama 1 / 2</li> <li>• Music Advanced Performance (whole year)</li> <li>• Music Industry Skills</li> </ul>

Year 11	Year 12
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• VCE Studio Art Units 1 / 2</li> <li>• VCE Visual Design &amp; Communication Units 1 / 2</li> <li>• VCE Media Units 1 / 2</li> <li>• VCE Theatre Studies 1 / 2</li> <li>• VCE Drama 1 / 2</li> <li>• VCE Theatre Studies 3 / 4</li> <li>• VCE Drama 3 / 4</li> <li>VCE Music Performance Unit 1 / 2</li> <li>• VET VCE Certificate II Music Industry Skills</li> </ul>	<ul style="list-style-type: none"> <li>• VCE Studio Art Unit 3 / 4</li> <li>• VCE Visual Design &amp; Communication Unit 3 / 4</li> <li>• VCE Media Unit 3 / 4</li> <li>• VCE Theatre Studies 3 / 4</li> <li>• VCE Drama 3 / 4</li> <li>• VCE Music Performance (Solo) Unit 3 / 4</li> <li>• VET VCE Certificate III Music Industry Skills</li> </ul>

# ENGLISH

The study of English at Parade College aims to ensure that all our students are actively involved in reading, viewing, writing, comparing and talking about texts.

Students will be encouraged to explore and engage with a range of literature and media texts so that they can explore ideas and think critically about their world.

Our aim is to give our students knowledge about how language functions, how it can reflect and shape social attitudes and assist them in achieving a better understanding of themselves, their culture and their world.

The English Faculty is committed to assisting the keen student by extending their literary exposure through the study of Literature at VCE level with the opportunity for extension at Year 10. The introduction of a new course aptly called Intense English at Year 10 will provide the diligent student with the opportunity to undertake an intensive study of the set texts. This course will suit the student who intends to excel in the Literary field before undertaking his VCE.

Special Units in Literacy are also offered to students undertaking VCAL at Year 11 or Year 12.

The Middle School Curriculum also provides Year 8, and Year 9 students with smaller classes and a specialist teacher to assist those who require the further development of Literacy skills.

The English Faculty also works closely with the Student Support Services to help Students who need assistance because the College is committed to empowering our students and promoting excellence.

<b>Year 7</b>	<b>Year 8</b>
<b>Core studies</b>	<b>Core studies</b>
<ul style="list-style-type: none"> <li>• English</li> <li>• Advanced Placement English</li> </ul>	<ul style="list-style-type: none"> <li>• English</li> <li>• Advanced Placement English</li> </ul>
<b>Year 9</b>	<b>Year 10</b>
<b>Core studies</b>	<b>Core studies</b>
<ul style="list-style-type: none"> <li>• English</li> <li>• Advanced Placement English</li> </ul>	<ul style="list-style-type: none"> <li>• English</li> <li>• Literature</li> <li>• Advanced Placement English</li> </ul>
<b>Year 11</b>	<b>Year 12</b>
<b>Core studies</b> <i>(at least one must be chosen)</i>	<b>Core studies</b> <i>(at least one must be chosen)</i>
<ul style="list-style-type: none"> <li>• VCE English 1 / 2</li> <li>• VCE English Language 1 / 2</li> <li>• VCE Literature 1 / 2</li> </ul>	<ul style="list-style-type: none"> <li>• VCE English 3 / 4</li> <li>• VCE English Language 3 / 4</li> <li>• VCE Literature 3 / 4</li> </ul>

# HEALTH & PHYSICAL EDUCATION

As Learning Area, Health & Physical Education aims to educate and develop students' knowledge and skills in a broad range of areas, these include:

- Fitness Development
- Skill Acquisition
- Rules & Strategies of Sport
- Health Awareness & Promotion
- Elite Performance and Development
- Body Systems

The skills and knowledge taught across the Learning Area are fundamental to a healthy and active lifestyle both during and after Parade life. We believe these attributes to be more important now than ever before as our society faces more and more issues and problems linked with inactivity and poor nutritional habits.

The broad range of studies we offer gives students an excellent opportunity to undertake an exciting combination of subjects in preparation for university and TAFE tertiary courses. Some of the tertiary courses available include Human Movement, Physiotherapy, Nursing, Medicine, Myotherapy, Physical Education, Health Sciences, Podiatry, Osteopathy, Personal Training, Sports Coaching, Recreation and many more.

Entry to many of these courses is based on interviews and experience within the field and as a result we recommend that students undertake one or more studies from this Learning Area.

The following Units are offered in Health and PE in Years 7-12.

<b>Year 7</b>	<b>Year 8</b>
<b>Core studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• Health and Physical Education (HPE)</li> </ul>	<ul style="list-style-type: none"> <li>• Health and Physical Education (HPE)</li> </ul>
<b>Year 9</b>	<b>Year 10</b>
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• Health and Fitness for Sport               <ul style="list-style-type: none"> <li>• Sport Science</li> <li>• Sport in Life</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to Physical Education</li> <li>• Introduction to VET Community Recreation</li> <li>• Introduction to Health &amp; Human Development</li> <li>• Introduction to Outdoor &amp; Environmental Studies</li> </ul>
<b>Year 11</b>	<b>Year 12</b>
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• VCE Physical Education Unit 1 / 2</li> <li>• VET Certificate II in Community Recreation</li> <li>• VCE Health and Human Development Unit 1 / 2</li> </ul>	<ul style="list-style-type: none"> <li>• VCE Physical Education Unit 3 / 4</li> <li>• VET Certificate II in Community Recreation</li> <li>• VCE Health and Human Development Unit 3 / 4</li> </ul>

# HUMANITIES: ECONOMICS AND COMMERCE

Humanities: Economics and Commerce Learning Area at Parade College responds to the needs of students. The Learning Area makes a conscious effort to keep abreast with the rapidly changing knowledge and demands of the business world. We have devised a unique pathway for any student wishing to study a Commerce related subject at Parade College.

The studies in the lower school as part of the Year 8 & 9 Elective Curriculum introduce our younger students to the innovative world of business, the legal system and financial management.

A subject called Careers is a compulsory subject for all of Year 10 students. The subject coincides with the boys Work Experience Placements. The aim of this unit is to prepare the boys for the workforce and provide them with the necessary skills to be responsible and reliable employees. The study of Careers also teaches the boys how to successfully apply for jobs and how to present themselves at an interview.

The teachers in the Commerce Learning Area pride themselves on the diverse skills and attributes that each teacher brings to the classes they deliver. Teaching staff in this department include teachers who are undertaking further study, marking examinations for the Victorian Curriculum and Assessment Authority or co-authoring textbooks. There are also teachers who came to the college after time working in business.

We hope that your sons will acquire a range of diverse skills and be active participants of the Business World by studying one of the many Commerce subjects we have on offer at Parade College.

Year 8	Year 9
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>World of Business</li> </ul>	<ul style="list-style-type: none"> <li>Introduction to Financial Management               <ul style="list-style-type: none"> <li>Financial Investment</li> <li>The Law in Operation</li> </ul> </li> </ul>

Year 10	
<b>Core study:</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>Careers</li> </ul>	<ul style="list-style-type: none"> <li>Business Accounting</li> <li>Australia's Legal and Political System</li> <li>Business Economics               <ul style="list-style-type: none"> <li>Small Business</li> </ul> </li> </ul>

Year 11	Year 12
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>VCE Accounting Unit 1 / 2</li> <li>VCE Business Management Unit 1 / 2</li> <li>VCE Economics Unit 1 / 2</li> <li>VCE Legal Studies Unit 1 / 2</li> </ul>	<ul style="list-style-type: none"> <li>VCE Accounting Unit 3 / 4</li> <li>VCE Business Management Unit 3 / 4</li> <li>VCE Economics Unit 3 / 4</li> <li>VCE Legal Studies Unit 3 / 4</li> </ul>

# HUMANITIES: HISTORY AND GEOGRAPHY

Sometimes choice can be a problem, when there are so many options. Students in Year 8 and 9, need to choose three electives from the Humanities over two years. Parents and students are best to keep in mind that students will always be happiest when studying an elective they find interesting rather than one they think they must choose for other reasons. Someone completing Year 7 or Year 8 should not select electives because of a later career choice. There is plenty of time for them to specialise in one area even if they believe they will later make a career in that subject. Students need a broad, general education to prepare them for life. Many will never study art, history, geography and politics once they leave school yet these subjects and others are important for their later lives.

Students completing Year 7 are advised to choose Space and Place in Year 8, if they are interested in Geography or Knights and Castles / Classical History if they are interested in History. All 3 electives are ideal for Year 8 students. Those students completing Year 8 are advised to choose Environmental Disasters in Year 9 if they are interested in Geography or Early Australia if they are interested in history.

Students completing Year 9 might have a better idea of what subject areas they handle well. The Year 10 boys who are interested in Geography should choose Changing Environments. There are two history electives for students to choose from at Year 10: Australia in War and Peace and Civil War and Civil Rights.

Year 7	Year 8
<b>Core studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• Humanities &amp; PBL</li> <li>• Advanced Placement Humanities</li> </ul>	<ul style="list-style-type: none"> <li>• Space and Place</li> <li>• Knights and Castles</li> <li>• Classical History</li> </ul>

Year 9	Year 10
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• Environmental Disasters</li> <li>• Early Australia</li> </ul>	<ul style="list-style-type: none"> <li>• Changing Environments</li> <li>• Australia in War and Peace</li> <li>• The United States: Civil Rights and Civil War</li> <li>• Introduction to Philosophy</li> </ul>

Year 11	Year 12
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• VCE Twentieth Century History Unit 1 / 2</li> <li>• VCE International Politics Unit 1 / 2               <ul style="list-style-type: none"> <li>• VCE Geography Unit 1 / 2</li> <li>• VCE Philosophy Unit 1 / 2</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• VCE History Revolutions Unit 3 / 4</li> <li>• VCE Australian History Unit 3 / 4</li> <li>• VCE International Studies Unit 3 / 4               <ul style="list-style-type: none"> <li>• VCE Geography Unit 3 / 4</li> </ul> </li> </ul>

# LOTE - ITALIAN, JAPANESE AND FRENCH

Studying a second language offers students greater career choice, possibilities and helps develop a deeper understanding of their own and other cultures. Learning a language contributes to the development of an interculturally aware citizen.

Students who study a second language develop thinking and reflection skills. They do this by understanding how a language operates as a system and through comparison with other language, and how other languages are structured and function for example, English. Students develop their communication skills and are provided with the tools, through comparison and reflection, to understand language, culture and humanity.

Year 7	Year 8
<b>Core studies</b> ( <i>Two are chosen</i> )	<b>Core studies</b> ( <i>only One is chosen</i> )
<ul style="list-style-type: none"> <li>• Italian</li> <li>• French</li> <li>• Japanese</li> </ul>	<ul style="list-style-type: none"> <li>• Italian</li> <li>• French</li> <li>• Japanese</li> </ul>
Year 9	Year 10
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• Italian</li> <li>• French</li> <li>• Japanese</li> </ul>	<ul style="list-style-type: none"> <li>• Italian</li> <li>• French</li> <li>• Japanese</li> </ul>
Year 11	Year 12
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• VCE Italian Unit 1 / 2</li> <li>• VCE French 1 / 2</li> <li>• VCE Japanese 1 / 2</li> </ul>	<ul style="list-style-type: none"> <li>• VCE Italian Unit 3 / 4</li> <li>• VCE French Unit 3 / 4</li> <li>• VCE Japanese Unit 3 / 4</li> </ul>

# MATHEMATICS

Mathematics is a core subject for all students in Years 7 and 8.

Courses at Parade College then branch off from Year 9 onwards:

Year 9	Year 10
<b>Core studies</b>	<b>Core studies one of</b>
<ul style="list-style-type: none"> <li>Mathematics</li> <li>Alternative Mathematics</li> <li>Advanced Placement Mathematics OR Accelerated Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>Mathematics A</li> <li>Mathematics Foundations</li> <li>VCE Mathematical Methods Unit 1 and Unit 2 CAS</li> </ul>
Year 11	Year 12
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>VCE Mathematical Methods CAS Unit 1 / 2</li> <li>VCE General Mathematics (Further) Unit 1 / 2</li> <li>VCE General Mathematics (Specialist) Unit 1 / 2</li> </ul>	<ul style="list-style-type: none"> <li>VCE Mathematics Methods CAS Unit 3 / 4</li> <li>VCE Specialist Mathematics Unit 3 / 4</li> <li>VCE Further Mathematics Unit 3 / 4</li> <li>Monash University Mathematics Enhancement Program</li> </ul>

## Mainstream VCE Pathways in Upper School

Year 10	Year 11
<b>Core studies</b>	<b>Elective studies one or two of</b>
<ul style="list-style-type: none"> <li>Mathematics A</li> </ul>	<ul style="list-style-type: none"> <li>VCE Mathematical Methods CAS Unit 1 / 2</li> <li>VCE General Mathematics (Specialist) Unit 1 / 2</li> <li>VCE General Mathematics (Further) Unit 1 / 2</li> </ul>
Year 12	
<b>Elective studies one or two of</b>	
<ul style="list-style-type: none"> <li>VCE Mathematics Methods CAS Unit 3 / 4</li> <li>VCE Specialist Mathematics Unit 3 / 4</li> <li>VCE Further Mathematics Unit 3 / 4</li> </ul>	

## Accelerated VCE Pathways in Upper School

Year 9	Year 10
<ul style="list-style-type: none"> <li>Accelerated Mathematics <i>or</i> Mathematics Advanced Placement</li> </ul>	<ul style="list-style-type: none"> <li>VCE Mathematical Methods CAS Unit 1&amp;2</li> </ul>
Year 11	Year 12
<ul style="list-style-type: none"> <li>VCE Mathematical Methods CAS Unit 3 / 4</li> </ul>	<ul style="list-style-type: none"> <li>VCE Specialist Mathematics Unit 3 / 4</li> </ul>

We would like to invite any year 8 students currently not undertaking Mathematics Advanced Placement to apply for the Parade College Mathematics Acceleration Program. All applications will include a copy of the students year 7 semester 1 and 2 reports as well as their year 8 semester 1 results. If the application fulfils the expected standards, the students selected will undergo an entry test during term four where the final selection will be made.

Generally the expected results for this program are average grades of A.

# RELIGIOUS EDUCATION

The Religious Education Program at Parade College has been a School Based program since the first Guidelines of the 1970s. Since then there have been revised editions in 1984 and 1995 and in 2002 the school programs were effectively replaced by official textbooks from the Archdiocese of Melbourne. Now in 2008 the Religious Studies curriculum at year 7 – 10 is based upon the standards and units from the Coming to Know, Worship and Love syllabus. We are currently working towards the implementation of progression points and rubric based assessments to suit the learning needs and requirements of our students at Parade College.

At VCE level, the Study Designs are set by the Victorian Curriculum and Assessment Authority and implemented to suit the learning requirements of our students and maintains a Catholic perspective wherever possible.

## Religious Education Offerings

Year 7	Year 8
<b>Core studies</b>	<b>Core studies</b>
<ul style="list-style-type: none"> <li>Religious Education <i>inc. Personal &amp; Social Development</i></li> </ul>	<ul style="list-style-type: none"> <li>Religious Education</li> </ul>
Year 9	Year 10
<b>Core studies</b>	<b>Core studies</b>
<ul style="list-style-type: none"> <li>Religious Education</li> </ul>	<ul style="list-style-type: none"> <li>Religious Education <i>inc. Community Action</i></li> </ul>
Year 11	Year 12
<b>Core studies</b>	<b>Core studies</b>
<ul style="list-style-type: none"> <li>VCE Religion &amp; Society Unit 1 / 2 <i>or</i></li> <li>VCE Texts &amp; Traditions Unit 1 / 2</li> </ul>	<ul style="list-style-type: none"> <li>Tenete Program</li> </ul>
	<b>Elective studies</b>
	<ul style="list-style-type: none"> <li>VCE Texts &amp; Traditions Unit 3 / 4</li> </ul>

## Year 7-10 Units

The five content strands in Religious Studies for year 7 – 10 cover the following areas of study:

- Scripture and Jesus
- Church and community
- God, Religion and Life
- Prayer, Liturgy and Sacraments
- Morality and Justice

These elements of Religious Studies aim to assist students towards:

Making sense of everyday life experiences in the broader contexts of mystery, complexity, confusion and awe

Gaining access to and understanding the Scriptures, the traditions of the Catholic community, its stories, its experiences and its teachings

Celebrating with others the mystery and life of the Risen Christ

Responding to the activity of God in their lives and in the whole of creation

The students complete 4 – 5 units of work per year on specific topics which allow their knowledge to grow under the above areas of learning over the 4 years of study.

## Year 11 and 12: VCE Religion and Society (R&S) Units 1-4

At Year 11, R&S Unit 1, students study two Religious Traditions: Catholic Christianity and Aboriginal Spirituality.

In R&S Unit 2 the study of Ethics offers an exploration of the issues facing all people in our society.

In Year 12 R &S Units 3 and 4 we study Catholic core beliefs and the impact of these beliefs on the individuals in the community.

## Year 11 and 12: VCE Texts and Traditions (T&T) Units 1-4

**T&T unit 1**, students will examine the place of narrative within a religious tradition.

**T&T Unit 2**, In this unit texts are studied as a means of investigating themes such as justice, racism and gender roles.

**T&T Unit 3**, students examine texts relating to the origin and early development of the selected tradition, focusing on events, people and places important to the development of the tradition.

**T&T unit 4**, The main part of study in this unit continues the exegetical study of foundational texts begun in Unit 3. However, the themes contained in the foundational texts have been reinterpreted at different times within traditions and such developments are also included in the area of study.

## Year 11 Religious Education

In Year 11 choice of one of the following two courses is compulsory:

### Religion and Society

You will study 'Religion in Society' in Unit 1 and 'Ethics' in Unit 2. The study requires you to have good skills in comparison and documenting of data to demonstrate the difference between two religious traditions. If you enjoy discussing 'moral dilemmas' and can engage in thinking processes that can weigh up the various sides of an argument, then Ethics is for you.

### Texts and Traditions

In the first two units of this study, you will be introduced to 'exegesis', the method used to make deep analysis of scripture passages. The major text for focus will be Mark's Gospel. This course is recommended for those with a high level of literacy skill.

## Year 12 Religious Education

In Year 12, you are not required to choose a specific Religious study for VCE.

All students participate in the Tenete program, which is based on personal spirituality and well roundedness, bringing faith and belief into your day to day lives as you grow and develop.

For VCE there is the choice of one of the two following courses:

### Religion and Society

Units 3 & 4 are titled 'The Search for Meaning' and 'Challenge and Response' respectively. These units explore the mystery and meaning of the Eucharist as a central ritual of the Catholic Christian tradition. Also, the inspiration of the life of Blessed Edmund Rice is explored historically but also with a view to how his legacy or charism is lived out in radical service to disadvantaged in society today. You will need good research and writing skills to experience success in this course.

### Texts and Traditions

Units 3 and 4 are titled 'Texts and the Early Tradition' and 'Texts and their Teachings' respectively. These units focus particularly on selected texts from the Gospel attributed to Luke's community. The

writings are explored in the context of the society in which they were written. You will need to have good deductive skills that are similar to those required for success in a history study. Equally, capacity to write interpretive essays would be an advantage.

# SCIENCE

The Parade College Science Faculty aims to inspire and engage students. We help all to develop curiosity and a spirit of inquiry, to be open-minded and value objectivity. Our students are encouraged to adopt critical viewpoints, to recognise the limitations of science and to respect and care for the environment.

## Why Study Science?

- The study of Science helps to develop scientifically and technologically literate citizens able to make informed decisions.
- Students who study science will be able to see connections between science and people, and be aware of the impact of science on our development, society, the individual and the environment.
- Science Education prepares students for tertiary studies and entry into the workforce in a variety of capacities.
- World Economies increasingly rely on scientific knowledge and on a workforce skilled in these areas.
- The skills developed through an education in science are useful in a wide range of careers in addition to those normally thought of as scientific.

## What Can I Achieve From An Education In Science At Parade College?

- You will acquire scientific skills and conceptual knowledge.
- Use the skills of scientific investigation, reasoning and analysis to ask questions and seek solutions.
- Develop the attributes of a scientist, for example, flexibility, curiosity, critical reflection, respect for evidence and an ethical viewpoint.
- Recognize and understand the strengths and limitations of science.
- Be able to interpret and communicate scientific ideas effectively.
- Appreciate the dynamic role of science in society.

The following Units are offered in Science in Years 7-12:

<b>Year 7</b>	<b>Year 8</b>
<b>Core studies</b>	<b>Core studies</b>
<ul style="list-style-type: none"> <li>• Science</li> <li>• Advanced Placement Science</li> </ul>	<ul style="list-style-type: none"> <li>• Science</li> <li>• Advanced Placement Science</li> </ul>
<b>Year 9</b>	<b>Year 10</b>
<b>Core studies</b>	<b>Elective studies - must choose at least one of:</b>
<ul style="list-style-type: none"> <li>• Science</li> <li>• Advanced Placement Science</li> </ul>	<ul style="list-style-type: none"> <li>• Biology (Germs to Genomes)</li> <li>• Chemistry (Marvellous Molecules)</li> <li>• Psychology (Opening Minds)</li> <li>• Physics (Use the Force)</li> </ul>
<b>Year 11</b>	<b>Year 12</b>
<b>Elective studies</b>	<b>Elective studies</b>
<ul style="list-style-type: none"> <li>• VCE Biology Unit 1 / 2</li> <li>• VCE Chemistry Unit 1 / 2</li> <li>• VCE Psychology Unit 1 / 2</li> <li>• VCE Physics Unit 1 / 2</li> </ul>	<ul style="list-style-type: none"> <li>• VCE Biology Unit 3 / 4</li> <li>• VCE Chemistry Unit 3 / 4</li> <li>• VCE Psychology Unit 3 / 4</li> <li>• VCE Physics Unit 3 / 4</li> </ul>

## Competitions

The Science Faculty encourages students to “expand their horizons” by participating in a range of activities, these include:

- CREST (Creativity in Science and Technology) Bronze and Silver Awards
- The Melbourne Science and Engineering Challenge (Latrobe University)

- The Rio Tinto Big Science Competition.
- Siemens Science Experience
- CSIRO "Scientists in School" Program
- Student Research Scheme (CSIRO)
- International Competitions and Assessments for Schools (ICAS) conducted by UNSW.
- Australian National Chemistry Quiz
- Science Olympiad Qualifications Examinations

All Parade College Science Teachers are experts in their particular fields of study.

# TECHNOLOGY, DESIGN AND CREATIVITY

Technology, Design and Creativity involves students in investigating, designing, producing and evaluating products that provide a solution to a design problem. Students are expected to work creatively by applying imagination and lateral and critical thinking throughout the design processes. Design is a vital step in transforming ideas into creative, practical and commercial products. Students use tools, equipment, materials and systems components safely and creatively to make quality products and/or systems. Students learn to evaluate their products and technological systems in relation to environmental, social and economic factors.

## *Information & Communications Technology*

The rapid developments in information and communications technology are having a major influence on virtually all aspects of society. Not only does information technology have the capacity to change how existing tasks and activities are undertaken, but it also creates new opportunities in work, study, recreation and in personal relationships. It is important that students learn to use information and communications technology and learn of its power, scope and limitations. Students need to become innovative in perceiving possible uses of information and communications technology, and to orient themselves towards the future, with an awareness of the implications of the possible uses. Information and Communications Technology courses will equip students with the skills to be able to make use of information and communications technology and make informed choices, at a personal level and within the workplace, on the future developments and directions in this exciting and challenging field.

The overall focus of our courses is on:

- the information and communications technology used to process data into information;
- the processing and management of information to meet a range of purposes;
- the acquisition and application of knowledge and skills in using information and communications technology;
- responding to technological change;
- acquiring and applying knowledge of the characteristics of information and its management;
- developing a critical perspective in the use of information and communications technology in society;
- acquiring and applying skills, techniques and strategies to creatively and methodically solve problems requiring software solutions and/or system change.

The courses themselves have a greater emphasis on one or more of these aspects.

The main emphasis in these courses is on the rapidly developing areas of multimedia and application software. The students will learn to use a variety of industry-standard software and hardware to produce solutions to information and communications problems encountered by individuals and organisations.

Students will undertake a number of projects in each semester. Some of these projects will be research based, whereas others will require students to solve an information problem using the computer as a tool. Some projects will be done individually, whereas others will be done in teams.

The subjects on offer in the Technology Learning Area are:

Year 8	
Elective studies*	
<ul style="list-style-type: none"><li>• Introduction to Electronics</li><li>• Introduction to CAD &amp; Production</li></ul>	<ul style="list-style-type: none"><li>• Information &amp; Communications Technology</li></ul>
Year 9	
Elective studies*	

<ul style="list-style-type: none"> <li>• Intermediate Electronics</li> <li>• Intermediate CAD &amp; Production</li> <li>• Introduction to Food Technology</li> </ul>	<ul style="list-style-type: none"> <li>• The Internet and Web Sites</li> <li>• Computer Game Design</li> </ul>
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**Year 10**

**Elective studies\***

<ul style="list-style-type: none"> <li>• Advanced CAD &amp; Production <ul style="list-style-type: none"> <li>• Mechanical Systems</li> </ul> </li> <li>• Robotics &amp; Control Systems</li> <li>• Intermediate Food Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to Multimedia</li> <li>• Introduction to Software Development</li> </ul>
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<b>Year 11</b>	<b>Year 12</b>
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<b>Elective studies*</b>	<b>Elective studies*</b>
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<ul style="list-style-type: none"> <li>• VCE Systems Engineering Unit 1 / 2</li> <li>• VCE Design &amp; Technology Unit 1 / 2</li> <li>• VET Certificate II in Hospitality (Operations) <ul style="list-style-type: none"> <li>• VCE Food Technology 1 / 2</li> </ul> </li> <li>• VCE Information Technology Unit 1 / 2</li> </ul>	<ul style="list-style-type: none"> <li>• VCE Systems Engineering Unit 3 / 4</li> <li>• VCE Design &amp; Technology Unit 3 / 4</li> <li>• VET Certificate II in Hospitality (Operations) <ul style="list-style-type: none"> <li>• VCE Food Technology 3 / 4</li> </ul> </li> <li>• VCE IT Applications Unit 3 / 4</li> <li>• VCE Software Development Unit 3 / 4</li> </ul>
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- *NB. All offerings in technology are subject to the availability of specialist teaching staff*

# VICTORIAN CERTIFICATE OF APPLIED LEARNING (VCAL)

The Victorian Certificate of Applied Learning (VCAL) is a senior school certificate designed to sit alongside the VCE, providing additional pathways for Years 11 and 12 students seeking vocationally oriented career options such as apprenticeships, traineeships, further education and training or moving on to employment.

Students cannot complete the VCE Certificate while undertaking VCAL, but VCAL students may undertake a VCE subject in their area of strength.

Those considering VCAL are:

- Students who are seeking a vocational pathway on completion of school
- Students who learn best where learning is practical, experiential, 'hands-on' or 'applied'
- Students who are less suited to academic learning

VCAL provides students with a more flexible approach to their education and training. It aims to provide the skills, knowledge and attitudes to enable students to make informed choices regarding work and further education. Personal development and the use of individual student interests are important components of the VCAL.

## *VCAL Levels*

VCAL has 3 levels, Foundation, Intermediate and Senior. Parade offers both the Intermediate Level (at Year 11) and the Senior Level (at Year 12) of VCAL.

The Edmund Rice Pathways program can prepare students for either VCAL or VCE, beginning in Year 10.

## *VCAL Curriculum Strands*

VCAL has 4 strands to ensure balance and state-wide consistency:

- Literacy and numeracy skills
- Industry specific skills
- Work related skills
- Personal development skills

## *VCAL Curriculum Selection*

### **1. Literacy and Numeracy Skills**

Students undertake VCAL-school based units in Literacy and Numeracy in both the Intermediate and Senior VCAL.

### **2. Industry Specific Skills**

Students choose from:

VCE VET Certificates offered at Parade College in Furnishing (Cabinet-Making), Hospitality, Music Industry Skills or Community Recreation, Building and Construction (Carpentry), Electrotechnology, Building and Construction (Bricklaying) Floor and Wall tiling and off site construction Units within these Certificates amounting to 100 nominal hours.

External programs other than those listed can be accessed through the Northern Melbourne VET Cluster including IT, Multi Media, Printing Graphic Arts, and a range of others. Plumbing, refrigeration air conditioning, engineering can be accessed through TAFE partnerships. Any others of student interest may be possible on negotiation.

### **3. Work Related Skills**

Students undertake Work placement and VCAL work related units. Students' part time work can become a recognised part of the VCAL. Students engaged in school based apprenticeships or traineeships have recognition under VCAL.

Students will complete a school based VCAL Work Related Skills at both Intermediate and Senior levels which will specifically prepare students for the world of work. Central to this will be extended work placement within the broad industry of student interest. Both school and students will be involved in a process of being placed in a suitable placement up to 8 weeks over the year.

#### **4. Personal Development Skills**

Students undertake Units in Personal Development skills which can include community involvement and community based projects all designed to develop teamwork skills, self-confidence and life skills. Student's own involvement in the community can be recognised e.g. CFA; voluntary work, outside coaching; leadership and involvement in a range of activities can be recognised in the VCAL.

#### **5. VCE subject**

VCAL students are encouraged to undertake a VCE study in their area of strength if the timetable allows.

**\* There will be strictly limited places in this certificate. Any student who has any inclination towards university entrance beyond school should not apply for the VCAL. An application process, selection criteria, student interview, parent interview and availability will determine whether you can enrol in the VCAL.**

The Edmund Rice Pathways Program and VCAL Intermediate take advantage of the excellent facilities both within and nearby the Parade College Preston Campus.

### ***VCAL Intermediate Codes***

- Literacy skills (Intermediate): 1vLS & 2vLS
- Numeracy skills (Intermediate) : 1vNS & 2vNS
- Work related skills (Intermediate) : 1vWS & 2vWS
- Personal development skills (Intermediate) : 1vPD & 2vPD
- Certificate I of Business & Vocational Preparation: 1vBV & 2vBV
- VET Certificate or Industry-specific training

### ***VCAL Senior Codes***

- Literacy skills (Senior): 3vLS & 4vLS
- Numeracy skills (Senior): 3vNS & 4vNS
- Work related skills (Senior) : 3vWS & 4vWS
- Personal development skills (Senior) : 3vPD & 4vPD
- Certificate II of Business: 3vBV & 4vBV
- VET Certificate or Industry-specific training