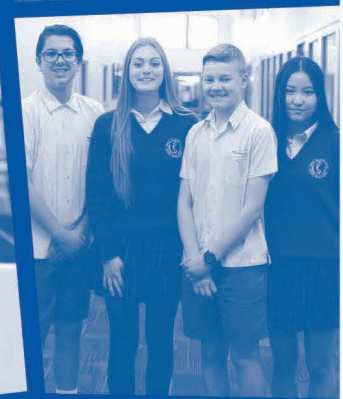


# Rosehill Secondary College

# TEN

# 2019

## COURSE SELECTION HANDBOOK



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# INDIVIDUAL COURSE OF STUDY FOR ALL YEAR 10

The central aim of all curriculum, what is taught and how it is taught, at Rosehill Secondary College is to improve student outcomes. The Year 10 curriculum structure for 2017 has been designed to reflect this aim by providing students with access to a broad, comprehensive academic program and opportunities to enhance their creative and practical aspirations.

The College has an extensive elective program at Year 10 level. Students are provided with a structure that removes some of the restrictions placed on them during Years 7, 8 and 9, whilst ensuring access to curriculum across all Learning Areas.

Each Year 10 student will study three CORE units (English, Mathematics and Interdisciplinary Studies) which run for two semesters and eight ELECTIVE semester-length units (four per semester) selected from a range provided by each of the learning areas (The Arts, Science, Humanities, Health and Physical Education, Languages and The Technologies). All units are studied for three periods per week, with the exception of Interdisciplinary Studies (ID), which is undertaken for two periods per week. Interdisciplinary Studies covers topics such as careers education, drivers' education, sex education, work experience preparation and civics.

It is expected and recommended that all students complete units of study from each learning area. Any student seeking an exemption from completing a unit of study from a particular learning area will need to discuss their course plans with the school's Careers Coordinator to ensure that they are not limiting their opportunities, and then have an exemption form signed by the relevant learning area leader and a member of the senior school team.

## ENHANCEMENT PROGRAM

Rosehill Secondary College offers the opportunity for Year 10 students to commence their VCE studies during Year 10 through the Enhancement Program. Students who have performed well academically, shown sound organisational skills and an ability to work independently, shown sound time management skills and an ability to meet all deadlines, and have a good attendance and punctuality record, will be recommended to apply for the Enhancement Program. If a student undertakes this sequence it will take the place of two ELECTIVE units.

# CURRICULUM STRUCTURE

## Year 10 Units of Study

### Core

- English
- Mathematics
- Interdisciplinary Studies

### Semester Electives

- Geography
- History
- Legal Studies
- Business Studies
- Economics
- Philosophy
- Italian 1
- Italian 2
- Destinazione Italia
- Japanese 1
- Japanese 2
- Let's Discover Japan
- Advanced Science 1
- Advanced Science 2
- Practical Science
- Art
- Extending Your Folio
- Visual Communication Design
- Media Studies 1
- Advanced Media Studies
- Drama
- Dance
- Dance For Boys
- Classroom Music
- Health and Development
- Introduction to Outdoor Education
- Recreational Pursuits
- Physical Education
- Food Technology
- Textile Technology
- Materials Technology
- Systems Technology
- Advanced Food Technology
- Advanced Materials Technology
- Advanced Systems Technology
- Advanced Computer Applications and Programming
- Trigonometry and Calculus 1
- Trigonometry and Calculus 2
- Literature
- Research and Investigation
- Robotics

### VCE Units for recommended students

- Italian 1 & 2
- Biology 1 & 2
- Physical Education 1 & 2
- Outdoor and Environmental Studies 1 & 2
- Business Management 1 & 2
- Geography 1 & 2
- History 1 & 2
- Art 1 & 2
- Studio Arts 1 & 2
- Legal Studies 1 & 2
- Health and Human Development 1 & 2
- Psychology 1 & 2
- Accounting 1 & 2
- Visual Communication Design 1 & 2

Other VCE units will be considered on an individual basis.

# CORE AND ELECTIVE NUMBER OF PERIODS

## Semester 1

## Semester 2

### **CORE all year**

English 3 periods

Mathematics 3 periods

Interdisciplinary Unit 2 periods

Elective - A range of units to choose from all learning domains - 3 periods a week

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It is recommended that students undertake units from all learning areas (The Arts, Science, Technology, Health and Physical Education, Humanities and Languages). Students seeking an exemption from this requirement will need to discuss their course plans with the Careers Coordinator to ensure they are not limiting their opportunities, and have an exemption form signed by the relevant learning area leader and a member of the senior school.

# SPECIAL REQUIREMENTS

## Visual Communication Design

Due to the digital nature of this subject, students will need to have the Adobe suite of programs loaded onto their laptops at the beginning of the Semester. This will be provided free of charge by the College IT Department. Students will also be required to have printing credit on their PaperCut accounts.

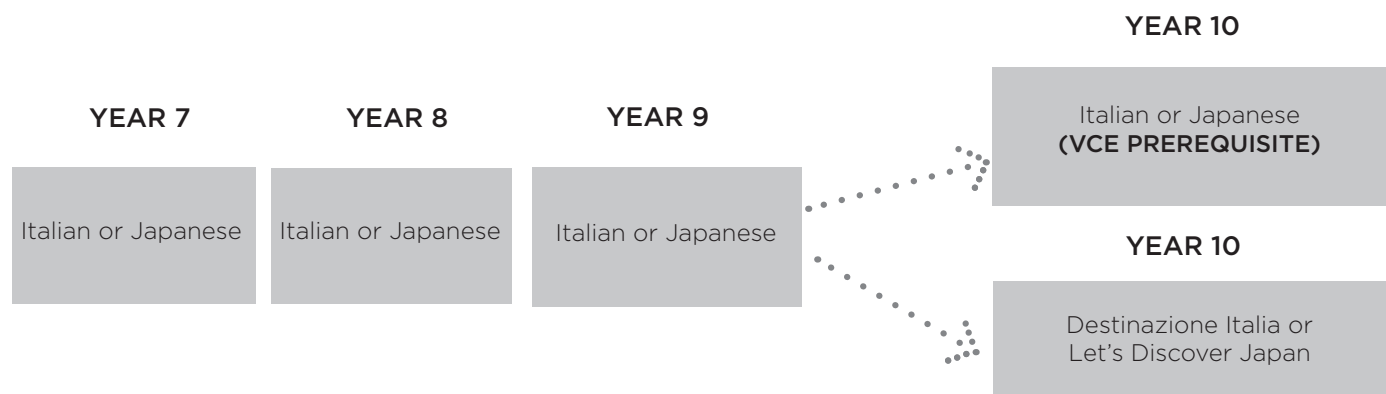
## Languages

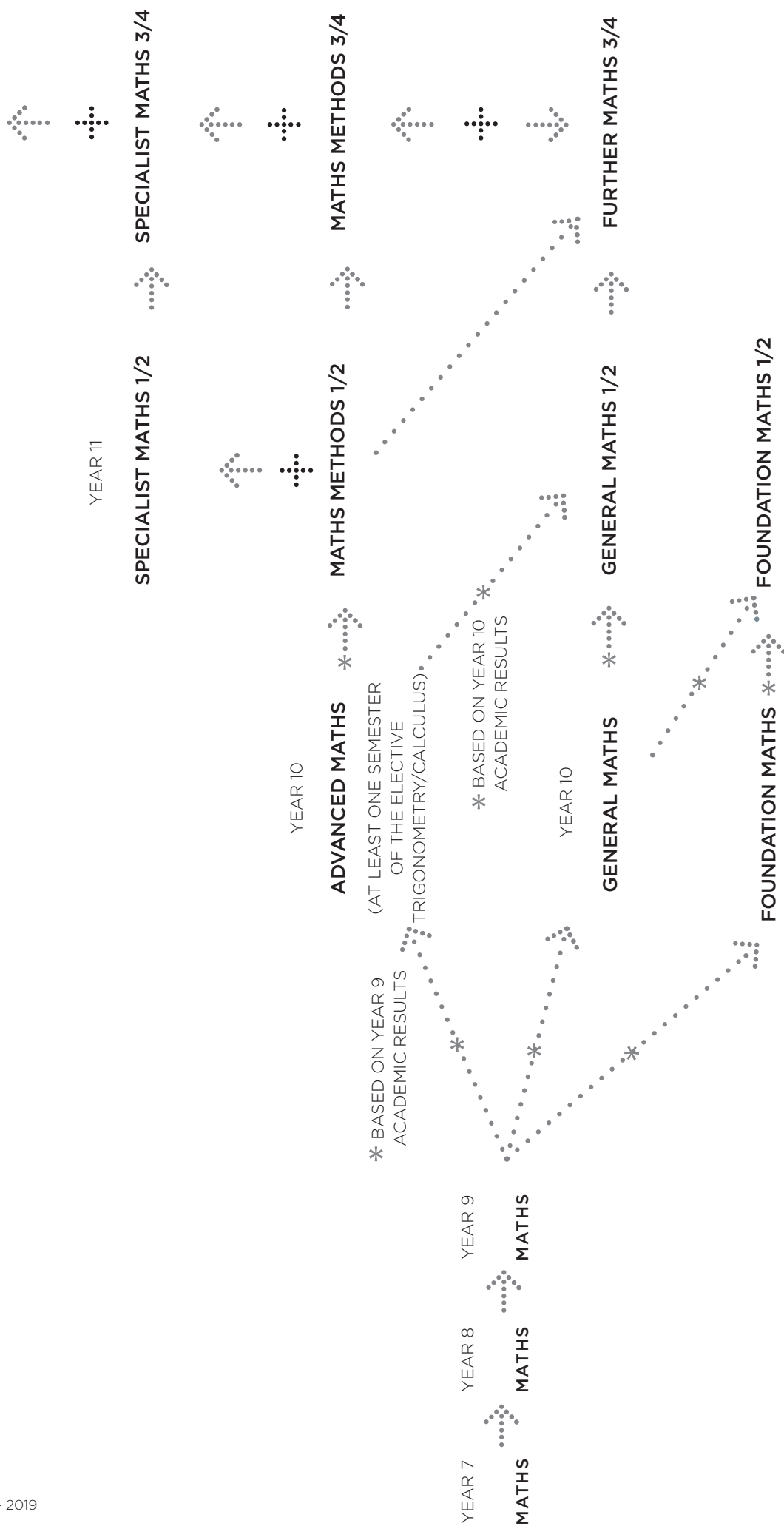
1. At least one unit of Languages must be studied in Year 10.
2. Students may do two units of Languages in one year. In this case there may be a need to place students in another year level for Languages, depending on how many students choose to study two units in any given year.
3. Students who wish to go on to VCE Languages must successfully complete Year 10 Languages 1 and 2. Students who have completed less than five units and have some language background or other studies in Italian or Japanese, and wish to enrol in VCE, must sit an interview with their Languages teacher.
4. Students who are studying a Language at a Victorian School of Languages (VSL) Centre on Saturdays may request exemption from the Rosehill Year 10 Languages requirement to do at least one unit of Italian or Japanese. Requests for exemption must be made to Assistant Principal Mr Arthur Soumalias.

## Year 10 Languages Units

- Students are required to study Languages in a sequence from Year 7 to Year 10, so they **cannot change language after Year 7** unless they are approved as having the required language skills by an appropriate Languages teacher.
- Students must pick at least one semester of Languages and they may choose either ITALIAN 1, or DESTINAZIONE ITALIA for Italian, and JAPANESE 1 or LET'S DISCOVER JAPAN.
- Students who are preparing for VCE MUST complete BOTH ITALIAN 1 and ITALIAN 2 or JAPANESE 1 and JAPANESE 2).

## LANGUAGES PATHWAYS





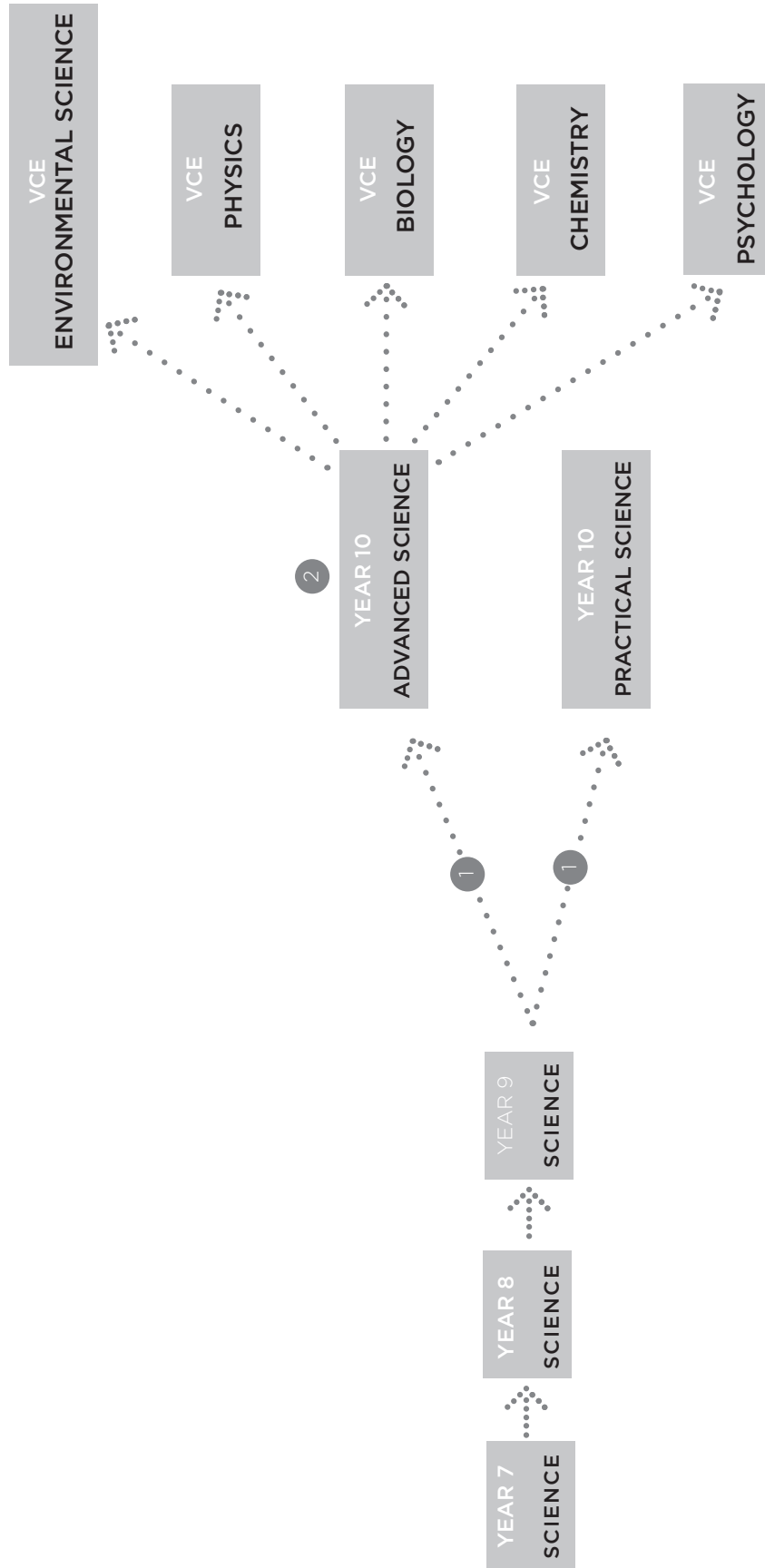
\* YEAR 9 ACADEMIC RESULTS IN TESTS, EXAMS AND EXAMS AND NAPLAN WILL BE USED TO DETERMINE ENTRY INTO YEAR 10 MATHEMATICS CLASSES.

\* YEAR 10 ACADEMIC RESULTS IN TESTS, EXAMS AND THE YEAR 10 APTITUDE TEST WILL BE USED TO DETERMINE ENTRY INTO YEAR 11 MATHEMATICS CLASSES.

STUDENTS MAY ELECT TO STUDY NO MATHS AT YEAR 11

STUDENTS MAY ELECT TO STUDY NO MATHS AT YEAR 12

# SCIENCE PATHWAYS



**1** Year 9 academic results in projects, tests and exams will be used to determine which stream of science you can complete at year 10.

**2** Year 10 Advanced Science academic results in projects, tests and exams will be used to determine which stream of VCE science you can complete. Please note students must complete both semesters of Advanced Science to be eligible for VCE.

Note: Students may elect to complete no science at Year 11 or Year 12



# CORE UNIT DESCRIPTIONS

## ENGLISH 1 & 2

**Reading and Viewing:** Students explain how the choice of language features, images and vocabulary contributes to the development of individual style. They develop and justify their own interpretations of texts. They evaluate other interpretations, analysing the evidence used to support them.

**Writing:** Students develop their own style by experimenting with language features, stylistic devices, text structures and images. Students demonstrate understanding of grammar, vary vocabulary choices for impact, and accurately use spelling and punctuation when editing texts.

**Speaking and Listening:** Students listen for ways in which features within texts can be manipulated to achieve particular effects. They make presentations and contribute actively to class and group discussions building on others' ideas, solving problems, justifying opinions and developing and expanding arguments.

### ***School Assessed Coursework***

- Text Response
- Writing and Language Development
- Using Language to Persuade
- Exam

## ENGLISH AS AN ADDITIONAL LANGUAGE (EAL)

Secondary EAL students enter school in Australia with a diverse range of educational backgrounds and prior experience with English. Many will be encountering English for the first time. Others will have studied English in their primary or secondary schooling in their country of origin.

Some may have had no schooling related to their first language in written form. These students first need to acquire oral English and basic literacy in English, and will be assessed in Stage SL before moving to Stage S1. EAL teachers report that many of these students acquire oral English very quickly, because of the different aural and memory capacities they have developed through growing up without access to the written word.

### ***School Assessed Coursework***

- Writing and Language Development
- Oral Communication

## MATHEMATICS (FOUNDATION) 1

This unit covers content from the 'Number and Algebra' and 'Measurement and Geometry' strands of the Victorian Curriculum. Students work between Levels 7 to 9 of the Victorian Curriculum, and their pathway may continue onto Year 11 Foundation Mathematics in VCE or VCAL.

**Number** – Students cover fractions, decimals and percentages, and their use in practical contexts.

**Measurement** – Students cover conversion of units, perimeter, area and volume of simple shapes and their use in practical contexts.

### *School Assessed Coursework*

- Topic Tests
- Application Tasks
- Exam

## MATHEMATICS (FOUNDATION) 2

This unit covers content from the 'Number and Algebra', 'Measurement and Geometry' and 'Statistics and Probability' strands of the Victorian Curriculum. Students work between Levels 7 to 9 of the Victorian Curriculum, and their pathway may continue onto Year 11 Foundation Mathematics in VCE or VCAL.

**Pythagoras and Trigonometry** – Students use Pythagoras' Theorem and trigonometric ratios to solve problems in practical contexts.

**Statistics** – Students use a range of techniques to display and analyse univariate data.

**Financial Mathematics** – Students study salaries, wages and simple interest and their application in real world contexts.

### *School Assessed Coursework*

- Topic Tests
- Application Tasks
- Exam

## MATHEMATICS (GENERAL) 1

This unit covers content from the 'Measurement and Geometry' and 'Number and Algebra' strands of the Victorian Curriculum. Students will complete the following topics:

**Number** – Students explore Index Laws.

**Measurement** – Students explore total surface area and volume of composite solids.

**Algebra** – Students expand and factorise binomial expressions.

**Financial Maths** – Students explore salaries and wages, simple and compound interest, inflation and taxation.

### *School Assessed Coursework*

- Topic Tests
- Application Tasks
- Exam

## MATHEMATICS (GENERAL) 2

This unit covers content from the 'Measurement and Geometry', 'Statistics and Probability' and 'Number and Algebra' strands of the Victorian Curriculum. Students will complete the following topics:

**Pythagoras and Trigonometry** – Students use Pythagoras' Theorem and trigonometric ratios to solve problems in practical contexts including bearings and angle of depression and elevation.

**Geometry** – Students explore and apply congruence and similarity of shape.

**Algebra** – Students graph linear equations and inequalities and solve linear equations, inequalities and simultaneous equations.

**Statistics** – Students use a range of techniques to display and analyse univariate data, including box plots and cumulative frequency curves.

### *School Assessed Coursework*

- Topic Tests
- Application Tasks
- Exam

## MATHEMATICS (ADVANCED) 1

This unit covers everything in Mathematics (General) - MA105 as well as:

- Surds and rationalising surds
- Completing the square to solve quadratic equations
- Rational indices
- Exponential graphs and equations
- Logarithmic graphs and equations
- Sketching circles, hyperbolas and regions of plane
- Permutation and combination

### **School Assessed Coursework**

- Topic Tests
- Application Tasks
- Exam

## MATHEMATICS (ADVANCED) 2

This unit covers everything in Mathematics (General) - MA106 (except for Financial Mathematics) as well as:

- Logarithmic laws
- Operations on Polynomials
- Remainder theorem and factor theorem
- Sketching polynomials
- Functions and inverse functions
- Trigonometric ratios of any size angle
- The sine and cosine rule
- Direct and inverse variation
- Statistics with bivariate data, time series and line of best fit

### **School Assessed Coursework**

- Topic Tests
- Application Tasks
- Exam

## INTERDISCIPLINARY STUDIES

Year 10 Interdisciplinary Studies focuses around three main areas. Personal Development, Career Planning and Health Education. The aim is for students to continue to develop skills and abilities relating to problem solving and their personal growth and resilience. Students will also have the opportunity to prepare for future education pathways and to explore issues to increase knowledge of adolescent health. Topics and activities include:

### **1. Personal Development**

- Identity
  - Sense of belonging and purpose
  - Values
- Civics and Citizenship
  - Democracy
  - Voting
  - Campaigning for community issues
- Drivers Education
  - Key Please Session
  - Road and driver safety

### **2. Career Planning**

- Occupational Health and Safety Training
- Work Experience (two-week placement)
- Careers
  - VCE/VCAL subject selection
  - Pathway preparation for future education
  - Melbourne Career Expo

### **3. Health Education**

- Drug Education
  - Drug classifications
  - Risk taking behaviours
  - Decision making
- Sexuality Education
  - Respectful relationships
  - Contraception
  - Sexually Transmitted Infections
  - Health services
- Gender Equality

### **School Assessed Coursework**

- Classwork
- Presentations (group and individual)
- Assignments

# ELECTIVE UNIT DESCRIPTIONS - HUMANITIES

## GEOGRAPHY

This unit focuses on environmental values and human and natural influences causing environmental change. Students investigate the natural landscape and management strategies that may lead to a more sustainable future. Students analyse human wellbeing in various regions of the world and investigate different ways of measuring and mapping human wellbeing and development, and how these can be applied to measure differences between places. They investigate the factors that influence a country's level of human wellbeing. Students investigate issues affecting the development of places and their impact on human wellbeing. Topics include Disease, Conflict and Gender at a local and global scale.

Students will focus and investigate causes and consequences of environmental change and look at environmental, economic and technological factors that influence environmental change and human responses to its management. There will be a focus on the impacts humans have on the environment.

Students use digital data and a variety of maps to analyse the physical and human impact on our world. They will continue to develop skills in selecting, organising and representing data and information in different forms.

### ***School Assessed Coursework***

- Fieldwork Report
- Research Project
- Work Portfolio
- Exam

## HISTORY

This unit focuses on Australia in its global context from 1918 to the present. Students study three depth studies: World War Two; Rights and Freedoms which focuses on Indigenous Australian history and the process of reconciliation; and The Globalising World which allows students to build on their knowledge of waves of migration from Year 9 Humanities by assessing the impact of changing government policies and world events, such as the Vietnam War, on Australia's national identity and its international relationships. Students will develop historical concepts and skills through assessing continuity and change and cause and effect, questioning different perspectives, analysing source material and building empathy.

### ***School Assessed Coursework***

- Assignments
- Workbook
- Source Analysis
- Exam

## LEGAL STUDIES

This unit will focus on a number of areas pertaining to the Australian Legal System. Students will be informed of the operations of our legal system and be able to evaluate its effectiveness and their rights in dealing with the law. The topics that will be studied include the following: the nature and function of laws; elements of justice including fairness, equality and access; the law-making process – parliament and the courts; the Victorian court hierarchy and court processes; the jury system; young people and the law; police powers v. citizens' rights; criminal law – looking at elements of a crime, murder / manslaughter, forensics and criminal investigation, and defences to a murder. A range of other criminal offences and case studies will also be examined as well as punishments and sentencing. Under civil law students will be studying contract law and the law of torts including the following: negligence, defamation (libel and slander); trespass (property / land, goods and person) and nuisance (private and public). Students will also be able to complete individual research and investigative work on an area of civil law of their choice.

### ***School Assessed Coursework***

- Assignments
- Workbook
- Tests
- Exam

## BUSINESS & ECONOMICS

At the heart of every economy is business. Business is about producing goods or providing services in exchange for money. In the 21st Century, young people will need to adapt to change and seek new and innovative ways to do business in a global market place. Students investigate the ways that enterprising behaviours and capabilities can be used and developed to improve the work and business environments. They examine the role of innovation and its influence on business success and discuss how businesses seek to create and maintain a competitive advantage in the market, including the global market. Students consider the performance of the Australian economy and the business sector and how these might be measured in different ways. Students explain the importance of managing consumer and business financial risks and rewards and analyse the different strategies that may be used when making decisions.

### ***School Assessed Coursework***

- Assignments
- Workbook
- Tests
- Exam

## PHILOSOPHY

This unit will focus on exploring essential questions like:

1. What is the mind?
2. What is real?
3. What is right or wrong?

Students will study various philosophers, such as Plato, Immanuel Kant and Mills, who have contributed various answers to these questions. Additionally, students will have the opportunity to develop their own ideas about reality, the mind and ethics. Human Rights philosophy will also be a major focus of study as students explore different human rights documents and develop an informed and reasoned evaluation of them.

### ***School Assessed Coursework***

- Assignments
- Essays
- Workbook
- Exam

## ITALIAN 1

This unit is an extension of Year 9 Italian. Students wishing to continue to VCE Italian must complete this unit. Students will expand their knowledge of Italian grammar and enhance their reading, writing, listening and speaking skills. It is expected that the students will use more of the target language in the classroom and develop more general conversation and survival skills in their second language. Students will be able to further develop their writing skills and expand their research skills in Italian. Grammar will be taught in a more formal way. Students will be involved in digital presentations such as producing materials and performing short role-plays. Topics covered will include Health and Fitness, and Leisure. Students will also study aspects of Italian History, Geography and Culture such as Celebrations, Regions and Cities of Italy, and an Italian Film Study.

### ***School Assessed Coursework***

- Listening and Reading Comprehension
- Speaking Tasks
- Writing Folio
- Exam

## ITALIAN 2

This unit is designed for students who have completed all four core units of Italian and may wish to continue to VCE Italian. Students will be encouraged to further develop their knowledge of the Italian language by exploring the Italian media and studying Italian film. It is envisaged that there will be an increased use of the Italian language in the conduct of classroom lessons and more formal grammar learning, as the students undertaking this unit will have a reasonable proficiency and grasp of the Italian language. Themes covered will include Holidays and Tourism, Travelling in Italy, and Communication and Media. Students will acquire sophisticated language for writing essays, reading documents and itineraries, planning an event and expressing opinions. Italian culture will also be studied, for example Italian Migration, Italian Music, and Cinema and Entertainment.

### ***School Assessed Coursework***

- Listening and Reading Comprehension
- Speaking Tasks
- Writing Folio
- Exam

## DESTINAZIONE ITALIA

This unit is for Year 10 students who are not preparing for VCE studies in Italian. Students will further develop their listening, reading, speaking and writing skills. The course will review simple grammatical structures as well as extend vocabulary for using the language in everyday situations. Students will be able to negotiate some activities such as planning a lunch, producing their own materials, performing short role-plays and/or making short digital stories. Topics covered will include Health and Fitness, and Leisure. Students will also study aspects of Italian History, Geography and Culture such as Celebrations, Regions and Cities of Italy, and an Italian Film Study.

### ***School Assessed Coursework***

- Listening and Reading Comprehension
- Speaking Tasks
- Writing Folio
- Exam

## JAPANESE 1

This unit is an extension of Year 9 Japanese. Students who feel confident in reading and writing hiragana and katakana should choose this unit. Students wishing to continue to VCE Japanese Second Language must complete this unit. Students will expand their knowledge of Japanese grammar and enhance their reading, writing, listening and speaking skills. It is expected that the students will use more of the target language in the classroom and develop more general conversation and survival skills in Japanese. Students will be encouraged to further develop their knowledge of the Japanese language by studying the following topics: Summer Holidays, School and Study, Shopping, Daily Routines and Friends in Japan. More kanji scripts will be introduced.

### ***School Assessed Coursework***

- Listening and Reading Comprehension
- Speaking Tasks
- Writing Tasks
- Exam

## JAPANESE 2

This unit is designed for students who have completed Japanese 1 and may wish to continue to VCE Japanese Second Language. Students will be encouraged to further develop their knowledge of the Japanese language through the following topics: Family and Friends, Pastimes and Leisure, Japanese Fashion and Housing. It is envisaged that there will be an increased use of the Japanese language in the conduct of classroom lessons and more formal grammar learning, as the students undertaking this unit will have a reasonable proficiency and grasp of the Japanese language. More kanji scripts will be introduced.

### ***School Assessed Coursework***

- Listening and Reading Comprehension
- Speaking Tasks
- Writing Tasks
- Exam

## LET'S DISCOVER JAPAN

This unit is for Year 10 students who are not intending to take further Japanese classes for the VCE. Students will learn about the culture of Japan through films with a focus on the topic of families or other areas of student interest rising from the films viewed. The culture components will assist with the concepts in English, Humanities, Media Studies and Intercultural Studies. Students will also consolidate their Year 9 Japanese language skills of reading, writing, listening and speaking. They will extend their Japanese vocabulary from the films being studied.

### ***School Assessed Coursework***

- Reading and Writing Japanese
- Listening and Speaking Japanese
- Intercultural Studies
- Exam

## ADVANCED SCIENCE 1 (FOR ALL VCE SCIENCES)

Students who wish to study any Science subject in VCE must complete this unit and Advanced Science 2 in Year 10.

**Evolution and Features of the Universe** – Students study and understand that the universe contains features including galaxies, stars and solar systems and that the Big Bang theory can be used to explain the origin of the universe.

**Motion** – Students describe the relationships between force, mass, acceleration and velocity using quantitative data. Students will also study how Newton's three laws of motion apply in practical and theoretical situations.

**Heredity** – Students study the mechanism of inheritance and cell division and how this can be manipulated by human intervention.

**Exploring Chemical Reactions 1** – Through investigation, students understand that the production of many materials useful to society relies on an understanding of chemistry.

### *School Assessed Coursework*

- Assignments
- Unit Tests
- Practical Work
- Exam

## ADVANCED SCIENCE 2 (FOR ALL VCE SCIENCES)

**Evolution** – Students evaluate the theories and evidence concerning the evolution of organisms. They also describe advances in technology, which have led to further evidence for evolution.

**Exploring Chemical Reactions 2** – Through investigation, students understand that the production of many materials useful to society relies on an understanding of chemistry.

**Climate Change** – Students study how the earth's climate is governed by intricately balanced biogeochemical cycles, which are affected by human activity resulting in global climate change.

**Electricity and Motors** – Students study how electric circuits, electricity and magnetism are fundamentally related and explain how the interaction between a changing magnetic field and a coil can be used to generate electricity.

### *School Assessed Coursework*

- Assignments
- Unit Tests
- Practical Work
- Exam

## PRACTICAL SCIENCE

This unit is designed for Year 10 students who do not wish to study a Science subject in VCE.

**Forensics** – Students investigate a variety of forensic analysis techniques used to solve crimes.

**Need for Speed** – Students describe the relationships between force, mass, acceleration and velocity, using a variety of experiments.

**Psychology** – Students examine the difference between the brain and the mind, investigating emotions, psychological conditions and memories. Students undertake an investigation comparing group and individual psychology. They conduct practical work to investigate optical illusions and what these show about how we think. The practical component of this topic includes a brain dissection.

**Chemical Pathways** – Through investigation, students understand the basic properties of chemical reactions. Students also learn about the chemical make-up of a number of household products and describe their uses in relation to their properties.

### *School Assessed Coursework*

- Assignments
- Unit Tests
- Practical Work
- Exam



## ART

Students will learn about a selection of art-making techniques such as drawing, painting, collage and printmaking. They will investigate the work of artists from a variety of times and places and will continue to use their folio to document their research and development of skills. Students continue to analyse and interpret the messages that are communicated within artworks from different cultural, historical and social contexts.

This subject should be selected by (but isn't restricted to) students who intend to study Art or Studio Arts at a VCE level. It can be selected in addition to, or instead of Year 10 Extend Your Art.

### **School Assessed Coursework**

- Folio
- Art Literacy
- Exam
- Final Presentations

## EXTENDING YOUR FOLIO

Extending Your Folio builds upon and extends students' existing Art knowledge and skills.

Students will learn about a selection of art-making techniques such as drawing, painting, collage, mixed media and photography. They will investigate the work of artists from a variety of times and places and will continue to use their folio to thoroughly document their research and development of skills. Students continue to analyse and interpret the messages that are communicated within artworks from different cultural, historical and social contexts.

This subject should be selected by (but isn't restricted to) students who intend to study Art or Studio Arts at a VCE level. It can be selected in addition to, or instead of Year 10 Art.

### **School Assessed Coursework**

- Folio
- Art Literacy
- Final Presentations
- Exam

## VISUAL COMMUNICATION DESIGN

Students further develop their understanding of the design elements and principles. They use this knowledge to discuss and analyse designs. They work through design processes, producing industrial (product), communication (print) and environmental (architectural) designs. Students practice a range of rendering techniques and learn the process of producing a range of technical drawings. All work is documented in their design folio.

Some work in this subject is undertaken on student laptops using Adobe Illustrator (supplied by the school), so a laptop and printing credit are essential requirements.

### **School Assessed Coursework**

- Folio
- Design Literacy
- Exam
- Final Presentations

## MEDIA STUDIES 1 – FILM AND PHOTOGRAPHY

This subject will provide students with the opportunity to plan and create a range of media products that explore how a variety of story and production techniques can be used and manipulated to engage audiences. Students will explore and experiment with a range of photographic, lighting and image manipulation equipment and techniques to build a folio of their photographic work. Individually and collaboratively, students create several short mixed media and video productions. Students will undertake an in-depth analysis of a number of professionally produced films and will also investigate the potential for the media to influence audiences with a particular focus on the advertising industry.

### **School Assessed Coursework**

- Media Production (Final Products)
- Media Analysis Tasks
- Production Planning Documents
- Exam

## ADVANCED MEDIA STUDIES

This unit will only run in Semester 2. To choose this unit students **must have EITHER completed a media subject in Year 9 OR enrol in Media Studies 1 in Semester 1.**

Advanced Media Studies builds upon and extends students existing Media Studies knowledge and skills. Students will apply their knowledge of media production principles in order to create a number of short films that suit a range of purposes, contexts, audiences and styles. Students will look at the ways that their own and others' media products communicate and challenge ideas and meaning. Students will also study the relationship between the media and audiences through the discussion of topics such as censorship, violence in the media and the role that new technologies have played in changing the way people create, distribute and access the media.

### ***School Assessed Coursework***

- Media Production (Final Products)
- Media Analysis Tasks
- Production Planning Documentation
- Exam

## DRAMA

This unit aims to build upon the drama skills students learnt in the previous drama unit as well as prepare students for VCE Drama. The unit will concentrate on performance and analysis of performance. It aims to engage students in active learning and build students' confidence. Students will concentrate on non-naturalistic performance style, dramatic elements, theatrical conventions, script writing, creating drama from a wide variety of social, political, historical and cultural stimulus, acting technique, individual and group performance and journal writing. There will also be a research project. Students will have the opportunity to see a professional theatre performance.

### ***School Assessed Coursework***

- Journal and Research
- Live Performance
- Performance Analysis
- Exam

## DANCE

In Year 10 dance, students continue to develop the skills, technique and collaborative processes that began in younger years. The students are encouraged to enhance their exploration of movement through a series of improvisation tasks that enable the student to discover new themes, ideas and concepts related to dance making. Students will independently research a dance style, its history and technique unique to this style. As part of their assessment, they will teach a short sequence to the rest of their class. As a result, students are exposed to learning a wide variety of dance styles, as well as enhancing their communication and leadership skills. Students are then asked to develop their own personal style and movement vocabulary in a solo assessment dance work, and collaborate with a small group in creating another short dance piece.

### ***School Assessed Coursework***

- Exam
- Group Work
- Research Project and Presentation
- Solo

## DANCE FOR BOYS

This unit is specifically designed for Year 9 and 10 boys who are interested in learning how to dance. During this unit, boys will be encouraged to learn and create movements in the hip hop and break dancing genres. They will develop technical and performance skills through the learning of a whole class dance routine. Students will apply dance making or choreographic processes in a group work assessment task and refine their performance and rehearsal skills through the performance of their collaborative work. Students will also study and analyse different male dancers work through video analysis and male guest teachers.

### ***School Assessed Coursework***

- Learnt Work
- Group Work
- Participation
- Video Analysis / Theory Assignment
- Exam

## CLASSROOM MUSIC

This is an introductory VCE course for students who may be interested in taking units in VCE Music Performance. Sessions are divided equally between theory, practice and aural lessons, as students begin to analyse performance pieces. Students continue developing musicianship skills on their chosen instrument and research appropriate practice techniques, preparing them for performance.

*It is compulsory for all students in this unit to be involved in a school ensemble and are taking lessons on their chosen instrument, with at least two years practice on it prior to commencing the unit.*

### **School Assessed Coursework**

- Music Language
- Preparing for Performance
- Performance
- Exam

# PHYSICAL EDUCATION AND HEALTH

## HEALTH AND DEVELOPMENT

Those students who are considering VCE Health and Human Development are strongly encouraged to undertake this unit. The course work provides an opportunity for students to engage in physical activity without participating in traditional team sports. This unit aims to increase students' confidence, self-esteem and leadership qualities whilst building a solid foundation for VCE Health and Human Development.

Students will be exposed to the following activities/topics:

- Dimensions of health
- Development through the lifespan
- Anatomy & physiology
- Nutrition

### **School Assessed Coursework**

- Health Test
- Human Development Assignment
- Sociocultural Factors Assignment
- Exam

## INTRODUCTION TO OUTDOOR EDUCATION

Students will have the opportunity to explore a variety of safe outdoor environments that promote fun, challenging and educational experiences. This unit emphasizes environmental awareness, safety, teamwork and the development of individual confidence, self-esteem and leadership qualities. The course will teach the necessary skills required for students to successfully participate in a variety of excursions and at least one camp at the end of semester. Activities may include:

- Initiatives
- Rock climbing
- Snorkelling
- Basic First Aid
- Skill Development
- Leadership Skills
- Map reading and Navigation Skills
- Classroom Activities and Discussions
- Compass Skills
- Bushwalking
- Paddling
- Camping Skills
- Minimal Impact Skills

### **School Assessed Coursework**

- Completion of Theory Tasks and Workbook
- Skill Development
- Major and Minor Assessment Tasks
- Exam

## RECREATIONAL PURSUITS

This unit is designed for those students who are not interested in studying VCE Physical Education or Health and Human Development. This unit recognizes the benefits of and enjoy regular physical activity beyond the traditional mainstream sports. Students will be exposed to the following recreational activities as well as completing a related theory component.

- Ten Pin Bowling
- Golf
- Darts
- Indoor Activities
- Table Tennis
- Ultimate
- Tennis
- Billiards
- Gym
- Squash

### **School Assessed Coursework**

- Skill Development
- Benefits of Physical Activity Assignment
- Research Assignment
- Exam

## PHYSICAL EDUCATION

Those students who are considering VCE Physical Education are strongly encouraged to undertake this unit. The topics of anatomy, physiology, body systems, training principles and sport science are examined using both practical and theoretical activities. The objective of this unit is to give students confidence and a basis to achieve great results in VCE Physical Education.

This unit incorporates the following sports as part of an integrated learning program:

- Volleyball
- Tennis
- Baseball
- Basketball
- Golf
- Table Tennis
- Weight Training
- Hockey
- Netball
- Football

### **School Assessed Coursework**

- Musculoskeletal Test
- Cardiorespiratory Test
- Sport Science Assignment
- Exam

## FOOD TECHNOLOGY

Year 10 Food Technology adopts a closely related theoretical and practical approach to learning. Students will investigate and explore how the principles of food safety, preservation, preparation, presentation and sensory perceptions influence the creation of food solutions for healthy eating. They will develop a comprehensive understanding of the major food nutrients and will apply this information to generate and evaluate food products. Students will consider current trends in the nutritional status of Australians and will investigate nutritional and lifestyle factors that influence food selection for groups with special dietary needs. During weekly production sessions, students will produce a range of food items. They will have the opportunity to develop and improve their food preparation, cooking and presentation skills. Students will use the design process to investigate, generate, plan and manage, produce and evaluate a range of designed solutions in response to specific design brief scenarios. These can vary in complexity depending on the student's ability.

### ***School Assessed Coursework***

- Investigation
- Food Portfolio
- Food Preparation Skills
- Design Brief/s
- Exam

## ADVANCED FOOD TECHNOLOGY

### **Prerequisite – Successful completion of Year 10 Food Technology.**

Year 10 Advanced Food Technology adopts a closely related theoretical and practical approach to learning. This unit is designed as a prerequisite for the study of VCE Food Studies. Students must display a genuine interest in the area and demonstrate the necessary skill level to attempt more creative and complex food products. The ability to work in a focused, independent manner is required. Students will be expected to develop their understanding and application of nutrition principles and extend and refine their knowledge and implementation of food preparation skills, cooking methods, plate presentation and food styling techniques. Students will investigate the properties of food and be able to link this to the various functions they have in food preparation. Aspects of the Food Industry such as new product development, functional foods, labelling and packaging will also be explored. Students will use the design process to investigate, generate, plan and manage, produce and evaluate a range of designed solutions in response to specific design brief scenarios. These can vary in complexity depending on the student's ability.

### ***School Assessed Coursework***

- Investigation
- Food Portfolio
- Food Preparation Skills
- Design Brief/s
- Exam

## MATERIALS TECHNOLOGY

This unit will offer advanced skills in working with the range of materials that are commonly used in the Technology area. Students will be working with a variety of materials, tools and processes to investigate, design and construct products which have been developed to meet the requirements of teacher set design briefs. During the course of this unit, students will be instructed in the safe use of complex tools and processes, with a focus on helping them to achieve outcomes independently and in group situations.

### ***School Assessed Coursework***

- Investigation
- Production Skills
- Design Folio/Briefs
- Exam

## ADVANCED MATERIALS TECHNOLOGY

In this unit, students will further enhance and develop skills developed in the first Design, Creativity and Materials Technology unit. They will implement a variety of processes which will lead to the development of a product that meets the guidelines set by the teacher. Students will be required to use a number of processes to design, produce, test and evaluate products and processes completed throughout the entire development of the product. Tasks will include: technical drawing, Computer Aided Design, advanced practical skills and manufacturing methods. Students will be encouraged to work more independently and safely in response to teacher instructions.

This unit will help to prepare students who wish to undertake studies in VCE Product Design and Technology and manufacturing based studies in VCAL.

### ***School Assessed Coursework***

- Investigation
- Production Skills
- Design Folio / Briefs
- Exam

## TEXTILE TECHNOLOGY

Through enquiry and investigation, students will further expand their knowledge and understanding of textile materials, processes and terminology. Students will extend their skills in fabric manipulation and shaping techniques. They will select and use a range of fastenings and investigate and use a more complex range of decoration techniques to complement their products. Students continue to make use of commercial patterns as well as create their own patterns to design and create a range of textile items. Practical skills are enhanced through a range of focused practical tasks. Students will revisit the design process and complete a major design brief where they will investigate, generate, plan and manage, produce and evaluate a corset. This task can vary in complexity depending on the student's ability.

### ***School Assessed Coursework***

- Investigation
- Folio - design
- Folio - production and evaluation
- Exam

## SYSTEMS TECHNOLOGY

This unit aims to instruct students in Systems Technology with a focus on electrical and electronic processes and systems. Students will develop an understanding of the fundamental principles of electrical and electronic circuits, collectively and commonly referred to as electrotechnology. While this unit contains the basic understanding of electrotechnology systems and how they work, the main focus is on the investigation, design, construction and evaluation of operational electrotechnology systems. Students will use complex tools, equipment, materials and systems components and will implement a range of production processes accurately, consistently and safely based on their understanding of the relationship between inputs, processes and outputs. They will effectively use information and communications technology equipment, techniques and procedures to support the development of their design, planning and evaluation.

### ***School Assessed Coursework***

- Investigation
- Production Skills
- Workbook / Journal
- Exam

## ADVANCED SYSTEMS TECHNOLOGY

This unit aims to instruct students in Systems Technology with an integrated approach to mechanical and electrotechnology processes and systems. The focus is on the functional integration of mechanical subsystems with electrotechnology subsystems and the design factors to be considered. Mechanical systems include pneumatic and hydraulic systems and subsystems. Electrotechnology is an inclusive term that includes electrical, electronic and microelectronic systems and subsystems. While this unit contains the fundamental understanding of electrotechnology systems and how they work, the main focus is on the investigation, design, construction and evaluation of controlled integrated technological systems. Students will use complex tools, equipment, materials and systems components and will implement a range of production processes accurately, consistently and safely based on their understanding of the relationship between inputs, processes and outputs. They will effectively use information and communications technology equipment, techniques and procedures to support the development of their design, planning and evaluation.

This unit is essential for students wishing to attempt the VCE Systems Engineering study and should also prepare students for further pathways in this area.

### ***School Assessed Coursework***

- Investigation
- Production Skills
- Workbook / Journal
- Exam

## COMPUTER APPLICATIONS AND PROGRAMMING

This course has been developed as the basis for VCE Computing Units 1 and 2 and VCE Informatics and Software Development Units 3 and 4. Students will develop skills in applications such as Visual Basic, Photoshop, Access, Excel, Dreamweaver, and Project. Each activity will be presented to students as a design brief or in the form of a problem solving activity. Examples of activities and products would include, writing programs in Visual Basic, mail merging techniques, developing electronic order forms, compact disk or video jacket cover designs, simple newsletters, brochures and restaurant menus. Students will also investigate the various roles, publications, technology and structure of a large publishing organization. Computer Networks will also be examined with respect to different types of topology and operating systems.

### ***School Assessed Coursework***

- Folio of Production Tasks
- Multimedia Assignment
- Programming Assignment
- Exam

## ADVANCED COMPUTER APPLICATIONS AND PROGRAMMING

This course has been developed as the basis for VCE Information Technology Units 1 and 2 and VCE Software Development and Informatics Units 3 and 4. Students will develop more advanced skills in applications such as Visual Basic, Access, Excel and Dreamweaver. Each activity will be presented to students as a design brief or in the form of a problem solving activity. Fileservers, routers and network topologies will be examined with respect to creating advanced information systems.

### ***School Assessed Coursework***

- Folio of Production Tasks
- Multimedia / Networking Assignment
- Programming Assignment
- Exam



# ADDITIONAL ELECTIVES

## TRIGONOMETRY AND CALCULUS 1

This unit is available only to students who are completing **Year 10 Mathematics Advanced**. Any student planning to enrol in VCE Units 1 and 2 Mathematical Methods in Year 11 must have completed at least one unit of Trigonometry and Calculus at Year 10.

This course involves studying:

- Applying trigonometry and Pythagoras' theorem in 3D
- Learning about the radian
- Defining the trigonometric ratios using a unit circle
- Establishing relationships between the trigonometric functions
- Knowing the exact trigonometric values of the special angles ( $0^\circ$ ,  $30^\circ$ ,  $45^\circ$ ,  $60^\circ$  and  $90^\circ$ )
- Extending the special angles into the four quadrants and beyond
- Graphing the sine, cosine and tangent functions
- Sketching trigonometric functions with transformations
- Calculating the area of any triangle
- Computing the arc length, sector and segment area of a circle
- Proving the sine and cosine rules for non-right angled triangles

The students will then move on to the study of the fascinating branch of mathematics called Calculus by learning about:

- Function notation
- The limit of a function
- Rates of change
- The gradient of a function using first principles
- Differentiation of polynomials
- Sketching polynomials

### **School Assessed Coursework**

- Topic Tests
- Application Tasks
- Exam

## TRIGONOMETRY AND CALCULUS 2

This unit is a continuation of Trigonometry and Calculus 1. A student must have successfully completed Trigonometry and Calculus 1 before attempting this unit. The focus of this unit is to extend Trigonometry and Calculus 1 by studying:

- The six trigonometric functions
- Simple trigonometric identities
- Compound angle formulas
- Double angle formulas

The student will then move on to enhance their Calculus knowledge by:

- Learning composite functions (function of a function)
- Solving maximum and minimum problems
- Using the chain, product and quotient rules
- Finding the tangents and normal equations
- Discovering the anti-differentiation rule
- Applying integration to find the area under a curve

### **School Assessed Coursework**

- Topic Tests
- Application Tasks
- Exam

## LITERATURE

The study of literature focuses on the enjoyment and appreciation of reading that arises from discussion, debate and the challenge of exploring the meaning of texts. Students will develop an understanding of literature through the study of texts from a range of genres including novels, plays, poems, tales and films. Students will explore themes and ideas and reflect on their interpretations and those of others.

### **School Assessed Coursework**

- Workbook
- Oral Presentation
- Extended Response
- Creative Writing
- Exam

## RESEARCH AND INVESTIGATION

This unit enables students to develop, refine and extend research knowledge and skills and carry out an investigation that focuses on an independent research question. Students decide on a topic they are interested in and develop a research question to investigate. They learn about different research methodologies, do a literature review and collect data before analysing and compiling their findings and then present their findings to an audience. Through this study, students develop their capacity to explore, justify and defend their research findings to an audience in both oral and written forms. In this unit, students have the opportunity to develop critical thinking, research and writing skills that are relevant and transferable to other domains and real world scenarios.

### ***School Assessed Coursework***

- Topic Tests
- Projects and Problem Solving Activities
- Exam

## ROBOTICS

In Robotics, students will engineer and design processes and program robots to solve several set challenges. Students are expected to gain their knowledge and skills whilst working on a variety of projects throughout the semester unit. The use of inductive reasoning will be key to solving set task or challenges.

The students will be evaluated on their ability to follow the design process and how they respond to the challenges they encounter in this process.

Students will focus on:

- Basic to Advanced Programming
- Engineering design process
- Electricity
- Electrical Circuits and their components
- Project based learning (PBL) Challenges
- Extension Challenges

### ***School Assessed Coursework***

- PBL Portfolio
- Tests
- Exam

# UNIT COSTS

## Year 10

Subject	Unit Charges	Additional Costs
English	\$20	
English as an Additional Language	\$20	
Mathematics General	\$30	
Mathematics Advanced	\$30	
Mathematics Foundation	\$30	
Interdisciplinary Studies	\$30	+ \$170 Driver Education
Geography	\$20	
History	\$15	
Legal Studies	\$10	
Business Studies	\$10	
Economics	\$15	
Philosophy	\$15	
Italian 1	\$20	
Italian 2	\$20	
Destinatione Italia	\$20	
Japanese 1	\$20	
Japanese 2	\$20	
Let's Discover Japan	\$20	
Advanced Science 1	\$30	
Advanced Science 2	\$30	
Practical Science	\$30	
Art	\$50	
Extending Your Folio	\$50	
Visual Communication Design	\$40	
Media Studies 1	\$30	
Advanced Media Studies	\$30	
Drama	\$30	
Dance	\$30	
Dance For Boys	\$30	
Classroom Music	\$30	+ \$225 Yearly Instrumental Music Lessons
Health and Development	\$20	
Introduction to Outdoor Education	\$20	+ \$500 Equipment Hire, Excursion & Camp
Recreational Pursuits	-	+ \$100 Excursion Fee + \$15 Booklet
Physical Education	\$20	
Food Technology	\$60	
Advanced Food Technology	\$60	
Materials Technology	\$30	
Advanced Materials Technology	\$30	

Subject	Unit Charges	Additional Costs
Textile Technology	\$50	
Systems Technology	\$30	
Advanced Systems Technology	\$30	
Computer Applications & Programming	\$10	
Advanced Computer Applications & Programming	\$10	
Robotics	\$50	
Trigonometry & Calculus 1	\$30	
Trigonometry & Calculus 2	\$30	
Literature	\$20	
Research & Investigation	\$30	