



 **Rosehill**  
Secondary College

# YEAR 10

COURSE SELECTION HANDBOOK 2014

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# Individual Course of Study for all Year 10

The central aim of all curriculum at Rosehill Secondary College, what is taught and how it is taught, at Rosehill Secondary College is to improve student outcomes. The Year 10 curriculum structure for 2014 has been designed to reflect this central aim.

Rosehill has values of Learning, Initiative and Respect and an emphasis on each student functioning as an individual in attaining excellence. These are key in providing the students with access to a broad, comprehensive academic program, as well as offering them the opportunity to enhance their creative and practical aspirations.

Students have access to curriculum across all Learning Areas. The College has an extensive elective program at Year 10 level. During 2014 your child will be provided with a structure that takes away some of the restrictions placed on them during Year 7, 8 and 9.

All Year 10 students will study English and Mathematics for three periods a week for the entire year. These units are CORE. Students will then be able to elect eight semester based units from a range provided by each of the other learning areas (The Arts, Science, Humanities, Physical Education and Health, Technology and Languages) giving them a total of four units per semester. It is expected and recommended that all students will attempt units within each learning area. Those students who choose not to undertake a unit of study within a learning area will need to complete a pathway task to ensure that they are not limiting their opportunities. Overall each student will study twelve semester units in Year 10 - two CORE units (Mathematics and English) and four ELECTIVE units per semester.

## **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 and management skills, had a good attendance and punctuality record, shown an ability to work independently, and met all deadlines will be recommended to apply for the Enhancement Program. If a student undertakes this sequence it will take the place of two ELECTIVE units per semester.

# Curriculum Structure

## Year 10 Units of Study

### Core

- English
- Mathematics
- Interdisciplinary

### Semester Electives

- Geography
- History
- Legal Studies
- Business Studies
- Economics
- Italian 1
- Italian 2
- Destinazione Italia 2
- Japanese 1
- Japanese 2
- Let's Discover Japan 4
- Science for Life 1
- Science for Life 2
- Practical Science 1
- Practical Science 2
- Refining Your Ideas – 2D and 3D Studies
- Developing and Extending Your Folio
- Visual Communication Design
- Media Studies 1
- Media Studies 2
- Drama
- Dance
- Dance For Boys
- Classroom Music
- Mind and Body
- Introduction to Outdoor Education
- Recreational Pursuits
- Physical Education
- Design, Creativity and Food Technology
- Design, Creativity and Textile Technology
- Design, Creativity and Materials Technology
- Design, Creativity and Systems Technology
- Advanced Food Technology
- Advanced Materials Technology
- Advanced Systems Technology
- Computer Aided Design and 3D Printing
- Computer Applications and Programming
- Advanced Computer Applications and Programming
- Trigonometry and Calculus
- Literature

### VCE Units for recommended students

- Italian 1 & 2
- Japanese Second Language 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



# Core and Elective Number of Periods

## Semester 1

## Semester 2

### **CORE all year**

English 3 periods  
Mathematics 3 periods

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

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

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

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

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

Interdisciplinary Unit - to be undertaken by all students - 2 periods

Interdisciplinary Unit - to be undertaken by all students - 2 periods

Students will be recommended to undertake units from all Learning Areas (The Arts, Science, Technology, Physical Education and Health, Humanities and Languages). Where students select otherwise they will need to undergo a pathway task to ensure that their opportunities are not being restricted.

# Special Requirements

## Languages

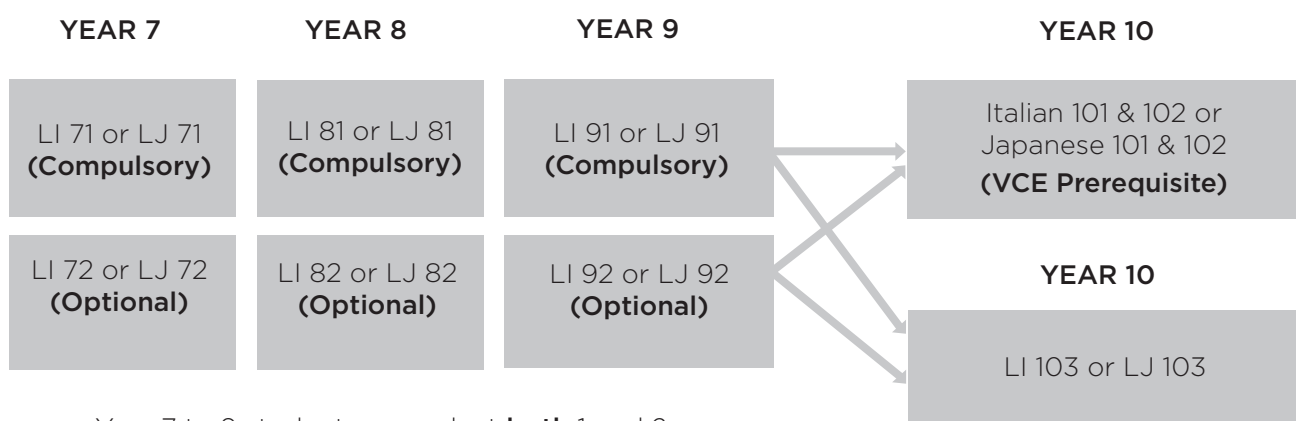
1. At least one unit of Languages must be studied in Year 10.
2. Students may do two units of Languages in one year. In this case there may be a need to place students in another year level for Languages, depending on how many students choose to study two units in any given year.
3. Students who wish 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

CORE UNITS	ELECTIVE UNITS
LI 101 YEAR 10 ITALIAN 1	LI 103 DESTINAZIONE ITALIA 2
LI 102 YEAR 10 ITALIAN 2	LJ 103 LET'S DISCOVER JAPAN 4
LJ 101 YEAR 10 JAPANESE 1	
LJ 102 YEAR 10 JAPANESE 2	

- Students are required to study Languages in a sequence from Year 7 to Year 10, so they **cannot change language after Year 9** 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 a CORE UNIT (Year 10 Italian or Year 10 Japanese) OR an ELECTIVE UNIT (LI 103 DESTINAZIONE ITALIA 2 or LJ 103 LET'S DISCOVER JAPAN 4).
- Students who are preparing for VCE **MUST** complete **BOTH** CORE UNITS in Year 10 (i.e. LI 101 Year 10 Italian 1 and LI 102 Year 10 Italian 2 OR LJ 101 Year 10 Japanese 1 and LJ 102 Year 10 Japanese 2).

# Languages Pathways



Year 7 to 9 students can select **both** 1 and 2 if they want to study Languages for the entire year.

# MATHEMATICS PATHWAYS

YEAR 12

UNIVERSITY MATHS



YEAR 11



GENERAL MATHS 1/2  
(ACADEMIC)



SPECIALIST MATHS 3/4



YEAR 10



ADVANCED MATHS



MATHS METHODS 1/2



MATHS METHODS 3/4

\* BASED ON YEAR 9  
ACADEMIC RESULTS

(OPTIONAL EXTRA TRIGONOMETRY/  
CALCULUS ELECTIVE)

YEAR 7



YEAR 8

YEAR 9

MATHS

MATHS

MATHS

\* BASED ON YEAR 10  
ACADEMIC RESULTS

YEAR 10

STANDARD MATHS



GENERAL MATHS 1/2  
(BUSINESS)



FURTHER MATHS 3/4



FOUNDATION MATHS 1/2

\* YEAR 9 ACADEMIC RESULTS IN TESTS, 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

# Core Unit Descriptions

## ENGLISH - EN101

This unit involves students in the study of a variety of texts. Students also undertake work to develop written and oral expression skills. Students will be exposed to a range of issues presented in a variety of ways, and will further develop analytic and persuasive skills. Students are expected to read widely from texts of their own choice.

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

- Text Response
- Writing and Language Development
- Oral Communication
- Response to Issues
- Exam

The cost for this unit will be \$20

## ENGLISH - EN102

This unit involves students in the study of a novel and a variety of texts relating to various themes. Students also undertake work to develop written and oral expression skills. Students will be exposed to a range of issues presented in a variety of ways, and will further develop analytical and persuasive skills. Students are expected to read widely from texts of their own choice.

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

- Text Response
- Writing and Language Development
- Oral Communication
- Response to Issues
- Exam

The cost for this unit will be \$20

## ENGLISH AS AN ADDITIONAL LANGUAGE (EAL) - EL101 & EL102

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***

- Text Response
- Writing and Language Development
- Oral Communication
- Response to Issues
- Exam

The cost for this unit will be \$20



## MATHEMATICS – MA101

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

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

Algebra – Students expand and factorise binomial expressions; and solve simultaneous equations, including in practical contexts.

Probability – Students analyse situations involving mutually exclusive, complementary and compound events and assign probabilities.

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

### **School Assessed Coursework**

- Topic Tests
- Projects and Problem Solving Activities
- Exam

The cost of this unit will be \$30

## MATHEMATICS – MA102

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

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

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

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

Circle Geometry – Students determine and apply circle properties and theorems.

### **School Assessed Coursework**

- Topic Tests
- Projects and Problem Solving Activities
- Exam

The cost of this unit will be \$30

## INTERDISCIPLINARY – ID101 & ID102

The course will be divided into three main areas:

### **1. Personal Development**

The aim is for students to continue developing their personal growth, resilience and problem solving abilities. Activities include:

- Brainstorm Productions and follow-up activities
- Civics and Citizenship – Democracy
- Driver Education
- Keys Please

### **2. Career Planning**

The aim is to prepare students for their future pathways.

This will be achieved by:

- Occupational Health and Safety Training
- Work Experience preparation and follow-up
- Career Expo
- Pathway preparations and VCE study selection

### **3. Health Education**

The aim is to help students explore issues related to adolescent health.

They include:

- Decision making
- Risk taking behaviour
- Reproductive systems
- Contraception
- Sexually Transmitted Infections
- Drugs
- Mental health
- Health services
- Adolescence and risk taking

### **School Assessed Coursework**

- Classwork and Folio
- Presentations
- Assignments

The cost for this unit will be \$20

Driver Education Charge \$150

# Elective Unit Descriptions - HUMANITIES

## GEOGRAPHY – HG101

This unit focuses on environmental values and human influences causing environmental change. Students investigate management strategies that may lead to a more sustainable future. Students analyse human well-being in various regions of the world. They investigate the factors that influence a country's level of human well-being.

The issue of access to improved sanitation and the environmental and health impacts of poor sanitation are investigated. They analyse the global distribution of natural resources such as diamonds, water and petroleum and investigate conflicts that arise over the use of these resources. Students use digital mapping software to produce and analyse spatial data. They will participate in a fieldwork activity that investigates the use and management of a local resource.

### **School Assessed Coursework**

- Assignments
- Workbook
- Exam

There is no textbook for this unit

The cost for the unit will be \$20

## HISTORY – HH101

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 understanding 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
- Exam

The cost for this unit will be \$15

## LEGAL STUDIES – HL101

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; the law-making process – parliament and the courts; the Victorian court hierarchy; 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 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); nuisance (private and public) as well as motor vehicles and the law.

### **School Assessed Coursework**

- Assignments
- Workbook
- Exam

The cost for this unit will be \$10

## BUSINESS STUDIES – HB101

This unit will focus on the nature and function of business in the Australian economy. Topics that will be covered include: aim of a business; business structure; characteristics of small and large business; the importance of small business in the Australian economy; factors that contribute to business success and failure; buying and starting a new business; an existing business or a franchise; marketing a business; legal requirements of starting a business; calculation of financial worth of a business; recording of financial information; and the preparation of basic financial reports.

### **School Assessed Coursework**

- Assignments
- Workbook
- Exam

The cost for this unit will be \$10

## ECONOMICS – HE101

This unit will deal with economic problems, how markets work, how the Australian economy works and the big economic issues. Topics that will be studied include: scarcity, economic resources, three basic economic questions; demand and supply; the role of government in the economy; inflation and external stability, economic growth and unemployment and globalisation. Students will also investigate government actions to achieve economic goals and a basic review of the Federal budget.

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

- Assignments
- Workbook
- Exam

The cost for this unit will be \$15

## ITALIAN 1 – LI 101

This unit is an extension of Year 9 Italian. Students wishing to continue with language studies, travel to Italy or use Italian in the work-force in the future should complete this unit. A sound knowledge of the work covered in Year 7–9 is required. 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 short story, informative and letter writing skills, and expand their research skills and reporting in Italian. Grammar will be taught in a more formal way. Students will be involved in digital presentations, such as producing their own materials, performing short role-plays and making short films. Visits to our Italian community will be part of the program. Topics covered will include: Travelling and Transport in Italy, Health and Fitness, and Youth and Leisure. Students will also study aspects of Italian History, Geography and Culture such as Famous Artists and Regions of Italy.

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

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

The cost for this unit will be \$20

## ITALIAN 2 – LI 102

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, including Italian newspapers, magazines and television. 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 Shopping in Italy, The Environment, Italian Arts and Inventions, and Commerce and Trade (Made in Italy). Students will acquire more sophisticated language for formal reports, reading documents and itineraries, planning an event, expressing opinions and writing letters of application / formal letters. Italian culture will also be studied, for example Italian Migration, Italian Music, Cinema and Entertainment.

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

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

The cost for this unit will be \$20

## DESTINAZIONE ITALIA 2 - LI103

This unit is for Year 10 students who wish to continue studying more cultural aspects of Italy. 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 involved in activities such as producing their own materials, performing short role-plays and creating a digital story. Themes covered will include Travel and Transport, Healthy Lifestyles, and Shopping and Fashion. Italian language and culture in Melbourne will also be covered. Students will acquire more language for getting around in Italy, giving directions, eating out and shopping, and describing people and places. Other aspects of Italian culture studied will include Italian Music, Cinema and Entertainment.

### **School Assessed Coursework**

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

The cost for this unit will be \$20

## JAPANESE 1 - LJ101

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 Test
- Reading Test
- Speaking Task
- Writing Task
- Exam

The cost for this unit will be \$20

## JAPANESE 2 - LJ102

This unit is designed for students who have completed LJ101 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 Test
- Reading Test
- Speaking Task
- Writing Task
- Exam

The cost for this unit will be \$20

## LET'S DISCOVER JAPAN 4 - LJ103

This unit is for Year 10 students who are not confident in reading and writing Japanese. 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. Japanese culture will be studied. In particular, a self-development program titled 'Kaiden' which draws its content from Japanese idioms, ancient stories from Japan's ancient book, 'Kojiki' and then relates it back to students' lives. As part of this program is the study of non-violent movements, breathing exercises and mental practices from various Japanese martial arts to enhance health and well-being thus helping to foster strength and resilience.

### **School Assessed Coursework**

- Listening Test
- Reading Test
- Speaking Task
- Writing Task
- Exam

The cost for this unit will be \$20

## SCIENCE FOR LIFE 1 (FOR ALL VCE SCIENCES) – SG101

Periodic Table – Students will study how the chemical and physical properties of an element are determined by its atomic structure and that the periodic table organizes these elements into families that display similar properties.

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.

Conservation of Energy – Students will learn that when energy is transferred from one object to another or transformed from one form to another, some energy is always transformed to a less useful form of energy.

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

### **School Assessed Coursework**

- Assignments
- Unit Test
- Practical Work
- Exam

The cost for this unit will be \$25

## SCIENCE FOR LIFE 2 (FOR ALL VCE SCIENCES) – SG102

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 – 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.

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.

### **School Assessed Coursework**

- Assignments
- Unit Test
- Practical Work
- Exam

The cost for this unit will be \$25

## PRACTICAL SCIENCE 1 – SG103

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.

### **School Assessed Coursework**

- Assignments
- Unit Test
- Practical Work
- Exam

The cost for this unit will be \$25

## PRACTICAL SCIENCE 2 – SG104

Electromagnetic Spectrum – Students learn about the electromagnetic spectrum with a focus on the nature of visible light. Students also investigate the relationship between magnetic fields and electricity.

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 Test
- Practical Work
- Exam

The cost for this unit will be \$25



## REFINING YOUR IDEAS - 2D AND 3D STUDIES - AA101

The aim of this unit is to refine the skills acquired in previous art units and further develop the student's ability to communicate using appropriate art language, with the view to discuss their personal artworks and contexts within art styles. Work production will focus on drawing, painting and printmaking. With the aid of a visual diary, students will have greater opportunity to select and develop a range of work options; including creating personal artworks, refining skills and mastering chosen techniques. They will be required to produce work that reflects a broader appreciation of art and historical influences on art. Students will create a folio of personalised artworks that show a depth of thought, investigation and purpose.

### **School Assessed Coursework**

- Folio of finished art / design work
- Visual Diary
- Research Work
- Exam

The cost for this unit will be \$50

## DEVELOPING AND EXTENDING YOUR FOLIO - AA102

This unit is offered for students with a strong interest in art who wish to develop a personalised folio of artworks in preparation for VCE art studies. The students will be required to develop a highly personalised visual diary that demonstrates an ability to document their investigation of ideas, techniques and materials used. The aim with finished practical work will be to demonstrate an increased control and application of skills and art making processes. Research work will focus on an appreciation of styles in art, with particular attention to approaches and methods used by artists to develop individual styles.

### **School Assessed Coursework**

- Folio of finished art / design work
- Visual Diary
- Research Work
- Exam

The cost for this unit will be \$50

## VISUAL COMMUNICATION DESIGN - AN INTRODUCTION TO VCE - AG101

This unit is offered to students who have a strong interest in visual design in preparation for VCE studies in Visual Communication Design. Students will be expected to take on increased responsibility with the development of ideas and in the refinement of design solutions. They will undertake a broader range of practical tasks that can include freehand rendering, perspective and orthogonal drawing, technical drawing, product and typography design, digital photography and computer applications. Recording, researching and annotating all areas of design investigation will be an important aspect of their work production. Students will also need to continue to enhance their appreciation of design terminology and design elements and principles. They will research, analyse and compare a selection of specific design products to determine the various ways that these are presented to the consumer or client.

### **School Assessed Coursework**

- Folio of finished art / design work
- Visual Diary
- Research Work
- Exam

The cost for this unit will be \$40

## MEDIA STUDIES 1 - AN101

This unit is **only** for Year 10 students who **have not done Year 9 Media Studies (AN91)**.

This subject aims to assist students to develop skills in and an understanding of the techniques, processes, equipment and technologies that are used in the creation of a range of media products. Students will be able to apply their knowledge and skills to develop and communicate their ideas through the creation of their own media products. Production tasks will cover media forms such as film, animation, digital photography and print. Students will also discuss the role of the media in society and in their own lives. They will study a variety of materials created in different social, cultural and historical contexts that cover media forms such as film, television, advertising, print media and the Internet.

### **School Assessed Coursework**

- Media Production Exercises
- Media Analysis Tasks
- Production Evaluation Tasks
- Exam

The cost for this unit will be \$30

## MEDIA STUDIES 2 – AN102

To choose this unit students **must have either** completed Media Studies 1 (AN91) in Year 9 **or** students can select this unit **in Semester 2** but they must **also** enrol in Media Studies 1 AN101 **in Semester 1**.

Media Studies 2 builds upon and extends the material covered in unit 1. Students will apply their knowledge of media production principles in order to create media products 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 consumers through the discussion of topics such as censorship, violence in the media, media ownership and control and the role that new technologies have played in changing the way people create, distribute and access the media.

### **School Assessed Coursework**

- Media Production Exercises
- Media Analysis Tasks
- Production Evaluation Tasks
- Exam

The cost for this unit will be \$30

## DRAMA – AD102

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
- Live Performance
- Class and Homework Exercises
- Exam

## DANCE – AD103

In Year 10 dance, students continue to develop the skills, technique and collaborative processes that began in Year 8 and / or 9 dance. 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
- Participation / Journals

The cost for this unit will be \$30

## DANCE FOR BOYS – AD104

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

The cost for this unit will be \$30

## CLASSROOM MUSIC – AM101

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 (Band of Seniors, Senior Choir, Jazz Band) and that they are taking lessons on their chosen instrument with at least two years practice on it prior to commencing the unit.

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

- Theory
- Analysis of works
- Performance
- Compositions
- Exam

The cost for this unit will be \$30

The cost for yearly Instrumental Music lessons at Rosehill is \$225

# PHYSICAL EDUCATION AND HEALTH

## MIND AND BODY - PH101

This exciting unit has a holistic approach covering both mental and physiological topics to help students appreciate the benefits of physical activity to the mind and body. This unit aims to increase students' confidence, self-esteem and leadership qualities whilst building a solid foundation for VCE studies. Students will be exposed to the following activities / topics:

- Body Image
- Nutrition
- Physiology
- Dance
- Gender Roles
- Posture
- Aerobics
- Anatomy
- Massage

### **School Assessed Coursework**

- Participation
- Test(s)
- Practical Routine(s)
- Workbook / Assignment(s)
- Exam

The cost of this unit will be \$20

## INTRODUCTION TO OUTDOOR EDUCATION - PH102

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

The cost of this unit will be \$400 including:

Equipment hire \$50

Excursion and camp \$350

## RECREATIONAL PURSUITS - PH104

This unit is designed for those students who recognize the benefits of and enjoy regular physical activity, yet is a variation to the traditional, mainstream sports. Students will be exposed to the following recreational activities, which they will be able to enjoy with friends:

- Ten Pin Bowling
- Golf
- Darts
- Indoor Activities
- Lawn Bowls
- Ultimate
- Tennis
- Billiards
- Go Karting
- Bat Tennis
- Gym
- Zone 3
- Squash

### **School Assessed Coursework**

- Participation
- Skill Development
- Worksheets / Assignment(s)
- Exam

The cost of this unit will be \$100

## PHYSICAL EDUCATION - PH105

Those students who are considering VCE Physical Education are strongly encouraged to undertake this unit. Students will be introduced to topics covered in VCE Physical Education in a very practical, hands on approach, giving them the confidence and basis to achieve great results. The topics of skill learning, motor skills, sports coaching, biomechanics, body systems, skill classification, modified sports, anatomy and sportsmanship will be explored through the following sports:

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

### **School Assessed Coursework**

- Participation
- Test / Laboratories
- Worksheets / Assignment(s)
- Exam

The cost of this unit will be \$20

## DESIGN, CREATIVITY AND FOOD TECHNOLOGY – TF101

This unit adopts a closely related theoretical and practical approach to learning. Students will develop a comprehensive understanding of the major food nutrients and will apply this information to design and evaluate food products. They will also be encouraged to use this information to assist them to make knowledgeable decisions about personal food choices. Students will consider the current trends in the nutritional status of Australians and will investigate the nutritional and lifestyle factors that influence food selection for groups with special dietary needs. Students will complete a series of practical tasks where they will be required to implement a range of food preparation skills, techniques and processes in a safe and hygienic manner.

In both individual and group situations, students will use the Design Process to create a range of meals in response to a range of nutrition based Design Brief challenges. These can vary in complexity depending on the student's ability.

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

- Investigation
- Food Preparation Skills
- Food Portfolio
- Design Briefs
- Exam

The cost for this unit will be \$50

## ADVANCED FOOD TECHNOLOGY – TF102

### **Prerequisite – Successful completion of Design, Creativity and Food Technology – TF101**

This unit is designed as a prerequisite for the study of VCE Food and Technology. 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, processes, 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 (investigate, design, produce, analyse and evaluate) to plan innovative solutions for specific design problems and challenges. These can vary in complexity depending on the student's ability.

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

- Investigation
- Food Preparation Skills
- Food Portfolio
- Design Briefs
- Exam

The cost for this unit will be \$50

## DESIGN, CREATIVITY AND MATERIALS TECHNOLOGY – TM101

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

The cost for this unit will be \$30

## ADVANCED MATERIALS TECHNOLOGY – TM102

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

The cost for this unit will be \$30

## DESIGN, CREATIVITY AND TEXTILE TECHNOLOGY – TT101

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, investigating, analysing, designing, making and evaluating their final product. The tasks can increase in complexity where necessary depending on the competence of the student.

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

- Textiles Portfolio
- Focused Practical Tasks
- Design Brief, Investigation, Analysing, Designing, Making and Evaluating
- Exam

The cost for this unit will be \$50



## DESIGN, CREATIVITY AND SYSTEMS TECHNOLOGY – TS104

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
- Design Folio / Briefs
- Exam

The cost for this unit will be \$30

## ADVANCED SYSTEMS TECHNOLOGY – TS105

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
- Design Folio / Briefs
- Exam

The cost for this unit will be \$30

## COMPUTER AIDED DESIGN AND 3D PRINTING – TM103

In this unit students will design and print an object they create. It is computer based and students will learn modelling skills in Solid Edge Computer Aided Design (CAD) software. Students will complete a range of tasks from basic to advanced levels. Once achieved, students design an object, incorporating techniques of sketching, modelling (CAD) and printing with a MakerBot Replicator 3D Printer. The printer uses plastic to build a designed object. Students will learn and use software to process files for 3D printing, allowing student designs to be turned into real objects. This unit will give students access to current Manufacturing and Design Technologies, creating fantastic advantages for students' futures, including those interested in VCE Product Design and Technology.

Requirements: netbook, mouse and imagination.

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

- Modelling Tasks
- 3D Solid Model
- Processing Files
- Printed Object
- Exam

The cost for this unit will be \$70

## COMPUTER APPLICATIONS AND PROGRAMMING – TI104

This course has been developed as the basis for VCE Information Technology Units 1 and 2 and VCE IT Applications 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

The cost for this unit will be \$10

## ADVANCED COMPUTER APPLICATIONS AND PROGRAMMING – TI105

This course has been developed as the basis for VCE Information Technology Units 1 and 2 and VCE IT Applications 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

The cost for this unit will be \$10

# ADDITIONAL ELECTIVES

## TRIGONOMETRY AND CALCULUS – ZM101

This unit is offered to students who enjoy and appreciate mathematics and like to extend their understanding of Trigonometry by:

- 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
- Projects and Problem Solving Activities
- Exam

The cost of this unit will be \$30

## TRIGONOMETRY AND CALCULUS – ZM102

This unit is a continuation of ZM101. A student must have successfully completed ZM101 before attempting this unit. The focus of this unit is to extend ZM101 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
- Projects and Problem Solving Activities
- Exam

The cost of this unit will be \$30

## LITERATURE – ZL101

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, films, memoirs and myths. 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

The cost of this unit will be \$20