

Year 10

PROSPECTUS

2010

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INTRODUCTION

This booklet is designed to inform and help students and parents understand the requirements of the Year 10 program and select a course of study.

The organisation of the curriculum at Bellarine Secondary College is based on the eight Discipline Based Learning Areas (DBA) –

English,
Mathematics,
Science,
Humanities,
The Arts,
Technology,
Health and Physical Education,
Languages other than English (French & Indonesian)

This ensures that all students have access to a broad, comprehensive curriculum.

Course Selection

Students will select 12 units, each of five periods per week, to be completed over the year. In each semester, students will study six of these units.

Descriptions of all the units offered in each DBA are included in this booklet. There will be seminars and counselling sessions, prior to course selection.

Course selection will be conducted “On Line” see Page 4.

Core Units

All students must study English during each semester. Of the remaining 7 Discipline Based Learning Area’s, students may choose to **exclude** one DBA when selecting their **core** subjects. However, it is important that preferred future VCE subject choices are not jeopardised by the choices made in Year 10.

Elective Units

Students will choose 3 or 4 additional or elective units according to their special interests. Students electing to study the core subjects in each DBA will have a choice of three elective subjects, each from a different DBA. Students choosing to exclude one DBA from their core units will have a choice of four elective subjects. However, a student is not allowed to do more than **three** units within one DBA.

In addition, Year 10 students may be able to enrol in a Year 11 VCE subject. This would be subject to the student meeting a range of criteria listed in the section “Year 10 Accelerated Learning 2010 – Later Years (VCE)”.

Subject Charges

Students and parents need to consider the costs associated with some units, which must be met if the student is to continue in the unit. The unit costs are indicated at the end of each unit description. The subject charge is used to provide students with materials and equipment in addition to the normal costs associated with the program.

Please note that some units have listed excursion costs. These costs are based on projected expenditure and may be subject to minor changes next year.

Timeline

Monday 21 st July	Prospectus Online
Wednesday 5 th August 7.00 – 8.30pm	Year 9 to 10 Parent Information Evening 7.00pm at the Potato Shed
Wednesday 5 th August	Course Selection opens Online
Monday 11 th August – Friday 22 nd August	Course Counselling - normal school hours for all students
Friday 29 th August	Subject Course Selections completed Online
Late September	Final unit decisions, some student reselections
Early October	Students to receive course confirmation for 2010 – Priority given to students in order of returning slip
November	Students receive final subject allocation for 2010

When making course selections for next year, students should gather information from a variety of sources including their current teachers, the Careers Teacher, Discipline Based Learning Areas, parents and the Information Evening. In addition to this, all students will have the opportunity to be involved in Course Counselling Sessions. These sessions will be conducted at school and assist students to make educated selections for their future pathways.

**Mrs. Margot Romanin
Sub -School Leader**

COURSE SELECTION FOR THE 2010 SCHOOL YEAR WILL BE COMPLETED ONLINE.

To Access the **Online Course Selection** go to the **College Home Page** at:

www.bellarinesc.vic.edu.au

On this page you will see a large link called “Course Selection” - Click on this.

You will now be asked to **log in** using your Bellarine Secondary College **Student Code and Student Password**. Once you have entered your details, you will be welcomed to the Year 10 Course Selection Process which will take you through step by step.

Students new to the College who do not have a Student Code or Password will need to contact Mrs. Margot Romanin at the Drysdale Campus who will arrange one for you.

When all students have entered their course selections, the information will be used to generate subjects for the 2010 College Year.

Any queries should be directed to Mrs. Margot Romanin on romanin.margot.m@edumail.vic.gov.au or alternatively on 5251 9051 at the Drysdale Campus.

YEAR 10 - BELLARINE SECONDARY COLLEGE - CURRICULUM STRUCTURE 2010

Year	English	Maths	Science	Health & Phys. Ed.	Humanities	Languages (French or Indonesian)	Arts	Technology
10	5 pds each semester	Core subjects in at least 6 Key Learning Areas - 5 periods per week for one semester						
		<ul style="list-style-type: none"> - Maths Methods - General Maths (either: 1 Semester or 2 Semesters) 	<ul style="list-style-type: none"> - General Science 	<ul style="list-style-type: none"> - Health & Physical Education 	<ul style="list-style-type: none"> - Modern Australia 	<ul style="list-style-type: none"> - French or Indonesian 	<ul style="list-style-type: none"> - Drama - Music - Visual Art - Media - Photography - Ceramics / 3D Art - Visual Communication 	<ul style="list-style-type: none"> - Foods - Fabrics and fashion - Metal - Wood - Robotics - Information Technology - Programming and Game Development - IT – Living in a cyber world - Aquaculture, Agriculture & Horticulture - VET IT Cert III Modules - Café Fare
		Electives – Students select 3 or 4 from these DBA’s - 5 periods per week for one semester						
		<ul style="list-style-type: none"> - Maths Methods - General Maths 	<ul style="list-style-type: none"> - Psyched Up - Marine Science - CSI Lights, Camera, Science - The Body and Behaviour - It Goes Off 	<ul style="list-style-type: none"> - Outdoor Ed. 1 - Phys. Ed. 2 - Outdoor Ed. 2 - Health 	<ul style="list-style-type: none"> - History in Film - Justice, Money and Markets 	<ul style="list-style-type: none"> - Extension French - Extension Indonesian (Semester 2) 	<ul style="list-style-type: none"> Second or third preference from above list 	<ul style="list-style-type: none"> Second or third preference from above list

VCE - BELLARINE SECONDARY COLLEGE - CURRICULUM STRUCTURE 2010

Year	English	Maths	Science	Health & Phys. Ed.	Humanities	Languages (French or Indonesian)	Arts	Technology
VCE 5 pds	<p>Units 1 to 4 - English - Literature</p> <p>Units 1 & 2 - Foundation English</p>	<p>Units 1 & 2 - General Maths - General Maths Algebraic</p> <p>Units 3 & 4 - Further Maths - Maths Methods - Specialist Maths</p>	<p>Units 1 to 4 - Physics - Chemistry - Biology - Psychology - Environmental Science</p>	<p>Units 1 to 4 - Physical Education - Outdoor and Environmental Studies - Health & Human Development - VET Outdoor Recreation</p>	<p>Units 1 to 4 - Geography - Business Management - Accounting - Legal Studies - Australian History</p> <p>Units 1 & 2 only - 20th Century History</p> <p>Units 3 & 4 - Australian History</p> <p>- VET Retail</p> <p>- VET Business</p>	<p>Unit 1 to 4 - French - Indonesian</p>	<p>Unit 1 to 4 - Art - Studio Arts - Visual Comm. & Design - Media Studies - Drama - Music Styles - VET Music Industry Skills</p> <p>Units 1 & 2 only - Music Craft - Dance - VET Multimedia</p> <p>Units 3 & 4 only - VET Dance</p> <p>- VET Visual Arts</p> <p>- VET Screen</p>	<p>Units 1 to 4 - Design and Technology Wood - Food and Technology - Agric. & Horticulture Systems & Technology Electronics - VET Building & Construction - VET Hospitality - VET Equine Industry - VET Viticulture - VET I.T. - VET Horticulture - VET Aquaculture - VET Aeroskills - VET Automotive - VET Engineering</p> <p>Units 1 and 2 only - Design & Technology - Textiles - Surfboards - Hairdressing - Metal - Information Tech. - VET Viticulture</p> <p>Units 3 and 4 only - Information Processing and Management - Information Systems</p>

Accelerated Studies into VCE at Year 10

In recent years we have made some significant changes to the curriculum structure at Year 10 that will allow some of our highly motivated and high achieving students to study **both** Unit 1 and Unit 2 of a selected VCE subject.

Possible Advantages of Studying a VCE Subject in Year 10

- The challenge, stimulation and motivation of studying a VCE subject.
- Students gain a gradual exposure and understanding of the VCE processes, work requirements, outcomes, essays, exams.
- The opportunity to study more than the usual 22 VCE units.
- The experience of working with older (Year 11) students.
- The option to study a VCE Subject, Units 3 & 4, in Year 11 and therefore gain a higher ENTER score (students gain credit for up to 6 Unit 3 & 4 subjects).

Possible Disadvantages of Studying a VCE Subject in Year 10

- Fewer Year 10 subjects can be studied.
- Increased workload and stress.
- Perceived need to concentrate on VCE studies at the expense of normal Year 10 classes.

Procedures for Students Accelerating to VCE

- Recommendations or requests for acceleration may be initiated by the student, parent or teacher. However, students will be expected to have a record of excellent work habits and a high level of achievement in Year 9.
- After initial discussions with teachers and parents, students wishing to apply to accelerate need to complete a “*Later Years (VCE) Application*” (attached to the Year 10 Course Information).
- **The “*Later Years (VCE) Application*” should to be completed online with the “Year 10 Subject Selection 2010”.**
- The application will be considered by the Year 10 Acceleration Panel, chaired by Ms Rysdale. This may incorporate interviews with both students and parents.
- Students granted permission to study a VCE subject (Units 1 and 2) from the designated list will drop the core subject and any nominated elective subject in the same DBA at Year 10, plus one of their elective choices.
- Students granted approval to accelerate will be advised during Term 4.
- Acceleration will be conditional on the nominated VCE subject being available to the Year 10 students as this will depend on student demand, class sizes and possible subject clashes.
Year 11 and 12 students will be given priority in accessing VCE subjects.
- The progress of accelerating students will be monitored during Term One 2009. Recommendations to continue or restructure a student’s program will be dependant on their work practices and academic achievement across all subjects.

YEAR 10 – DISCIPLINE BASED LEARNING AREA

COURSE OUTLINES:

ARTS

Title:	CERAMICS / 3D ART
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Ms. T. Grace
Course Aims:	
<ul style="list-style-type: none"> • Students will be encouraged to experiment with ideas, concepts and techniques, with the medium of clay and / or other available 3D Media. • The emphasis will be placed on creativity and quality finish. • Students will have the opportunity to develop their individual style and extend their skills and experiences in Ceramics and / or other 3D Media. 	
Course Content:	
Students will produce a Folio of 3D Projects using clay / or other available media:	
<ul style="list-style-type: none"> • Several projects using different building techniques, or a combination of techniques. • Development of decorating techniques, on new projects or the major projects previously completed. • Development of an individual series of smaller models, or an environmental / community art-project. • A Workbook will be maintained with designs and notes on techniques / methods and reference on Ceramic Artists and Sculptors. • Homework / Research: A written assignment will be completed for homework of approximately 500 words, together with examples of ceramics / 3D sculpture designs. 	
Pathways to VCE:	
This unit is designed to prepare students for VCE Art and Studio Art.	
Cost: A \$20 levy is charged for this subject.	

Title:	DRAMA
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Ms. J. Hall
Course Aims:	
<ul style="list-style-type: none"> • Students will learn to work in a group when devising and staging a performance. • Students will learn to analyse their own and others performances. 	
Course Content:	
<ul style="list-style-type: none"> • Students will be involved in devising a group performance focusing on both acting and backstage. • Students will learn about a variety of historical and theatrical contexts. • Students will learn how to analyse others and their own performances. • Students will produce a journal that focuses on class activities reviews and analyses. 	
Pathways to VCE:	
This unit is designed to prepare students for VCE Drama.	
Cost : Nil	

Title:	MUSIC
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Ms R Cowled
Course Aims:	
<ul style="list-style-type: none"> • Students will extend their knowledge of music theory and its application through practical performance. • Students will develop their aural and analytical skills through identification of musical elements present in musical works. • Students will explore a variety of styles of music and their distinguishing musical features. 	
Course Content:	
Students will be required to complete :	
<ul style="list-style-type: none"> • Theory tasks. • Listening – analysis, aural comprehension. • Performance – solo technical work and pieces / group performance. • History and styles in Music. 	
Pathways to VCE:	
This unit will prepare students for VCE Music Styles or VCE Music Performance.	
Cost: Nil	

Title:	MEDIA
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Ms J Walsh
Course Aims:	
<ul style="list-style-type: none"> • Students will develop skills in the use of digital equipment and software to create media / photographic products of their own design. • Students will study and refer to media theory to develop their skills in visual literacy. • Students will explore the power and influence of the media, and analyse its methods and aims. • The subject includes both practical and theoretical components. 	
Course Content:	
Areas of study can include:	
<ul style="list-style-type: none"> • Digital Photography. • Video Editing. • Journalism. • Advertising. • Digital Video Production. • Digital Video Editing. • Film Analysis. 	
Pathways to VCE:	
This subject is designed to prepare students for VCE Media Studies.	
Cost: A \$10 Levy is charged for this subject.	

Title:	VISUAL ART
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Mr. R. Berglund
Course Aims:	
<ul style="list-style-type: none"> • To develop skills in art design and demonstrate a wide range of art techniques. • Analyse and interpret the content, structure and aesthetic qualities of artworks. 	
Course Content:	
<ul style="list-style-type: none"> • Students develop and extend skills in the areas of illustration, painting, printing and mixed media. • Students complete art appreciation – projects on pop art cubism and modern art movements. 	
Pathways to VCE:	
This unit will help prepare students for Art and Studio Art.	
Cost: A \$15 levy is charged for this subject.	

Title:	VISUAL COMMUNICATION - GRAPHICS
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Ms. J. Fleming
Course Aims:	
<ul style="list-style-type: none"> • Students take on the role as Graphic Designer to create conventional and creative graphics. • Course is based on product and environmental designs and their practical applications in society. 	
Course Content:	
Students will produce a Practical Folio including :	
<ul style="list-style-type: none"> • Instrumental Drawings. • Freehand Drawings. • Computer generated graphics. • Marketing techniques. • Range of drawing materials. • Research Project on analysing and evaluating Visual Communication. 	
Pathways to VCE:	
This unit is designed to prepare students for VCE Visual Communication and Design.	
Cost: Nil	

ENGLISH

Title: Unit Offered: Core / Elective: Contact Person:	ENGLISH Semesters 1 and 2 Core Ms G Saunders
Course Aims: To develop student competence and confidence in using language through a wide range of activities and practices based on the Victorian Essential Learning Standards.	
Course Content: <i>Reading:</i> The course incorporates the study of set texts such as novels, short stories, plays, film as text, poetry, newspapers and other media. <i>Writing:</i> students engage in a range of formal and informal types of writing. <i>Speaking and Listening:</i> Students participate in discussion, debates, formal and informal talks and other speaking and listening opportunities.	
Pathways to VCE: English is compulsory in VCE. Units can be made up from English or Literature.	
Cost : Nil	

HEALTH AND PHYSICAL EDUCATION

Title:	HEALTH AND PHYSICAL EDUCATION
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Core
Contact Persons:	Mrs. V. Wedding, Mr. M. Hall, Mr. G. Stephens, Mr. K. Cohen, Miss. R. Maher, Ms. L. Saffin
Course Aims:	To promote understanding of physical activity and movement, food and nutrition, health, safety and human relations.
Course Content:	The course involved three periods of physical education and two periods of health each week. Activities undertaken, badminton, netball, korfbal, ultimate, indoor hockey and soccer, flag football, golf, gymnastics, dance and minor games. Health topics include: stress management, drug education, conflict, grief, and community health services.
Pathways to VCE:	This unit will help prepare students for VCE Physical Education and Health and Human Development.
Cost :	Nil

Title:	PHYSICAL EDUCATION TWO
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Persons:	Miss. R. Maher, Mrs. V. Wedding, Mr. K. Cohen, Mr. G. Stephens, Mr. M. Hall, Ms. L. Saffin
Course Aims:	This unit aims to encourage students to participate in a variety of physical activities and to develop an understanding of fitness principles.
Course Content:	Major and minor games, volleyball, tennis, lawn bowls, indoor cricket, basketball, orienteering, croquet, Gaelic football, carpet bowls, table tennis, swimming, archery, soft lacrosse, personal and team fitness training, body works, systems, food for sport, bio-mechanics, drugs, fitness theory.
Pathways to VCE:	This unit will help prepare students for VCE Physical Education.
Cost:	\$35 to cover excursions.

Title: Unit Offered: Core / Elective: Contact Persons:	OUTDOOR EDUCATION ONE Semester 1 <u>OR</u> Semester 2 Elective Mr. K. Cohen, Mr. G. Stephens, Mrs. V. Wedding, Miss. R. Maher, Mr. M. Hall, Mr D. Evans, Ms. L. Saffin
Course Aims: To develop a range of knowledge and skills that will encourage safe participation in outdoor activities.	
Course Content: The course will cover such areas as, swimming, body surfing, snorkelling, canoeing, fishing, rock climbing, bush walking, surfing, first aid, camp craft, orienteering, environmental issues and related theory.	
Pathways to VCE: This unit will help prepare students for VCE Outdoor and Environmental Studies and VCAL Outdoor Education.	
Cost: \$140, this covers all excursions, equipment and staffing.	

Title: Unit Offered: Core / Elective: Contact Persons:	OUTDOOR EDUCATION TWO Semester 1 <u>OR</u> Semester 2 Elective Mr. K. Cohen, Mr. G. Stephens, Ms. L. Saffin, Mrs. V. Wedding, Miss. R. Maher, Mr. M. Hall, Mr D. Evans
Course Aims: To develop a range of knowledge and skills that will encourage safe participation in outdoor activities.	
Course Content: The course will cover such areas as swimming, body surfing, surfing, rock climbing, camp craft, environmental issues and related theory. Students will also participate in the Bronze Award of the surf life saving certificate. A fully subsidised camp is included in this program.	
Pathways to VCE: This unit will help prepare students for VCE Outdoor and Environmental Studies and VCAL Outdoor Education.	
Cost: No cost. Fully funded by the Victorian Government Youth Advance Program.	

Title: Unit Offered: Core / Elective: Contact Persons:	HEALTH Semester 1 <u>OR</u> Semester 2 Elective Mrs W Cohen, Ms. L. Saffin, Mrs. V. Wedding, Mr. K. Cohen
Course Aims : The course aims to extend students in their evaluation of the importance that a healthy population is to Australia.	
Course Content : Life Style Health - Diet, Behaviours and Exercise. Their affect on the Australian population. Use of pedometers and the school weight room to assist with personal choices. Mental Health – Understanding of issues in the Australian population. Use of “Mind Matters” and “Pride & Prejudice” programs. Sexual Health – Particular emphasis on adolescence and sexuality. Use of School Health Worker and experience with “Virtual Parenting Dolls”. Global Health – Australia’s place in the world to develop an understanding of global health issues.	
Pathways to VCE: This unit will help prepare students for Health and Human Development.	
Cost: No levy is charged for this subject.	

LANGUAGES:

Title:	FRENCH (half a year)
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Core
Contact Person:	Mrs. R. O'Connor
Course Aims: This French course aims to contribute to the overall education of students, particularly in the areas of communication, cross-cultural understanding, literacy and general knowledge. The ability to use and understand French also provides access for students to the rich and varied culture of francophone communities.	
Course Content: Themes to be covered would include : <ul style="list-style-type: none"> • Fashion • Leisure • Food 	
Pathways to VCE: This unit is designed for students to conclude their language studies after one semester in Year 10.	
Cost : Nil	

Title:	FRENCH - EXTENSION (full year)
Unit Offered:	Both Semester 1 <u>AND</u> Semester 2
Core / Elective:	Elective (this unit must be completed if continuing with French at VCE)
Contact Person:	Mrs. R. O'Connor
Course Aims: This French course aims to contribute to the overall education of students, particularly in the areas of communication, cross-cultural understanding, literacy and general knowledge. The ability to use and understand French also provides access for students to the rich and varied culture of francophone communities.	
Course Content: Themes and topics will include : <ul style="list-style-type: none"> • Travel. • Shopping. • History and geography of Francophone countries. • French Culture. 	
Pathways to VCE: It is strongly advised that students anticipating undertaking the study of French in the VCE will have completed the 2 semesters of French in Year 10.	
Cost: Nil	

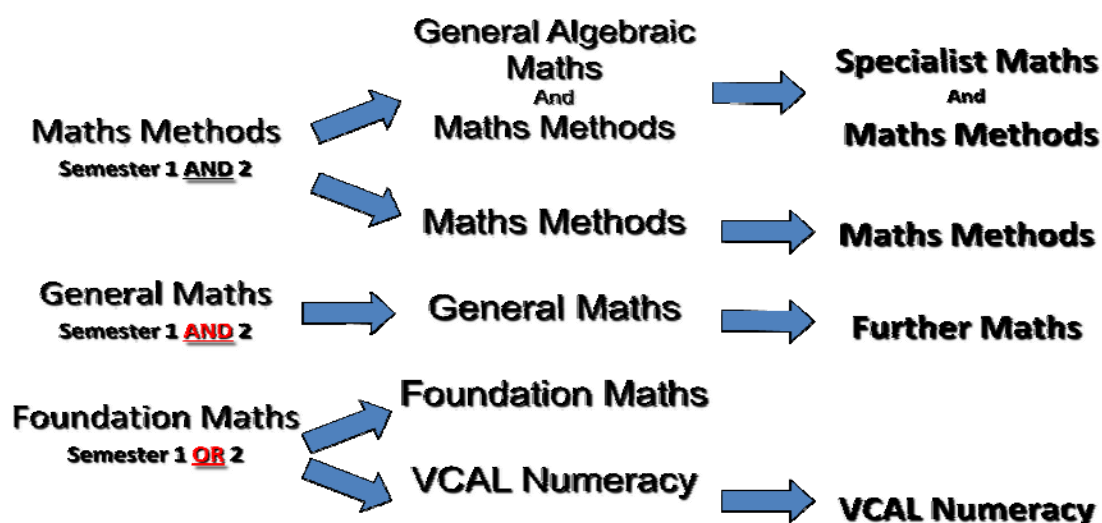
Title: Unit Offered: Core / Elective: Contact Person:	INDONESIAN (half a year) Semester 1 <u>OR</u> Semester 2 Core Ms L Purdy
Course Aims: Language and culture are studied in this subject. Emphasis will be on equipping students with communication skills and development of vocabulary as well as an understanding of the culture of our closest neighbour.	
Course Content: Students will learn and extend their language skills covering the following topics : <ul style="list-style-type: none"> • Schooling in Indonesia. • City and village life. • Culture and ceremonies of Indonesia. • Indonesian etiquette. 	
Pathways to VCE: This unit is designed for students to conclude their language studies after one semester in Year 10.	
Cost: Nil	

Title: Unit Offered: Core / Elective: Contact Person:	INDONESIAN – EXTENSION (full year) Both Semester 1 <u>AND</u> Semester 2 Elective (this unit must be completed if continuing with Indonesian at VCE) Ms L Purdy
Course Aims: Bellarine Secondary College recognises that high achieving and motivated students clearly benefit from the opportunity to study a language at VCE. This subject will include the study of language and culture. Emphasis is on development of competence in all language skills in preparation for VCE study.	
Course Content: As per Indonesian (half a year) - SEE ABOVE. In addition, students will learn and extend their language skills, covering the following topics : <ul style="list-style-type: none"> • Education, and Exchange Student Programs • Health and Sickness • Village and City Life. 	
Pathways to VCE: It is strongly advised that students anticipating undertaking the study of Indonesian in the VCE will have completed the 2 semesters of study required.	
Cost : Nil	

MATHEMATICS

Recommended Mathematics Pathways – Year 10 to Year 12:

Year 10 Year 11 Year 12



Title: Unit Offered: Core / Elective: Contact Person:	MATHEMATICS METHODS Both Semester 1 <u>AND</u> Semester 2 Elective Ms. V. Ferguson
Course Aims: To extend students skills in Algebra in particular and prepare them for Mathematical Methods and/or General Mathematics Algebraic. It is a necessary prerequisite for these subjects. Students will be required to purchase a CAS calculator, costing approximately \$190.00. The calculator will also be used in Year 11 and 12.	
Course Content: <ul style="list-style-type: none"> • Linear Functions. • Geometry • Probability • Periodic Functions 	<ul style="list-style-type: none"> • Factorisation. • Surds, Indices, Exponential Notation. • Quadratic Equations and Graphs. • Probability. • Networks • Geometry.
Pathways to VCE: This unit is designed for students who wish to continue the study of mathematics beyond Secondary School. Students will typically choose Mathematical Methods and/or General Mathematics (Algebraic) in Year 11, then Methods and perhaps Specialist Mathematics in Year 12.	
Cost : Nil	

Title: Unit Offered: Core / Elective: Contact Person:	GENERAL MATHEMATICS (full year) Semester 1 <u>AND</u> Semester 2 Core Ms. V. Ferguson
Course Aims: Students will continue to develop their skills in Mathematics and its application to the solving of problems. Students will be required to purchase a CAS calculator, costing approximately \$190.00. The calculator will also be used in Year 11 and 12.	
Course Content: <ul style="list-style-type: none"> • Measurement • Linear Functions • Trigonometry • Statistics • Consumer Mathematics 	
Pathways to VCE: This unit is designed to prepare students for VCE General Mathematics, which leads onto Further Maths in Year 12.	
Cost : Nil	

Title: Unit Offered: Core / Elective: Contact Person:	FOUNDATION MATHEMATICS (half year) Semester 1 <u>OR</u> Semester 2 Core Alternative to General Mathematics Ms. V. Ferguson In the event that there are insufficient students for a class, students selecting this unit will revert to General Mathematics
Course Aims: Students will continue to develop their skills in Mathematics and its application to the solving of problems. Students will be required to purchase a CAS calculator, costing approximately \$190.00. The calculator will also be used in Year 11 and 12.	
Course Content: <ul style="list-style-type: none"> • Measurement • Linear Functions • Trigonometry • Statistics • Consumer Mathematics 	
Pathways to VCE: This unit is designed to prepare students for VCE foundation maths, (if it is offered due to sufficient numbers) or VCAL Numeracy Year 11 & 12, Foundation maths finish after year 11.	
Cost : Nil	

SCIENCE

Title:	GENERAL SCIENCE
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Core
Contact Person:	Mr. K. Mahr
Course Aims: Completion of Science VELS 11 Outcomes	
Course Content: <i>Biological Science:</i> An emphasis on genetics and inheritance patterns and evolution. <i>Physical Sciences:</i> Alternate energy sources <i>Chemical Sciences:</i> An emphasis on the properties of metals and non-metal elements and compounds. Students will also do a major research assignment using enquiry based learning.	
Pathways to VCE: VCE Biology, VCE Chemistry, VCE Environmental Science VCE Physics.	
Cost: Excursions.	

Title:	SCIENCE (Extension)
Unit Offered:	Semester 1 <u>AND</u> Semester 2
Core / Elective:	Elective (recommended if selecting 2 or more Science subjects in VCE)
Contact Person:	Mr. B. Foss
Course Aims: This Science course is an extension of the General Science elective (Half Year) and gives high achieving and motivated students a pathway to multiple VCE Science subjects. Emphasis is on delivering a higher level of science knowledge and Enquiry Based Learning in preparation for VCE.	
Course Content: As per General Science Semester 1 (See above) but with a higher level of knowledge and achievement. In addition, students in Semester 2 will study <ul style="list-style-type: none"> • <i>Psychology:</i> Investigate the behaviour and functions of the brain • <i>Environmental Science :</i> Investigate environmental issues such as pollution and climate change • <i>An Enquiry Based Learning Unit</i> based on a topic from Semester 1 (Biology, Chemistry or Physics Issue) 	
Pathways to VCE: It is strongly advised that students selecting 2 or more VCE Science subjects will have completed the two semesters of Science at Year 10.	
Cost: Excursions.	

Title: Unit Offered: Core / Elective: Contact Person:	BODY AND BEHAVIOUR Semester 1 <u>OR</u> Semester 2 Elective Mr. S. Bengé
Course Aims: <ul style="list-style-type: none"> • To study various body systems in a variety of animals • To study the behaviour of a certain animals 	
Course Content: <ul style="list-style-type: none"> • Basic Biological Principles • Detecting the world around us: <ul style="list-style-type: none"> - Reflexes - Senses <ul style="list-style-type: none"> sight hearing touch taste - Nerve transmissions • Behaviour of Animals <ul style="list-style-type: none"> - social groups - colonies - reproductive instincts - migration patterns - learned and innate behaviours • Diseases <ul style="list-style-type: none"> - Viruses, Bacteria - Our Body's Defences - Plagues through History - Future Plagues 	
Pathways to VCE: VCE Biology, VCE Psychology.	
Cost: Zoo Excursion.	

Title: Unit Offered: Core / Elective: Contact Person:	CSI: LIGHTS, CAMERA, SCIENCE Semester 1 <u>OR</u> Semester 2 Elective Ms S. Shamsili, Mr. B. Foss
Course Aims: <ul style="list-style-type: none"> • To use scientific techniques to investigate aspects of crime and to investigate science in movies and television. 	
Course Content: <i>Techniques include:</i> <ul style="list-style-type: none"> • Fingerprinting. • DNA “fingerprints”. • Blood Group Theory. • UV techniques. • Entomology and crime scenes. • Microscope techniques. • Ballistics. • Human anatomy. • Shoe and tyre impressions. • Enquiry based learning-: tasks and assignments based on science presented in Hollywood science fiction programs. 	
Pathways to VCE: VCE Chemistry; VCE Biology, VCE Physics.	
Cost: Excursions.	

Title:	PSYCHED UP
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Mr. G. Del Papa
Course Aims:	
<ul style="list-style-type: none"> • To study aspects of human behaviour 	
Course Content:	
<ol style="list-style-type: none"> 1. Are we really different? <ul style="list-style-type: none"> - What is psychology? Who are psychologists? - Gender Roles & differences (through play activities) 2. As Time Goes By - Psychological development. 3. Mental Health - Behaviour disorders. 4. Inside Your Head - Learning styles/Intelligence. 5. Motivation - Arousal, behavioural dieting. 6. Emotions - A study of facial expressions. 7. Circadian Rhythm - Body clock, sleep dream theories. 8. Pseudo Psychologies. 	
Pathways to VCE:	
VCE Psychology	
Cost: Excursions.	

Title:	MARINE SCIENCE
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Mr. S. Bengé
Course Aims:	
To study further aspects of Marine Science.	
Course Content:	
<ul style="list-style-type: none"> • Aquaculture: abalone, fish and mussel farming. • Harbour and foreshore design and management. • Ocean life cycles. • Exploration and resources. • Geological formations. • Chemical pollutants. 	
Pathways to VCE:	
VCE Biology, VCE Environmental Science, VCE Chemistry.	
Cost: Excursions: Queenscliff Marina, Abalone Farm, Melbourne Aquarium or Fishing Trip, and Mussel Farm.	

Title: Unit Offered: Core / Elective: Contact Person:	IT GOES OFF Semester 1 <u>OR</u> Semester 2 Elective Mr. K. Mahr
Course Aims: <ul style="list-style-type: none"> • Chemical investigations which examine products that are consumed by our society. • To develop an understanding of how chemicals are used in our society. 	
Course Content: This course is student centred; it relies on the student choosing, researching and experimenting with a topic of interest to them, using the teacher as a facilitator. Areas of interest that have been studied in the past include <ul style="list-style-type: none"> • Food Chemistry: examining preservatives, colours, flavours, emulsifiers and other modern food preparation techniques. • Viticulture: using the College vineyard as a starting point, examining the chemistry involved in growing grapes and producing wine. • Aquaculture: examining the chemical aspects of farming fish. • Petrochemical industry: examining the effect that this industry has had on society in the past 100 years, and the impact that running out of petroleum products could have on society. Examining alternatives to petrol, such as ethanol and bio-diesel. • Cosmetics: investigating what chemicals are in common cosmetics, from lipstick to sunscreen. 	
Pathways to VCE: VCE Chemistry, VCE Biology, could also be used as a pathway to VET and VCAL subjects.	
Cost: Excursions organised by the students.	

HUMANITIES

<p>Title: Unit Offered: Core / Elective: Contact Person:</p>	<p>MODERN AUSTRALIA Semester 1 <u>OR</u> Semester 2 Core Mr. S. O'Neill</p>
<p>Course Aims: This unit of work investigates the development of Australia over the past 100 years. What does it mean to be Australian? How has our recent history, the geography of where we live, and the economic development of Australia affect who we are today? The focus is also on Australia's response to global issues.</p>	
<p>Course Content:</p> <ul style="list-style-type: none"> • Australia at War – Peacekeeping. • Indigenous Australians / Human Rights. • Immigration; population and multi-culturalism. • Where we live, how we live. • Wealth, poverty, inequality • Current issues. • Australian identity/culture • Climate change 	
<p>Pathways to VCE: Geography Unit 1-4, Business Management Unit 1-4, History Unit 1-4, Legal Studies Unit 1-4</p>	
<p>Cost : Nil</p>	

<p>Title: Unit Offered: Core / Elective: Contact Person:</p>	<p>JUSTICE, MONEY AND MARKETS Semester 1 <u>OR</u> Semester 2 Elective Ms. A. Boswell</p>
<p>Course Aims: This unit of work explores the role of the legal and financial systems within Australia and beyond. Students will focus upon a basic understanding of laws, the operation of financial institutions, and the management of personal finances.</p>	
<p>Course Content:</p> <ul style="list-style-type: none"> • Origins of the law. • Enforcements and punishment. • Legal bodies. • Personal finance. • Financial institutions. Eg. Australian Stock Exchange. 	
<p>Pathways to VCE: Accounting, Business Management, and Legal Studies.</p>	
<p>Cost: Excursion costs.</p>	

Title: Unit Offered: Core / Elective: Contact Person:	HISTORY IN FILM Semester 1 <u>OR</u> Semester 2 Elective Mr. G. Fowler
Course Aims: “History in Film” investigates how historical events and people are represented in film, and the issues and problems that often result.	
Course Content: <ul style="list-style-type: none"> • World War Two. • Global Depression. • American History. • Individuals in History. 	
Pathways to VCE: Twentieth Century History Unit 1, Year 12 History.	
Cost : Nil	

TECHNOLOGY

Title:	AGRICULTURE & HORTICULTURE
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Ms. L. Hearn
Course Aims: This elective is designed to introduce students to horticulture and sustainable agriculture practices through the growing of plants and the breeding of small farm animals.	
Course Content: Students undertake an enterprise in which they are to design, investigate and produce an aquacultural/agricultural/horticultural product intended for sale at the end of the unit. The enterprise may focus either on the growing of fruit, vegetable or herb crops, the breeding of chickens for egg production; incubation of fertilized eggs for chicken production; or the breeding and growing of other domestic farm animals.	
Pathways to VCE: VCE Agriculture VET Horticulture, Viticulture and Aquaculture.	
Cost: There is a \$30 levy for this subject.	

Title:	INFORMATION TECHNOLOGY
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Mr. G. Murray
Course Aims: This subject is aimed at extending the student's computer and software skill. The subject will cater for all students of varying standards of skills knowledge and look at many different software types.	
Course Content: <ul style="list-style-type: none"> • Students will be expected to work with a wide range of software including photo editing & digital photography, multimedia & video editing, programming, web pages and the more advanced word processing and software skills. • Students will select at least one software type to develop in more detail and produce a major project in depth. 	
Pathways to VCE: VCE Information Technology – IT Applications and Software Development VET Information Technology VET Multimedia.	
Cost : Nil	

Title: Unit Offered: Core / Elective: Contact Person:	IT – Living in a Cyber World Semester 1 <u>OR</u> Semester 2 Elective Mr. G. Murray
Course Aims: This course aims to introduce students to the wide range of digital and web 2.0 applications and their uses.	
Course Content: In a cyber world we use the web and digital technologies every day. Learn to use a range of exciting communication tools and create content for your ‘spaces’, blogs and wikis etc. Modules that may be covered include creating and manipulating photos and 2D graphics; editing video and sound for multimedia presentations; animation; creating web pages, and developing digital communication projects. Students will use scanners, digital cameras, digital video cameras and other hardware.	
Pathways to VCE: VCE Information Technology – IT Applications and Software Development VET Information Technology VET Multimedia	
Cost: NIL	

Title: Unit Offered: Core / Elective: Contact Persons:	SYSTEMS – ROBOTICS Semester 1 <u>OR</u> Semester 2 Elective Mr. B. Thomas
Course Aims: This subject covers areas of technology such as Electronics and Robotics. It aims to give students an introduction to the fields of electro technology, computronics and mechatronics.	
Course Content: Students are required to conduct an investigation into a remote control or autonomous mechanical system. They have a number of choices as to how they can approach this. Students can assemble a Robonova Humanoid Robot (Google this name to see what it is like), documenting its various systems. They will then program it to walk, dance, play soccer, do karate moves or any other number of exciting challenges. Students will be expected to do public demonstrations of their robots as Bellarine Secondary College is the first school in Australia to use Robonova. They can also choose to disassemble a Nitro Powered Remote Control Car , documenting the various mechanical and electronic systems on the way. After assembling the car they will use their knowledge to trouble shoot problems and return the car to working condition. Students also have the option of building a robot vehicle from the microprocessor chip up. This will involve the computer design and etching of a number of printed circuit boards, development of sensors, and the use of sophisticated test equipment. The vehicle can then be programmed to complete the chosen task. Examples of applications are; fire detection, object avoidance, navigating a maze, playing soccer and patrolling to secure an area.	
Pathways to VCE: VCE Systems & Technology Units 1-4.	
Cost: \$25 levy is charged for this subject.	

Title: Unit Offered: Core / Elective: Contact Person:	MATERIALS - FOODS Semester 1 <u>OR</u> Semester 2 Elective Mrs. M. Long, Mrs. C. Callahan, Miss. K. Donnelly, Mrs. J. Wishart, Mrs. B. Luppino
Course Aims: <ul style="list-style-type: none"> • This course aims to introduce students to a wide variety of processes, taste sensations, methods and terminology • To provide students with a broad knowledge of nutrition and the role food has in everyday life. 	
Course Content: In this unit students are introduced to the challenges and delights of working with food. <ul style="list-style-type: none"> • Investigate the requirements of healthy and safe food handling. • Examine the nutritional needs of people and the content of food. They will be provided with the opportunity to prepare suitable dishes for each topic. • Use design briefs to investigate, produce and evaluate their cooking experiences. 	
Pathways to VCE: VCE Food and Technology VCAL Hospitality VET Hospitality TAFE Cert I, II, III Hospitality, Food Processing of Commercial Cookery	
Cost: There is a \$70 levy for this subject.	

Title: Unit Offered: Core / Elective: Contact Person:	MATERIALS – FOODS, CAFÉ FARE Semester 1 <u>OR</u> 2 Semester Elective Mrs. M. Long, Mrs. C. Callahan, Miss. K. Donnelly, Mrs. J. Wishart, Mrs. B. Luppino
Course Aims: <ul style="list-style-type: none"> • This course examines all aspects of the hospitality industry, including current practices and roles • Students will develop skills and knowledge in the area of food handling, selection, storage, presentation and food service. 	
Course Content: Welcome to the exciting world of hospitality and the opportunity to prepare a variety of food. Café food is comforting and tasty, familiar and welcoming. This course will prepare students for positions in the hospitality industry or is ideal for those with an interest in entertaining. Students will; <ul style="list-style-type: none"> • Investigate menu planning, technological changes and current practices in the food industry. • Produce a range of dishes demonstrating safe and correct procedures • Be taught the basic operations of running a café, including food preparation, occupational health and safety guidelines and food service. 	
Pathways to VCE: VCE Food and Technology VCAL Hospitality VET Hospitality	
Cost: There is a \$70 levy for this subject	

Title:	MATERIALS – FABRICS & FASHION
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Mrs. M. Long, Mrs. J. Wishart, Mrs. Callahan, Mrs. J. Guy
Course Aims:	
<ul style="list-style-type: none"> • To explain how specific characteristics of materials and particular processes affect functional and aesthetic design requirements. • To prepare a design option that specifies materials and techniques with consideration for functional, aesthetic and environmental requirements. • To implement the design using the appropriate techniques and equipment. 	
Course Content:	
<ul style="list-style-type: none"> • Students will build up a folio of fashion designs, related fabric swatches, varied machine sewing samples and a variety of embellishment techniques. • Students will design and produce garments from a range of design brief options. • Students will research the fashion industry and a designer of their own choice. • Students will learn to review their own work and make improvements when required. 	
Pathways to VCE:	
VCE Design and Technology – Textiles VET Clothing	
Cost: There is a \$30 levy for this subject and students will need to supply own materials for their major project.	

Title:	MATERIALS - METAL
Unit Offered:	Semester 1 <u>OR</u> Semester 2
Core / Elective:	Elective
Contact Person:	Mr. M. Duncan
Course Aims:	
<ul style="list-style-type: none"> • To explain how specific characteristics of materials and particular processes affect functional and aesthetic design requirements. • To prepare a design option that specifies materials and techniques with consideration for functional, aesthetic and environmental requirements. • To implement the design using the appropriate techniques and equipment with precision and safety. 	
Course Content:	
Students studying this subject will investigate the methods of joining, cutting, and polishing of metals. Students will also study the safe use of the mig welder, plasma cutter and metal lathe while in metal fabrication.	
Pathways to VCE:	
VCE Materials and Technology VCAL Automotive	
Cost: There is a \$60 levy for this subject.	

Title:	MATERIALS – WOOD
Unit Offered:	Semester 1 <i>OR</i> Semester 2
Core / Elective:	Elective
Contact Person:	Mr. D. Price
Course Aims:	
<ul style="list-style-type: none"> • To explain how specific characteristics of materials and particular processes affect functional and aesthetic design requirements. • To prepare a design option that specifies materials and techniques with consideration for functional, aesthetic and environmental requirements. • To implement the design using the appropriate techniques and equipment with precision and safety. 	
Course Content:	
<p>This course is a basic requirement of furniture design and construction. Students will use a Design Brief to construct a piece of furniture for use in their house.</p> <p>Students will develop an understanding of the process through the design, planning, production and evaluation of their product. They will use a range of tools and equipment to enhance their skills and develop a sound knowledge of safe work practices.</p> <p>All students will complete a written assignment to support and confirm their practical knowledge.</p>	
Pathways to VCE:	
VCE Design and Technology VET General Construction VCAL Building and Construction VCAL Furniture	
Cost: There is a \$90 levy for this subject.	

Title:	PROGRAMMING AND GAME DEVELOPMENT
Unit Offered:	Semester 1 <i>OR</i> Semester 2
Core / Elective:	Elective
Contact Person:	Mr. G. Murray
Course Aims:	
<p>This subject is aimed at introducing students to programming, animation and game development. The subject will cater for students of varying standards of skills knowledge and look at a range of appropriate software.</p>	
Course Content:	
<ul style="list-style-type: none"> • Students will be introduced to basic programming- design, development and testing. • Students will use game making programs to modify existing games, then design and development their own. • Students will use animation programs to create short projects such as cartoons, movies, interactive programs. 	
Pathways to VCE:	
VCE Information Technology – IT Applications and Software Development VET Information Technology VET Multimedia	
Cost: Nil	

Title: Unit Offered: Core / Elective: Contact Person:	VET IT CERT III MODULES Semester 1 <u>OR</u> Semester 2 Elective Mr. G. Murray
Course Aims: This course provides students with a basic understanding of computer hardware and software. VET IT gives students an opportunity to build and dismantle computers in a safe environment.	
Course Content: Students will be expected to troubleshoot, repair and maintain computers while working in a team environment. This subject provides a good foundation for those wanting to work in an IT environment. The following are examples of modules that may be covered: <ul style="list-style-type: none"> • Connect hardware peripherals • Maintain equipment and consumables • Operate computer hardware and software • Apply occupational health and safety procedures • Communicate in the workforce • Advance software skills – working for clients and creating web pages Students may choose this subject for either one or two semesters. Two semesters is required if the student wishes to receive the nationally recognised VET IT Certificate III. Other modules will include use of advanced office programs, animation, webpage and multimedia. All modules are completed at Bellarine Secondary College.	
Pathways to VCE: VET IT has pathways to Year 11 IT, Year 12 ITA and Year 12 Software Development.	
Cost: \$50 for Certification.	