

**Year 9**

**PROSPECTUS**

**2010**

## **Dear Parents / Guardians / Students,**

Welcome to the Drysdale Campus of Bellarine Secondary College.

Apart from the obvious challenge of settling into a new campus, Year 9 students also face the challenge of making decisions about their futures as they move into their Later Years of schooling.

This booklet contains all the information necessary for students and parents to make choices from the range of electives available and provides a comprehensive guide to the Year 9 curriculum.

Year 9 students undertake two semester length elective units in each half year – one from the Arts Discipline Based Learning Areas (DBLA) and one from the Technology Discipline Based Learning Areas (DBLA).

It is proposed to continue with a Year 9 College Levy in 2010 that will incorporate all material costs / college charges.

Every effort will be made to give students their first choice of electives but this is not always possible as we are restricted by class sizes and timetable blocks. Students must choose carefully as changes to subject choices will only be made in **EXCEPTIONAL CIRCUMSTANCES**.

An addition to the core curriculum available in 2010 is 'The Moving On' Program. Students will complete two semesters of experiential, community-based learning. All students will undertake both semester units, incorporating a wide variety of learning opportunities both in and out of the classroom.

The key dates to bear in mind are:

- |                                     |  |
|-------------------------------------|--|
| Prospectus Online:                  | - Monday 17 <sup>th</sup> August 2009  |
| On Line Subject Selection due date: | - Friday 11 <sup>th</sup> September 2009   |
| Signed Subject Selections due date: | - Friday 9 <sup>th</sup> October 2009  |
| Year 8 to 9 Orientation Days:       | - Tuesday 8 <sup>th</sup> , Wednesday 9 <sup>th</sup><br>& Thursday 10 <sup>th</sup> December 2009 |

**Ms Jan Fleming**  
**Year 9 Sub-School Co-ordinator**  
Ph: 5251 9043

**PLEASE NOTE THAT COURSE SELECTION FOR THE 2010 SCHOOL YEAR WILL NOW BE COMPLETED ONLINE.**

To access the Online Course Selection Information, go to the College's Home Page at:

[www.bellarinesc.vic.edu.au](http://www.bellarinesc.vic.edu.au)

On this page select "Online Course Selection". On the course selection website, choose, "My Course Selection".

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 9 Course Selection process which will take you through, step by step. Please note that students currently studying Indonesian must continue with Indonesian in Year 9 and students currently studying French must continue with French in Year 9.

Students new to the College who do not have a Student Code or Password will need to contact Ms. Fleming 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. Students will be notified of their courses and an official notification will be provided to parents that will need to be signed and returned to the College. Please be aware that some subjects are very popular and class sizes are limited to 24 in all Technology subjects and 25 in all Art subjects and students submitting their Course Selection information late may not get their first preferences.

**Any queries should be directed to Mr. Kelly / Ms. Vinnecombe at the Ocean Grove Campus or Ms Fleming at the Drysdale Campus.**

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**BELLARINE SECONDARY COLLEGE - CURRICULUM STRUCTURE 2010**

| Year   | English          | Maths            | Science          | Health &<br>Physical Ed. | Humanities                        | LOTE                    | Arts   | Technology   |
|--|------------------|------------------|------------------|--------------------------|-----------------------------------|-------------------------|--|--|
| <b>9</b>   | <b>4 periods</b> | <b>5 periods</b> | <b>3 periods</b> | <b>3 periods</b>         | <b>4 periods</b>                  | <b>3 periods</b>        | <b>3 periods</b>   | <b>3 periods</b>   |
|  |                  |                  |                  | Health 1<br>P. E 2       | History<br>Geography<br>Economics | French or<br>Indonesian | <u>Electives Select 2</u><br>Music<br>Visual Art<br>Visual Communication<br>Drama<br>Ceramics<br>Media | <u>Electives Select 2</u><br>Wood<br>Agriculture/Horticulture<br>Fashion & Fabrics<br>Foods<br>Robotics<br>Fabrication & Engineering<br>IT Animation<br>IT Game making |
| <b>Applied Learning Program - 2 periods per week for the year.</b> |                  |                  |                  |                          |                                   |                         |  |  |

## CURRICULUM STRUCTURE 2010

### Core subjects in at least 6 DBL Areas - 5 periods per week for one semester

| Maths   | Science          | Health & PE                  | SOSE              | LOTE                      | ART   | Technology   |
|---|------------------|------------------------------|-------------------|---------------------------|---|--|
| -Maths Methods<br>-General Maths<br>or<br>-Foundation Maths | -General Science | -Health & Physical Education | -Modern Australia | -French or<br>-Indonesian | -Drama<br>-Music<br>-Visual Art<br>-Ceramics / 3D Art<br>-Visual Communication<br>- Media | - Food<br>-Café Fare<br>- Fabrics and Fashion<br>- Metal<br>- Wood<br>-Robotics<br>- Information Technology<br>- Programming and Game Development<br>- Information Technology and Multimedia<br>- Aquaculture, Agriculture & Horticulture<br>- VET IT Cert 111 Modules |

### Electives – Students select 3 or 4 from these DBL Areas - 5 periods per week for one semester

|   |  |   |   |  |  |  |
|---|--|---|---|--|--|--|
| - Maths Methods<br><br>-General Maths Or<br>Foundation Maths [1 semester] | -Psyched Up<br>-Marine Science<br>-Crime Scene Investigation<br>-Body and Behaviour<br>-Consumer Chemistry<br>-It goes off | -Outdoor Ed. 1<br>-Phys. Ed. 2<br>-Outdoor Ed. 2<br>-Health | -History in Film<br>-Native Plants and Animals<br>-Office Admin./ Advanced Word Processing<br>-Justice, Money and Markets | -Extension French<br><br>-Extension Indonesian<br><br>(Semester 2) | Second or third preference from above list | Second or third preference from above list |
|---|--|---|---|--|--|--|

10

5 periods each semester

## BELLARINE SECONDARY COLLEGE - CURRICULUM STRUCTURE 2010

| YEAR                                    | ENGLISH  | MATHS   | SCIENCE   | HEALTH & P. E.   | SOSE  | LOTE   | ARTS  | TECHNOLOGY   |
|---|--|---|---|--|---|--|---|--|
| <b>VCE</b><br><br>5 periods<br>per Unit | <b>Units 1 to 4</b><br>-English<br>-Literature<br><br><b>Units 1 &amp; 2</b><br>-Foundation<br>English | <b>Units 1 &amp; 2</b><br>-General Maths<br>-General Maths<br>Algebraic<br>-Maths Methods<br>-Foundation<br>Maths<br><br><b>Units 3 &amp; 4</b><br>-Further Maths<br>-Maths Methods<br>-Specialist<br>Maths | <b>Units 1 to 4</b><br>-Physics<br>-Chemistry<br>-Biology<br>-Psychology<br>-Environmental<br>Science | <b>Units 1 to 4</b><br>-Physical Education<br>-Outdoor and<br>Environmental<br>Studies<br>-Health & Human<br>Development | <b>Units 1 to 4</b><br>-Geography<br>-Business<br>Management<br>-Accounting<br>-Legal Studies<br>- Australian History<br><br><b>Units 1 &amp; 2 only</b><br>-20 <sup>th</sup> Century<br>History<br><br><b>Units 3 &amp; 4</b><br>-Australian History | <b>Unit 1 to 4</b><br>-French<br>-Indonesian | <b>Unit 1 to 4</b><br>-Art<br>-Studio Arts<br>-Visual Comm. &<br>Design<br>-Media Studies<br>-Drama<br>-Music Styles<br>-Vet Music Industry<br>Skills<br><br><b>Units 1 &amp; 2 only</b><br>-Music Craft<br>-Dance<br>-VET Multimedia<br>- VET Music<br><br><b>Units 3 &amp; 4 only</b><br>-VET Dance | <b>Units 1 to 4</b><br>-Design and Technology<br>Wood<br>-Food and Technology<br>-Agric. & Horticulture<br>Systems & Technology<br>Electronics<br>-VET General<br>Construction<br>-VET Hospitality<br>-VET Equine Studies<br>-VET I.T.<br>-VET Aquaculture<br><br><b>Units 1 and 2 only</b><br>-Design & Technology<br>-Textiles<br>-Metal<br>-Surfboards<br>-Information Technology<br>-VET Viticulture<br><br><b>Units 3 and 4 only</b><br>-Information Processing<br>and Management<br>-Information Systems |
| <b>VCAL</b>                             | Literacy   | Numeracy  |   | Personal Development<br>Sport & Recreation   | Business/<br>Enterprise<br>Work Skills  |  | Arts  | Metal Fabrication<br>Building & Construction<br>Furniture Making<br>Hospitality<br>Landscape   |

## YEAR 9 SUBJECT COURSE OUTLINES:

### **APPLIED LEARNING PROGRAM – ‘Moving On’**

|   |   |
|---|---|
| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>  | <b>Applied Learning</b><br><b>Compulsory</b><br><b>Mr Murray Long</b> |
| <b>Course Aims:</b><br><b>Semester 1 <u>MY COMMUNITY</u>- Interdisciplinary Electives.</b><br>The list of Subject Based Electives will be available the on-line course selection during Term 4. The semester unit will focus on the development of skills that will be implemented through participation in a community based project.<br><b>Semester 2 <u>EXPLORE</u>- Bay and Mountain Challenge.</b><br>This semester unit will focus on learning essential life skills that will be utilised in a wide variety of activities, both in and out of the classroom.<br>The essential skills will include: <ul style="list-style-type: none"><li>• Team and Leadership development.</li><li>• Personal Learning goals.</li><li>• Understanding personal skills and attributes.</li><li>• Developing confidence, resilience and managing challenge.</li><li>• Planning, organisation and problem solving.</li></ul> This semester will culminate in an extended challenging experience out of the school environment. |   |
| <b>Course Content-</b><br><b>[Applicable to both semesters.]</b> <ul style="list-style-type: none"><li>• Problem Solving</li><li>• Design &amp; Improvement</li><li>• Planning &amp; Organising</li><li>• Community Engagement</li><li>• Communication &amp; Information Research</li><li>• Leadership &amp; Teamwork</li><li>• Self Management</li><li>• Formal Presentation to an Audience</li></ul>  |   |

## ARTS

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|---|--|
| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>  | <b>VISUAL ART</b><br><b>Elective</b><br><b>Mr R Berglund</b> |
| <b>Course Aims:</b><br>Year 9 Art is an exciting course covering a wide range of Art production methods and styles. Emphasis is placed on students expressing themselves about their own and other peoples' art.<br>Students will complete practical exercises related to major projects. |  |
| <b>Course Content:</b> <ul style="list-style-type: none"><li>• Drawing</li><li>• Painting</li><li>• Mixed media</li><li>• Printmaking</li><li>• Research assignment</li><li>• Collage</li></ul>   |  |

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>  | <b>CERAMICS / 3D ART</b><br><b>Elective</b><br><b>Ms T Grace</b> |
| <b>Course Aims:</b><br>Course work is undertaken with practical ceramic projects including the experience of various glazing and finishing techniques. Other 3D mediums are available in extension work. Research work is required for a written assignment, and a workbook is kept for theory together with notes and sketches on each practical project undertaken. |  |
| <b>Course Content:</b> <ul style="list-style-type: none"><li>• 3D models in various materials</li><li>• Coiling</li><li>• Press-mould</li><li>• Slab work</li><li>• An introductory lesson on the wheel</li><li>• Pinching</li><li>• Sculptural forms</li></ul>   |  |

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>  | <b>DRAMA</b><br><b>Elective</b><br><b>Ms J Hall</b> |
| <b>Course Aims:</b><br>Students will develop self-confidence and the ability to creatively express ideas.   |   |
| <b>Course Content:</b><br>The course has two parts:<br><b>1. Practical Workshops: Students explore dramatic and stagecraft elements.</b><br><br>This will include experience of: <ul style="list-style-type: none"> <li>• Acting</li> <li>• Improvisation</li> <li>• Theatre sports</li> <li>• Theatre History</li> <li>• Text</li> <li>• Performance Analysis</li> </ul> |   |
| <b>2. Theatre Appreciation: Students develop an appreciation of live theatre by observing performances that highlight approaches to dramatic presentation.</b><br><br>Students will be expected to cover the cost of planned drama excursions.  |   |

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>MUSIC</b><br><b>Elective</b><br><b>Ms R Cowled</b> |
| <b>Course Aims:</b><br>Students will study the basic elements of music construction. Students will develop skills which will lead them to a greater understanding and appreciation of music.   |   |
| <b>Course Content:</b> <ul style="list-style-type: none"> <li>• Theory – basic elements used in the construction of music works.</li> <li>• Composition – application of theory to individual composition and exploration of ideas.</li> <li>• Performance – individual and group work.<br/> Students who learn instruments will have the opportunity to practice their craft.</li> <li>• Appreciation – develop the skill of analysing / reviewing performances.</li> </ul> |   |

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>  | <b>MEDIA ‘LIGHTS, CAMERA, ACTION’</b><br><b>Elective</b><br><b>Ms J Walsh</b> |
| <b>Course Aims:</b> <ul style="list-style-type: none"> <li>• The Media elective allows students to develop skills in digital video production.</li> <li>• Students will use digital video production to explore the Media industry.</li> <li>• Students will be introduced to aspects of media theory and visual literacy</li> <li>• The subject includes both practical and theoretical components.</li> </ul> |   |
| <b>Course Content:</b><br>Areas of study can include: <ul style="list-style-type: none"> <li>• Introduction to print photography.</li> <li>• Digital Video Production</li> <li>• Video Editing</li> <li>• Pre Production Skills</li> <li>• Film Studies</li> </ul>  |   |

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| <b>Title:</b><br><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>VISUAL COMMUNICATION &amp; DESIGN</b><br><b>Elective</b><br><b>Ms J Fleming</b> |
| <b>Course Aims:</b><br>The Year 9 course is based on Product Design and the Communication Process. Students will learn to use a range of media and materials in presenting theme-based projects.   |  |
| <b>Course Content:</b> The skills will cover : <ul style="list-style-type: none"> <li>• Layout</li> <li>• Typography</li> <li>• Signage</li> <li>• Research assignment</li> <li>• Technical drawing</li> <li>• Product design</li> <li>• Promotional graphics</li> </ul> |  |
| Students will be encouraged to use practical means of presentation such as: <ul style="list-style-type: none"> <li>• Paint</li> <li>• Gouache</li> <li>• Pencil</li> <li>• Ink</li> <li>• Cut paper</li> <li>• Airbrush</li> <li>• Corel Draw</li> </ul>                 |  |

# ENGLISH

**Title:**  
**Compulsory / Elective:**  
**Contact Person:**

**ENGLISH**  
**Compulsory**  
**Ms G Saunders**

**Course Aims:**

The course consists of a wide range of activities and practices, which develop student competence and confidence in using language.

**Course Content:**

The course is assessed in 3 dimensions.

- Reading –Students are encouraged to read widely and with discrimination. The course incorporates study of set texts, novels, short stories, plays, films as text, poetry, newspapers and other media.
- Writing – Students are encouraged to develop control of the writing process by choosing and developing topics, drafting, revising, editing, presenting to an audience and participating in the evaluation of their work. Students engage in a range of different types of writing. Tasks are designed to allow students to build on the skills already developed in previous years, as well as to introduce them to the writing of arguments, instruments, reports and reviews.
- Speaking and Listening – Emphasis is given to using speech in a clear, controlled and expressive manner. Students are expected to participate in discussions, debates, formal and informal talks and various other activities designed to enhance speaking skills. Exercises and activities that stress the importance of thoughtful, critical, attentive, and appreciative listening are presented.

# HEALTH AND PHYSICAL EDUCATION

Two separate subjects are studied:

- **Health**
- **Physical Education**

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>HEALTH</b><br><b>Compulsory</b><br><b>Mrs V Wedding</b> |
| <b>Course Aims:</b><br>Goals of the Unit are to assist students to: <ul style="list-style-type: none"> <li>• Develop self confidence and self esteem</li> <li>• Develop skills for interpersonal relationships</li> <li>• Develop decision making skills</li> <li>• Develop healthy living practises</li> </ul>    |  |
| <b>Course Content:</b><br>Students will study several topics which include :<br>GP program supporting: <ul style="list-style-type: none"> <li>• Drug education</li> <li>• Human relationships [sex education]</li> <li>• Harassment [work, technology, sexual]</li> <li>• Body image - eating disorders</li> </ul> |  |
| <p>All units have a Community Health focus - giving information on community services available to assist young people with these areas of their health</p>  |  |

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>PHYSICAL EDUCATION</b><br><b>Compulsory</b><br><b>Mrs V Wedding</b>   |
| <b>Course Aims:</b><br>In Year 9 there is further enhancement of the skills and techniques of games introduced or attempted during the first two years at the College. Students will be in single-sex PE groups, where possible. |  |
| <b>Course Content:</b><br>Students will participate in the following practical activities. They will develop their skills and tactics in these activities.   |  |
| <u>Ball Handling:</u><br>Basketball<br>Touch Footy<br>European Handball  | <u>Stick Sports:</u><br>Indoor Cricket<br>Indoor Hockey<br>Soft Lacrosse |
| <u>Athletics.</u><br>Fitness Testing<br>Weight Training<br>Minor Games   | <u>Body Awareness:</u><br>Gymnastics<br>Minor Games                      |
| Theory Component - fitness components and fitness testing.   |  |

## LANGUAGES OTHER THAN ENGLISH: (LOTE)

This is a full year core subject and Year 9 students will study either Indonesian or French. Students will be continuing with the language studied at Years 7-8.

|                               |                      |
|-------------------------------|----------------------|
| <b>Title:</b>                 | <b>FRENCH</b>        |
| <b>Compulsory / Elective:</b> | <b>Compulsory</b>    |
| <b>Contact Person:</b>        | <b>Ms R O'Connor</b> |

### Course Aims:

The Year 9 French course places strong emphasis on practical, spoken and written French.

The aim of the course is to give students confidence and the ability to deal with topics that are of interest to them. The course is a pre-requisite for Year 10 French and leads to VCE French.

### Course Content:

Topics covered will include :

- Travelling Around
- Fashion
- Food
- Schooling
- French History
- Living in France
- French speaking countries

A language / cultural study tour to New Caledonia may be offered to students studying French in Year 10, 11 or 12.

## OR

|                               |                   |
|-------------------------------|-------------------|
| <b>Title:</b>                 | <b>INDONESIAN</b> |
| <b>Compulsory / Elective:</b> | <b>Compulsory</b> |
| <b>Contact Person:</b>        | <b>Ms L Purdy</b> |

### Course Aims:

Skills developed will be: listening, speaking, reading and writing in Indonesian, expressing personal feelings and appreciation of the culture of Indonesia. The course is a prerequisite for Year 10 Indonesian and leads to VCE Indonesian.

### Course Content:

Themes covered include :

- Sport
- Entertainment
- Environment
- Weather
- Holidays
- Making arrangements
- Cultural components

A language/cultural study tour to Indonesia/Malaysia may be offered to students studying Indonesian in Year 10, 11 or 12.

# MATHEMATICS

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>MATHEMATICS</b><br><b>Compulsory</b><br><b>Ms V Ferguson</b> |
| <b>Course Aims:</b><br>Mathematics develops some new topics as well as developing skills already introduced in Year 8.   |   |
| <b>Course Content:</b><br><br>Year 9 Mathematics continues to develop students' skills in algebra, statistics, geometry and measurement. Students apply their knowledge of basic calculations and percentages to discounts, hire purchase, commissions and mortgages.<br><br>Skills in measurement are extended with work on Pythagoras' Theorem and introductory Trigonometry. The emphasis in these areas is on developing skills to solve practical problems.<br><br>Scientific calculators are required for this course. It is anticipated that all students will use computers for geometry, graphing and statistics. Students are assessed on Skills, Problem Solving and Project Work. Students are encouraged to work at the highest possible level, accepting the challenges of open-ended and problem solving exercises. |   |

# SCIENCE

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>SCIENCE</b><br><b>Compulsory</b><br><b>Mr B Foss</b> |
| <b>Course Aims:</b><br>The Year 9 Science course combines theoretical work with practical experience. This work utilizes the set text.<br><br>Excursions to the Melbourne Aquarium are organised each year.  |   |
| <b>Course Content:</b><br>Topics include : <ul style="list-style-type: none"><li>• Marine Science</li><li>• Chemistry</li><li>• Microbes</li><li>• Light and Sound</li><li>• Electricity</li><li>• Nerves</li><li>• Student Research Project</li></ul> |   |

# HUMANITIES

There are three subjects studied in HUMANITIES:

- (i) **Geography**
- (ii) **History**
- (iii) **Economics**

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>GEOGRAPHY</b><br><b>Compulsory</b><br><b>Mr S O'Neill</b> |
| <b>Course Aims:</b><br>Geography at Year 9 gives students an opportunity to study their local environment, important geographical features and some aspects of the world around them.  |  |
| <b>Course Content:</b><br>Students will study several topics, including: <ul style="list-style-type: none"><li>• What is Geography</li><li>• Climate and weather</li><li>• Water Management</li><li>• Natural Disasters</li><li>• Geography of Bellarine Peninsula</li><li>• Coastal Geography</li><li>• Tourism</li></ul> |  |

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>HISTORY</b><br><b>Compulsory</b><br><b>Mr S O'Neill</b> |
| <b>Course Aims:</b><br>The focus of Year 9 History is to provide students with the opportunity to study some key developments in our history from Koori times to 1900s.  |  |
| <b>Course Content:</b><br>Core themes include: What is History. <ul style="list-style-type: none"><li>• Australia's Identity.</li><li>• Discovery and Settlement</li><li>• Convict Era.</li><li>• Gold and its effects on Australian Society</li><li>• Bushrangers</li><li>• Koori Dreamtime</li></ul> |  |

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>ECONOMICS</b><br><b>Compulsory</b><br><b>Mr S O'Neill</b> |
| <b>Course Aims:</b><br>The focus on Year 9 Economics is to provide students with the opportunity to study some aspects of Australia's economy, the world of business and work, and managing personal finance issues.                             |  |
| <b>Course Content:</b><br>Topics include: <ul style="list-style-type: none"> <li>• Personal Finance</li> <li>• World of Work</li> <li>• Australia's Economy</li> <li>• Consumer Society</li> <li>• Managing money, credit and banking</li> </ul> |  |

# TECHNOLOGY

All students must select two single semester units. For more information and pictures of student work, see our Web Page on the Internet and Intranet.

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| <b>Title:</b><br><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>AGRICULTURE AND HORTICULTURE</b><br><b>Elective</b><br><b>Ms L Hearn</b> |
| <b>Course Aims:</b><br>This elective is designed to introduce students to horticulture and agriculture practices through the growing of plants and the breeding of small farm animals.   |   |
| <b>Course Content:</b><br>The course will focus on the growing of fruit, vegetable or herb crops and / or the breeding of poultry and small animals. On occasions students have the opportunity to participate in the raising of calves through the 'Cows create Careers' Program. |   |

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| <b>Title:</b><br><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>MATERIALS - FOODS</b><br><b>Elective</b><br><b>Ms J Guy</b> |
| <b>Course Aims:</b><br>Food Technology involves using knowledge, skills and attitudes to produce food products that meet people's needs and desires.<br>In this course, students will be introduced to designing and working with food, applying safe and hygienic food preparation, appropriate terminology and working with a design brief. There is a sound nutrition focus with links to food models, nutrient content and requirements for growth and activity. Students will be challenged with questions, investigations, newspaper articles and case studies. It is expected that from this students will develop an appreciation for food by investigating and working with food. |  |
| <b>Course Content:</b> <ul style="list-style-type: none"><li>• Production - weekly practical tasks</li><li>• Folio - weekly written tasks</li><li>• Design Briefs</li><li>• Investigation</li><li>• ICT activities</li></ul>   |  |

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| <p><b>Title:</b></p> <p><b>Compulsory / Elective:</b></p> <p><b>Contact Person:</b></p>  | <p><b>MATERIALS –<br/>Fabrication &amp; Engineering<br/>[Formerly Metals/Metalcraft]<br/>Elective<br/>Mr M Duncan</b></p> |
| <p><b>Course Aims:</b><br/>Students will use a variety of materials and techniques to produce models based on working diagrams produced by students. Safe work practices are strongly emphasised and enforced.</p>   |   |
| <p><b>Course Content:</b><br/>Students will study the safe use of complex tools such as:</p> <ul style="list-style-type: none"> <li>• MIG welder.</li> <li>• MIG welder.</li> <li>• Gas welder.</li> <li>• Spot welder.</li> <li>• Gear head drill/pedestal drill/hand drill.</li> <li>• Pedestal grinder/hand grinder,</li> <li>• Milling machine.</li> <li>• Sheet metal folder.</li> <li>• Sheet metal roller</li> </ul> <p>Students will develop design briefs to complete items such as:</p> <ul style="list-style-type: none"> <li>• Storage box-tool box/tackle box [galvanised sheet metal].</li> <li>• Dice paper weight [Aluminium].</li> <li>• Garden tools [mild steel].</li> <li>• Holders including fishing rod, candle stick, beverage, hose etc. [mild steel].</li> </ul> <p>Accompanying the practical aspect, a theory booklet and assignment will be completed.</p> |   |

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| <b>Title:</b>   | <b>MATERIALS – Fabrics &amp; Fashion</b> |
| <b>Compulsory / Elective:</b>   | <b>Elective</b>                          |
| <b>Contact Person:</b>  | <b>Ms J Guy</b>                          |
| <b>Course Aims:</b><br>To develop an interest in the areas of garment and small article construction with the emphasis on extending sewing skills, innovative fabric decoration and the role of recycling in the fashion industry.  |  |
| <b>Course Content:</b><br>Students will use the technology design process to learn about fashion and interior decoration through garment and small article construction using a variety of sewing and embellishing techniques. They will develop a folio of design sketches, stitching and embellishment samples. Students will investigate trends in the fashion industry. |  |
| <b>Examples of techniques;</b> <ul style="list-style-type: none"> <li>• Tie Dying</li> <li>• Hand Stitching</li> <li>• Appliqué</li> <li>• Computer Imaging</li> <li>• Stencilling</li> <li>• Garment Design</li> <li>• Garment Construction</li> <li>• Cross stitch</li> </ul>   |  |

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| <b>Title:</b>   | <b>MATERIALS - WOOD</b> |
| <b>Compulsory / Elective:</b>   | <b>Elective</b>         |
| <b>Contact Person:</b>  | <b>Mr D Price</b>       |
| <b>Course Aims:</b><br>Students will use tools, equipment and components safely and creatively to develop their skills and knowledge in constructions using wood. Students will develop an understanding of design, functionality and aesthetics to create various models.                    |                         |
| <b>Course Content:</b><br>Students will develop skills including: <ul style="list-style-type: none"> <li>• Measuring and marking</li> <li>• Chiselling, sawing and clamping.</li> <li>• Sanding and staining.</li> <li>• Assembling</li> <li>• Investigation</li> <li>• Evaluation</li> </ul> |                         |

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>SYSTEMS – ROBOTICS</b><br><b>Elective</b><br><b>Mr B Thomas</b> |
| <b>Course Aims:</b><br>Students will gain a basic understanding of electronics and robotics. Students will be able to apply these skills to construct working robots of their own design.  |  |
| <b>Course Content:</b><br>The Robotics classroom is run as a Learning Centre. Students are able to choose their own robotic challenges depending on their skill level and learning styles. Students are given a range of hundreds of activities to choose from, obtained from prepared curriculum materials or from specialist robotics web sites on the internet. Students are able to construct their robots using their own Mindstorm NXT Kits and a range of other building materials. Robot designs include humanoid robots, remote control cars, Ninja fighting robots, tracked vehicles, service robots, soccer robots and dancing robots just to name a few. Students can program the robots to behave autonomously or using Bluetooth control, using a joy stick or even mobile phones. |  |

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| <b>Title:</b><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>   | <b>SYSTEMS - IT</b><br><b>Gamemaking &amp; Programming</b><br><b>Elective</b><br><b>Mr G Murray</b> |
| <b>Course Aims:</b><br>The students will start with the basics of programming computers by creating simple games on a PC.<br>They will examine the basics of a programming language VB.net, and progress and create a simple working program. The students will learn the fundamentals of animation programs and how to create storyboards and time lines for animated software.<br>They will use Word Processing to create letters to companies about their new product. The students will learn the fundamentals of programming computer games, virtual reality, creating video/animation and human to computer interfaces.<br>Students will create advertising brochures in Desktop Publishing in which they will further study the elements of design. Students will maintain weekly journals in the form of Web Logs [Blogs]. |   |
| <b>Course Content:</b> <ul style="list-style-type: none"> <li>• Visual Basic.NET.</li> <li>• Basic animation creation using MOHO/Swish/Flash software</li> <li>• Basic Game programming using Gamemaker software</li> <li>• Blogs and webpage design</li> </ul>  |   |

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| <b>Title:</b><br><br><b>Compulsory / Elective:</b><br><b>Contact Person:</b>  | <b>SYSTEMS - IT</b><br><b>Animation, MP3's &amp; 3D</b><br><b>Elective</b><br><b>Mr G Murray</b> |
| <b>Course Aims:</b><br>Students will create basic computer generated animation. This will involve the basics of computer animation, creating simple animated picture shows. Creating digital portfolios will require students to learn the basics of storyboards, timelines, scripts, Moviemaker, Photostory and develop a record of skills. Students will work in teams to use sound editing to create MP3's, sound effects and other podcasts on areas of student interest. Students will document their daily tasks in the form of an on-line We log/journal that will serve as an assessment item for the course. |  |
| <b>Course Content:</b> <ul style="list-style-type: none"> <li>• Computer generated animation</li> <li>• Digital portfolios. Blog</li> <li>• MP3 and Podcasting</li> <li>• Flash</li> <li>• 3D game objects or levels</li> </ul>   |  |