

## **ELECTIVES: YEAR 10 2010**

### **AGRICULTURE**

Agriculture will provide students with first hand experience in the establishment and management of animals and plants which can be bred for profit in a sustainable manner. Students will be expected to help feed and care for the animals kept in the school grounds and maintain their facilities. During the semester you will learn about: issues in agriculture, methods of growing plants and keeping animals, requirements for life, agricultural industries, development and maintenance of agricultural plant systems, the biology and maintenance requirements of farm animals and the impact of the food production industry on the environment. This course has a high practical component that will require you to work at the farm and carry out all necessary tasks in this environment; you will need to be involved in all aspects of developing and maintaining a vegetable garden and the care of all livestock kept at the farm. Assessments may include field work, investigations of issues and presentations to other classes.

### **ART**

This elective is for students who are keen to explore ideas and messages through Art and to develop their skills in preparation for VCE Art/Studio Arts. Students will continue to develop skills in the areas that were covered in the core course in Years Seven and Eight. Specific areas of study include: Painting, Print Making, Drawing, Sculpture, Ceramics and Mixed Media.

Students will build up a folio of work as well as accompanying development work in their visual art diary. There is an emphasis on each student learning and exploring new techniques to express individual themes and ideas through the making of art. In theory lessons students will study a range of art periods and artists to complement the themes that are explored and the materials and techniques used in the practical assignments. Students will research the work of a variety of Australian and International artists and study the influences they have had on artworks and art processes. The study of past and contemporary artists and their work practices will be assisted through relevant excursions and research trips or visiting artists.

### **BAHASA INDONESIA**

So, you have been studying Indonesian for three years now and are now wondering if you should continue it in Year 10 or 'drop' it. Before you rush to fill in your elective choices you should ask yourself two questions.

1. 'Have I achieved good grades in Indonesian?'
2. 'Have I liked learning Indonesian?'

A 'yes' to these questions suggests that you should continue the language in Year 10. As you already know, Indonesia is Australia's largest close neighbour with a population exceeding 200 million people. Thus, there are lots of opportunities for 'Indonesia savvy' people in areas such as law, engineering, diplomatic relations, business and trade, defence, tourism and education. This is especially the case for those who have a qualification in any of the aforementioned areas, as well as knowledge and understanding of Indonesian.

Proficiency in foreign languages, especially Asian languages, is also very highly regarded by many Australian universities and there are some advantages for students who have completed a VCE Second language study. Finally, language study opens up the door for

cross-cultural understanding and travel opportunities, and can be a tremendous source of personal satisfaction. People who have studied LOTE often recall the enormous sense of satisfaction they feel as they become increasingly confident speaking a second (or third) language; they also refer to other skills they have acquired such as self-discipline, concentration and memorisation that have helped them in other areas of study. Students electing to study Indonesian in Year 10 must have satisfactorily completed Indonesian in Year 9. The course in Year 10 is for two semesters and is designed to build upon previous learning with students moving towards greater fluency in the language.

### **COMPUTER PROGRAMMING**

This course is designed for the student who has minimal programming experience, who wishes to attain a thorough grounding in programming in VB.Net. Some areas that will be incorporated into the course are:

- Introduction to the science of computer programming.
- Problem solving techniques, including algorithm design (N-S Diagrams)
- Good Programming practice, conventions and formats

On completion of this unit students will be able to write well structured programs of moderate complexity. Students will be able to compile programs and have a sound understanding of computer programming principles, including control structures, variables and constants, IF statements-and the Visual Basic language. Students will create fully functioning computer programs that can operate in a Windows environment.

### **COMPUTER AIDED DESIGN (CAD) (previously called 3D COMPUTER MODELLING)**

This elective offers students a unique opportunity to gain the necessary skills to use Solidworks, our engineering software to design and model in three dimensional space. Solidworks is used widely in manufacturing and in many Victorian university courses, specifically Engineering, Product Engineering and Product Design.

The focus of the CAD course is on the design process, considering the life cycle of products and environmental considerations. Students create parts, assemblies and clearly annotated 2D drawings from their 3D designs. They enjoy discovering the many functions within Solidworks which allow for easy manipulation of models. Students can also analyse the structural integrity of their model using Cosmosxpress, a built-in analysis tool or view models as animations, place them in virtual environments or finally construct them using rapid prototyping technology.

CAD is recommended for those students interested in continuing with Design and Technology or VCD (Visual Communication and Design).

### **COMMERCE (The World of Business)**

This elective will provide you with the skills necessary to understand how successful small businesses operate, and the factors in the economy that contribute to their success or failure. You will gain an understanding of the world of commerce by investigating a range of practical case studies. This course also looks at developing your awareness of personal finance. You will compete in the ASX Schools Sharemarket Game, and learn to develop your investment skills.

Students gain an understanding of the basic concepts relating to Accounting, Business Management and Legal studies. Those who do not intend to pursue these subjects in Year 11 will at least gain an understanding of how the business world operates.

### **DESIGN AND TECHNOLOGY**

This elective provides students with an opportunity to develop their creativity, problem solving and technical skills related to materials and technology. Students investigate,

design, produce and evaluate their work according to a Design Brief. This involves understanding design constraints, investigating design and technical solutions, evaluating and selecting materials and making choices regarding style, joining methods and finish. Students record processes in their Design Journal. This involves recording the development of work through pictorial representation and charts. The drawings are both informal freehand sketches and the formal representations, which include dimensions and annotations (notes). The written work covers the properties of materials, relevant ergonomics and aesthetics (appearance). Students create a cutting list, a bill of materials to estimate the final cost of their projects and mark out, construct, finish and present their work which is then evaluated against evaluation criteria. Emphasis is given to creative design, furniture construction skills and safe use of a range of simple and more sophisticated hand and portable power tools. Broader issues of technology are also investigated, including its importance in our everyday lives and impact on society and the natural environment. This course is recommended for those students interested in pursuing the VCE Design and Technology course.

## **DRAMA**

This can be studied for a FULL YEAR or either SEMESTER.

### **Semester One**

Let's Get Physical – Physical theatre/dance and performance art. (Term One)

What is Physical Theatre? You will learn to tell stories and ideas with your body instead of just your voice, exploring abstract concepts, ideas and images that concern you and using them to create engaging performance art.

'Alien-Nation' – Documentary Drama and Epic Theatre. (Term Two)

You will learn how to make your audiences think, sometimes confuse them, weird them out and sometimes leave them wanting more. Looking at real events, issues and situations and turning them into performance pieces.

### **Semester Two**

Creating convincing characters (Term Three)

Devise and explore the idea of character. You will learn how to distance yourself from the real you, and become anything you want. You will develop a series of solo performances, both through pre-existing texts and creating your own.

World Theatre and Theatre of Cruelty. (Term Four)

Explore the true function and power of the theatre from around the world. We will use various performance

styles to create and present original stories. We propose experimenting with the relationship between performers and audience by producing mythic spectacles that include mixed forms of Theatre and drama from pulsating lighting effects, to oversized stage puppets, props and multi media events.

\*\*\*If you choose the Drama Elective you are required to provide and wear Drama Blacks and will be required to participate in the senior play\*\*

## **ENVIRONMENTAL SCIENCE**

This elective will enable you to make a real change to the environment you live in. Learn about the major threats the planet faces. What solutions are there and how realistic are they? Work on your local environment to make it a better place to live. Improve biodiversity within the school by planting indigenous trees in the science garden. Work with students in the primary school to help educate them about the environment. Environmental Science is a hands-on course which allows students to choose what it is they would like to learn

about and then gives them an opportunity to share this information with their peers and other students within the college.

## **INFORMATION TECHNOLOGY**

This course is designed to enable students to analyse information problems and create solutions using technology. In doing so, students use a wide range of equipment (hardware and software), techniques and procedures for processing and communicating information so that they can develop and produce solutions to meet specific needs. The course is designed for students to develop their skills in preparation of VCE Information Technology. During the semester, there are three main areas of study. The focus will be on using Microsoft Access, a database application. The second area of study will use Macromedia Dreamweaver to create a website on data security and the third area concentrates on spreadsheet application, MS Excel. There is a small theory component attached to the course, and in these lessons students will discover the composition of an information system and the meaning of the Information Processing Cycle.

## **MEDIA**

The Year 10 Media elective is a film and television course including:

### *The History of Film*

A brief introduction of the beginning of what we know as film today. How on Earth was film invented? How has it developed? Why is sound important? What are the pivotal films of our time?

### *Genre*

Films are classified into certain categories but what makes up these categories? Together, we will specifically look at how we can categorise films and do a close analysis of the horror genre. What are the main features of the genre? What films have made the genre what it is today?

### *Narrative*

To be a true film student, you need to know how the film is making you feel – through VISUAL and AUDIO techniques. Why are certain shots used? Why is that piercing sound used? Why can't films just always use music I like? Why on Earth is that character dressed in black? Why was that character killed off – I liked her?

### *Film Production*

Using the techniques learnt about in class, students will plan, technically shoot and edit their own horror films to spook and show their understanding of the visual and audio capabilities of film.

### *Representation and Television*

After a case study of the supernatural sitcom, students will look at the way in which certain people, images or situations are presented in television. Why do they make that character look a certain way? Why is that character evil and that one good? How is the family represented on TV? What are the images on TV telling us about this time?

## **MUSIC**

The elective Music course at Year 10 level follows the VCE Music Performance course. Students may choose to study Music for one semester, in which case they will undertake Unit 1 of the VCE course. Alternatively they may study Music for the whole year, therefore completing both Units 1 and 2 of the VCE course.

VCE Music Performance develops intellectual, aesthetic and cultural understanding of music in solo and group settings. As soloists and members of groups, students develop skills in preparing programs of works. They learn about and apply musicianship as they create, interpret and analyse music in a range of styles.

In the performance of music, students develop their skills on a main instrument or voice. They research and apply relevant performance skills, theory of music and socio-cultural influences on the music studied. In composition tasks students develop their theoretical understanding of the components of music and stylistic conventions. They will develop their aural perception and analytical skills through listening and responding to live performances and recorded works.

All elective Music students are expected to be currently enrolled in a course of private instrumental tuition, and to participate in an official College Music Ensemble. By undertaking Year 10 Music, students are agreeing to abide by these conditions.

### **PHOTOGRAPHY**

In this course students will learn how to create artistic black and white and colour photographs using the school's digital cameras. Students will learn the art of composing a photograph and learn to use the various functions of the camera to produce photographs that capture a range of themes, moods and effects. Digital manipulation of photographs will be explored using Adobe Photoshop. The theory component of the course will involve a study of some of the world's master photographers. Students will also be required to complete two major assignments as well as class work over the Semester. An excursion outside of the college to a place of interest will occur so that students can gain experience with preparing for a photo shoot. Year 10 Photography can lead to further studies at Year 11 in Art or Design subjects.

### **VISUAL COMMUNICATION AND DESIGN**

The Year 10 Visual Communication and Design course aims to prepare students for the VCE. Students are exposed to a wide range of drawing systems, design approaches and media. Students will be set a number of design briefs for which they must produce a creative and most suitable solution. Projects include instrumental drawing, product design, computer enhanced imagery, packaging or model making and symbology. Students will complete a folio of work including development work in their visual diary.

Various aspects of theory such as the use of design elements, principles and the design process will be taught in this subject. Students will research various product, information and environmental designs. Technology will be integrated into the subject with the use of computer software programs such as Photoshop and Illustrator. Viewing videos, and attending relevant excursions or presentations by visiting artists may occur to complement the study of visual communication.