

# INFORMATION for STAGE 6 STUDENTS

Inspire. Explore. Create.

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### Please note:

- 1. Some courses carry fees which are subject to change. See the relevant teacher of the course for final fees.
- 2. Course information is subject to change. Please see the relevant teachers for any changes in course information.

### 1. GENERAL INFORMATION

### **STAGE 6 2020 - 2021**

### (a) HIGHER SCHOOL CERTIFICATE STUDENTS MUST:

- Study English English will still be the only compulsory subject for all students.
- Satisfactorily complete 12 units of Preliminary courses (Year 11).
- Satisfactorily complete 10 units in the HSC pattern of study (Year 12)
- Study in each year:
  - at least six units from Board Developed Courses
  - at least two units of a Board Developed Course in English
  - at least three courses of two unit value or greater
  - at least four subjects

### (b) <u>Note</u>:

- The Preliminary component of a course must be satisfactorily completed before commencing the HSC component of the course.
- NSW Board Courses cannot be picked up in the HSC years except:
  - a. Extension Courses
  - **b. Non ATAR TAFE Courses** (if available through the Careers Adviser.)
- A student may study no more than six units of courses in Science.
- A student's ATAR is calculated from their best ten units of Board Developed Courses.

### (c) HSC PATHWAYS

- Most students follow a two-year program of study in years 11 and 12 leading to the Higher School Certificate
- You may accumulate the Higher School Certificate over a period of up to five years. The five year period commences in the first year you complete a HSC course. Preliminary courses may, but need not, be accumulated within this period.

### 2. GLOSSARY OF TERMS

Listed below are explanations of some of the terms used throughout this booklet.

### **NSW Educational Standards and Accreditation (NESA)**

The independent Government Board responsible for the K-Yr 12 curriculum and registration of all NSW schools and the conduct of Higher School Certificate and School Certificate examinations.

### **Board Developed Course**



A subject whose syllabus has been provided by the Board of Studies. It is assessed by public examination at the end of **STAGE 6.** 

### STAGE 6

Refers to Year 11 and 12

### **Vocation Education & Training Courses (VET)**



#### Not ATAR Friendly

- VET courses are dual accredited ie. They count towards the Higher School Certificate and TAFE (AQF).
- A range of VET Courses are also delivered through local TAFES. These are referred to as TVET subjects.
- Only certain VET/TVET courses can contribute to an ATAR.

### **Content Endorsed Course**



A subject whose syllabus has been designed by the Board of Studies to replace many similar courses designed by schools.

### One Unit (1 U)

A course of study that involves a teaching time equivalent to 4x 60 minute periods/fortnight.

### Two Unit\_(2U)

A course of study that involves a teaching time equivalent to 7x 60 minute periods/fortnight.

#### Extension 1

A course of study that involves a teaching time equivalent to 4x 60 minute periods/fortnight.

### **Extension 2 (HSC only)**

A course of study that involves a teaching time equivalent to 8x 60 minute periods/fortnight.

#### Unit Value

One unit of study is equivalent to a possible 50 marks.

### **ATAR**

Is the Australian Tertiary Admission Rank. Visit <a href="http://www.uac.edu.au/atar/index.shtml">http://www.uac.edu.au/atar/index.shtml</a> for more information. (English must be used, only 1 category B subject can be used, and you must have 10 units.)

### UAC

University Admissions Centre, the body who handles the calculation of ATAR's and produces the UAC book for students to choose from various NSW Tertiary Institutions (Universities)



# 3. COURSES FOR STUDY FOR 2020

We anticipate offering the following subjects for study at the Preliminary Level (year 11) in 2020 (provided there are adequate numbers and resources for viable classes)

### (A) BOARD DEVELOPED COURSES

Agriculture	Geography	
Ancient History	Industrial Technology Graphics	
Biology	Investigating Science	
Business Studies	Italian (Beginners)	
Chemistry	Legal Studies	
Commerce	Mathematics – Standard 2	
Community and Family Studies	Mathematics	
Design and Technology	Mathematics – Extension1 (1 Unit)	
Drama	Modern History	
Earth and Environmental Science	Music 1	
Economics	Personal Development Health and Physical Education	
Engineering Studies	Physics	
English - Advanced	Society and Culture	
English - Standard	Visual Art	
English - Studies		
English – Extension 1 (1 unit)		
Food Technology		
French (Beginners)/ Italian (Beginners)		
All Board Developed Courses are worth 2 Units unless otherwise indicated		

### (B) Including VOCATIONAL EDUCATION & TRAINING COURSES

### **School Delivered VET Subjects:**

Studies of English	Mathematics – Standard 1	
VET Skills for Work	VET Metal and Engineering	
VET Primary Industries	VET Tourism and Hospitality (Hospitality	
	Operations)	
VET Entertainment	VET Construction	
VET Information Digital Technology		

### (C) CONTENT ENDORSED COURSES

These courses do not count towards an ATAR

### Not ATAR Friendly

Computer Applications	Visual Design	VET Furniture Making
Exploring Early Childhood	Work Studies	VET Skills for Work (New!)
Marine Studies		VET Sport Coaching
Sport, Lifestyle and Recreation		

NB: the number of units is indicated for each course in the blue information section

### 4. OVERVIEW OF COURSES

- You should read this information and use it in conjunction with what you can find out from other students and our teachers.
- A **SUBJECT MARKET** WILL BE HELD ON WEDNESDAY Week 3 of Term 3 in the school hall between 5.30 p.m. 6:30 p.m.
- Students and Parents will be given an opportunity to ask questions and seek advice from teachers currently teaching year 11 and 12 subjects. Representatives from Wollongong TAFE and Wollongong University should also be available.

### (A) BOARD DEVELOPED COURSES (2 Units of Study)



# **AGRICULTURE**

Course Advisor: Mr S Brown

### **Course Description**

The Preliminary course incorporates the study of the interactions between the components of agriculture production, marketing and management, while giving consideration to the issue of sustainability of the farming system. This is an 'on-farm', environment-orientated course.

The HSC course builds upon the Preliminary course. It examines the complexity and scientific principles of the components of agriculture production, but places a greater emphasis on the place of the farm in the wider economic, environmental and social environment. The farm as a fundamental production unit provides a basis for analysing and addressing social, environmental and economic issues as they relate to sustainability, from national and international perspectives. This is achieved through the Farm Enterprise/Product Study.



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Category A

# **ANCIENT HISTORY**

Course Advisor: MrA Moore & Mrs J. Wilkinson

### Course Fee: Nil

### **Course Description**

The new curriculum (2020) engages students in a broad range of investigations of life in early societies (Egypt, Rome, Greece and Near East). These investigations are based on the analysis and interpretation of physical and written remains with the aim of developing knowledge and understanding of the Ancient World. The course will develop students value in appreciating the influence of the past on the present and the future. It offers students the opportunity to investigate the possible motivations and actions of individuals and groups, and how they shaped the political, social, economic and cultural landscapes of the ancient world. Ancient History introduces students to a range of cultures and beliefs as well as to the origins and influences of ideas, values and behaviours that are still relevant in the modern world.

Today, the study of Ancient History is relevant as it equips students with the skills to analyse and challenge accepted theories and interpretations about the ancient world, especially in light of new evidence and technologies. It requires students to analyse different interpretations and representations of the ancient world in forms such as literature, movies and museum displays. It encourages students to appreciate our responsibility for conserving and preserving the world's cultural heritage.

The new Year 11 course (2020) examines the use of archaeology and written sources to investigate various aspects of the ancient world, including historical sites, people, societies, events and developments. Students will investigate sources and sites such as Otzi the Iceman and mummified remains. They will learn about the Roman games, focusing on Circus Maximus and gladiators, or the Trojan Wars including Greek Gods and Homer's Iliad. The students will also learn about Teotihuacan, the Myans and Aztec- including their practises of human sacrifice. A more detailed depth study focusing on Ancient Rome and Egypt will be undertaken to provide students with a comparative study of key features of different civilisations. The Historical Investigation is still in the course and it allows students the opportunity to investigate an area of interest, as they design their own question and answer them using source analysis skills.

The new Year 12 course (2020) has continued with the same core Study of Pompeii and Herculaneum, which involves looking at the evidence post AD79 eruption in an attempt to reconstruct the past. Students will then undergo a depth study of one ancient society (Sparta) through an investigation of a range of archaeological and written sources. Students will learn about the historic writing of Herodotus and Aristotle and examine the bloody battles surrounding the Spartan army. Students will study either Alexander the Great or Xerxes and will conduct an investigation to their persons rise, key features and evaluation and complete a source study about them. The course will finish with an in-depth study of a historical period. Here students will learn about the nature of power and authority and significant developments of this period.



# **BIOLOGY**

Course Advisor: Ms S Horsley

### Course Fee: \$11

### **Preliminary**

- Cells and the Basis of Life
- Organisation of Living Things
- Biological Diversity
- Ecosystems

### **Course Description**

### **HSC**

- Heredity
- Genetic Change
- Infectious Disease
- Non-infectious Disease & Disorders

The Year 11 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 11 School based assessment requirements include three mandatory assessment tasks. One of which is a 15 hour Depth Study which will have both class and independent study components.

The Year 12 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 12 School based assessment requirements include four mandatory assessment tasks. One of which is a 15 hour Depth Study which will have both class and independent study components.

The *Biology Stage 6 Syllabus* explores the diversity of life from a molecular to a biological systems level. The course examines the interactions between living things and the environments in which they live. It explores the application of biology and its significance in finding solutions to health and sustainability issues in a changing world.

The study of Biology in Stage 6 enables students to develop an appreciation and understanding of biological concepts that are used to explore the diversity of life, from a molecular to a biological systems level, and the interactions between living things and the environments in which they live. Through applying Working Scientifically skills processes and the use of biological technologies, the course aims to examine how biological practices are developed and used.

The course provides the foundation knowledge and skills required to study biology after completing school, and supports participation in a range of careers in biology and related interdisciplinary industries. It is a fundamental discipline that focuses on personal and public health and sustainability issues, and promotes an appreciation for the diversity of life on the Earth and its habitats.



# **BUSINESS STUDIES**

Course Advisor: C Naydovska and Ms R Seberry

Course Fee: Nil

### **Course Description**

Business Studies is a course designed to enable students to participate effectively in a changing business world. The course provides students with an opportunity to bridge the gap between school and work and develop a range of business related skills. Students completing this course will develop general and specific skills including research, analysis, problem solving: decision making, critical thinking and communication. Students interested In careers in business, finance, marketing, commerce and law will find this course interesting and useful.

Business Studies investigates the role, operation and management of businesses within our society. Factors in the establishment, operation and management of a small business are integral to this course. Students investigate the role of global business and its impact on Australian business.

### **Preliminary**

- Nature of Business
- Business Management
- Establishing a Business Plan

#### **HSC**

- Business Operations
- Finance
- Marketing
- Human Resources

**Particular Course Requirements:** Throughout the course many small business examples are used to explain the business concepts required.

# **CHEMISTRY**

Course Advisor: Mrs S Imber

### Course Fee: \$12

### **Course Description**

### **Preliminary**

- Properties of Structure of Matter
- Introduction to Quantitative Chemistry
- Reactive Chemistry
- Drivers of Reactions

### **HSC**

- Equilibrium and Acid Reaction
- Acid/base Reactions
- Organic Chemistry
- Applying Chemical Ideas

The Year 11 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 11 School based assessment requirements include three mandatory assessment tasks. One of which is a 15 hour Depth Study which will have both class and independent study components.

The Year 12 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 12 School based assessment requirements include four mandatory assessment tasks. One of which is a 15 hour Depth Study which will have both class and independent study components.

The *Chemistry Stage 6 Syllabus* explores the structure, composition and reactions of and between all elements, compounds and mixtures that exist in the Universe. The discovery and synthesis of new compounds, the monitoring of elements and compounds in the environment, and an understanding of industrial processes and their applications to life processes are central to human progress and our ability to develop future industries and sustainability.

The study of Chemistry in Stage 6 enables students to develop an appreciation and understanding of materials and their properties, structures, interactions and related applications. Through applying Working Scientifically skills processes, the course aims to examine how chemical theories, models and practices are used and developed.

The course provides the foundation knowledge and skills required to study chemistry after completing school, and supports participation in a range of careers in chemistry and related interdisciplinary industries. It is an essential discipline that currently addresses and will continue to address our energy needs and uses, the development of new materials, and sustainability issues as they arise.

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# **COMMUNITY & FAMILY STUDIES**

Course Advisor: Mrs S Gore

Category A

### Course Fee: Nil

### **Course Description**

Community and Family Studies is a 2 unit course designed to develop in each student an understanding of the nature of families, their role in the community and an understanding of the nature of Australian society. There is an emphasis on planning and managing resources effectively. Some of the topics covered include Family Studies, Parenting and Caring, Groups in Society, Individuals & Work, Leadership and Management of Resources. Students will develop skills in research & complete a research project reflecting individual areas of interest. This course would be of benefit to all students, particularly those choosing careers in Child Care, Teaching, Nursing, Policing and Social Work.

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# **DESIGN & TECHNOLOGY**

Course Advisor: Mrs S Gore

### Course Fee: \$30

### **Course Description**

This course is concerned with the study of technology through design. It involves practical experiences in designing and producing in a variety of areas such as food, fashion, electronics, timber, interior design, advertising or any area of your choice. Students are able to choose from a broad range of design areas.

Design and Technology has been developed to attract students of all levels of ability and allows them the freedom to pursue and design in areas of their own choice. Students with skills and knowledge gained through a study of Design and Technology have the potential to contribute positively to Australia's economic, social, ecological and technological future.

Learning experiences extend from school-based activities to the world beyond school. Students will complete several design projects of their own choice and interest and complete a major design project. This course would be of benefit in many areas of life and in many careers such as design, fashion, advertising, and teaching.

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Course Advisor: Ms E. Richmond

DRAMA

Course Fee: \$25

### **Course Description**

Drama, for the HSC is a full 2 Unit course that is predominantly practical. It involves activity in improvisation, play building, acting, performance and production. There is also a theoretical component that requires a critical analysis and evaluation of the function of drama and theatre in society. Students choosing this course must be self motivated and able to work in groups. Assessment requires group and individual performances, production of a major work, such as stage or costume design and written and analysis as well a submission of a personal log.



# EARTH & ENVIRONMENTAL SCIENCE

Course Advisor: Mr J Trist

### Course Fee: \$12

### **Course Description**

### **Preliminary**

- Earth's Resources
- Plate Tectonics
- Energy Transformation
- Human Impacts

### **HSC**

- Earth Processes
- Hazards Time
- Climate Science
- Resource Management

The Year 11 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 11 School based assessment requirements include three mandatory assessment tasks. One of which is a 15 hour Depth Study which will have both class and independent study components.

The Year 12 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 12 School based assessment requirements include four mandatory assessment tasks. One of which is a 15 hour Depth Study which will have both class and independent study components.

The *Earth and Environmental Science Stage 6 Syllabus* explores the Earth's renewable and non-renewable resources and also environmental issues. An understanding of the Earth's resources and the ability to live sustainably on the planet is a central purpose of the study of Earth and Environmental Science.

The study of Earth and Environmental Science in Stage 6 enables students to develop an appreciation and understanding of geological and environmental concepts that help explain the changing face of the Earth over time. Through applying Working Scientifically skills processes, the course aims to examine how earth and environmental science models and practices are used and developed.

The course provides the foundation knowledge and skills required to study earth and environmental science after completing school, and supports participation in careers in a range of related industries. The application of earth and environmental science is essential in addressing current and future environmental issues and challenges. It is also necessary for the use and management of geological resources that are important to Australia's sustainable future.

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Category A

**ECONOMICS** 

Course Advisor: Ms S Moran

### Course Fee: Nil

### **Course Description**

Economics is the key to the world of business, government and management.

Whether you wish to manage a shop, salon, government department or multinational firm, Economics gives you the basics of management. Accounting, Commerce and Management at University or TAFE all revolve around understanding economic principles. This is demonstrated by the fact that this is one of the subjects most valued for employment in the financial sector.

### Economists study:

- demand and supply
- money, finance and interest rates
- taxation, government and welfare
- distribution of income and wealth
- environmental economics



# **ENGINEERING STUDIES**

Course Advisor: Mr M Kirk

### Course Fee: \$25

### **Course Description**

The course seeks to teach engineering through the study of a number of engineering application modules. It introduces the student to a range of engineering concepts through the study of a series of applications such as appliances, products, devices that are familiar to the student. These may include Electric Kettle, Wheelbarrow, Car Braking System, Bicycle, Bridge Structures and Lifting Devices such as a car jack or crane. By considering "real" applications the student is better able to relate to the modules being studied. Each application module will be studied for approximately 6 weeks, at the end of which the student must prepare an Engineering report on the application. Five application modules must be studied in both the Preliminary and HSC courses.

2U Board Dev

Category A

# ENGLISH – STANDARD & ADVANCED

Course Advisor: Ms M McGregor

### Course Fee: Nil

### **Course Description**

English is the only mandatory subject at both Preliminary and HSC levels. Two basic courses are offered in Years 11 and 12 - Standard & Advanced English. At Preliminary level both courses begin with a common module followed by two mandated modules. At HSC level both courses complete a common module, followed by three modules that are specific to each course. Students may change from Advanced to Standard between Years 11 and 12, but not from Standard to Advanced. Advanced students may also choose an extra unit of English, Extension 1 in Year 11. In Year 12 these students may choose to pick up a fourth unit called Extension 2 English which entails the writing of a major work. Extension 2 English is only offered in Year 12.

2U Board Dev

Category A

# **ENGLISH — EXTENSION 1**

Course Advisor: Ms M McGregor

### Course Fee: Nil

### **Course Description**

This is a course for students with high level skills in reading (i.e. comprehension and analysis of texts), and essay and creative writing – you must be in Advanced English to participate in this course. You do need to have a real interest in English because it is a demanding course – you need to be a reader because it is expected that you will come to class having read the text currently being studied. Not only are you expected to read the core works, you must find your own related texts and be able to develop a thesis that links core and related texts into a rational (coherent, convincing) argument. It is expected that you will work independently and contribute your ideas and findings in small group situations.

You will also spend time developing your creative writing skills – exploring narrative techniques, examining how writers create particular effects, using your imagination to compose within the conventions of the chosen genre.

There are assessment tasks and examinations which will assess your skill level.

Having said all that, English Extension offers wonderful opportunities for the interested students to explore texts, to be fully involved in the lively discussion and to cultivate their writing skills.

# **FOOD TECHNOLOGY**

Course Advisor: Mrs S Gore

### Course Fee: \$70 per year

### **Course Description**

Food Technology involves both theory and practical work. It involves students learning about the production, processing and consumption of food and its impact on society. Students also learn how food is important to health and its impact on human nutrition. Students choosing this course should have an interest in food and how it relates to the body and society. Assessment requires students to design, implement and evaluate solutions to food situations. Food Technology is suited to people who want a career in Hospitality, Hotel and Event Management, Teaching, Tourism, and Nutrition and Design.



# FRENCH/ITALIAN BEGINNERS

Course Advisor: Mrs M Capilli

### Course Fee: \$10

### **Course Description**

French 2 Unit for beginners and Italian 2 Unit for beginners are courses designed for Year 11 students with little or no previous knowledge. Study of this course will benefit both ATAR and non-ATAR students.

### Topics include:

- People, Places and Communities
- Family,Life,,Home and Neighbourhood
- Friends, Recreation and Pastimes
- Education and Work
- Holidays, Travel and Tourism
- Future Plans and Aspirations

The study of a second language is strongly recommended to benefit ATAR results and employment opportunities enhancement.

In 2020 there is an overseas trip to Italy to enhance the oral, listening, speaking and reading skills!!

# **GEOGRAPHY**

Course Advisor: Mr D Bateman

Course Fee: Nil

### **Course Description**

The study of geography allows students to perceive the world in a variety of ways and helps them make sense of a complex and changing world. Students will develop skills and understanding transferable and applicable to post school studies, areas of future employment and for active participation as informed citizens.

In the Year 11 Preliminary Course, students will look at the areas of:

- a) The Biophysical Environment (how the natural world actually works) and
- b) Global Challenges (e.g. Population pressures e.g. asylum seekers and Natural Resources e.g. uranium/nuclear research etc....)

Also students are given the opportunity to conduct their own geographical investigation over the duration of the course by means of The Senior Geography Project e.g. issues related to their surrounding area, flooding, graffiti, traffic, vandalism etc. As well, throughout the course at least ten hours of practical work will be completed outside the classroom by means of field studies eg Minnamurra River by canoe, bushwalks, overnight hikes, etc.

In the **Year 12 H.S.C. Course** students will look at the areas of:

a)Ecosystems at Risk- case studies of Minnamurra Rainforest and The Great Barrier

Reef b)<u>Urban Places-</u> world cities- New York, London, Paris and Tokyo, MEGA CITIES and
Urban Dynamics c)<u>People and Economic Activity</u>- Viticulture and wine making

Again, students have an opportunity of practical work outside the classroom with at least ten hours of field study e.g. Minnamurra Rainforest, overnighter in Sydney and a Gerringong winery.

Geography skills are developed throughout the Preliminary and H.S.C. Courses.

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# INDUSTRIAL TECHNOLOGY GRAPHICS

Category A

Course Advisor: Mr M Kirk

Course Fee: \$25

### **Course Description**

Industrial Technology is a practical, 2 Unit course for Years 11 & 12. Industrial Technology Graphics focuses on specific skills and knowledge associated with Architectural design, Interior Design and computer aided design (CAD) such as,

- Drawing and designing skills to allow you to manage and design a major project primarily using free hand sketches to computer aided drawings. This major project will be worth 60% of the final HSC assessment in this subject.
- Engineering and product drawings
- environmental issues associated with the building and design industry

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### THE PRELIMINARY COURSE

The preliminary course uses Project Work as a means of attaining the required designing and drawing skills and associated theoretical knowledge to study architectural design.

### THE HSC COURSE

The HSC course will focus on the student's own major work. The major work will be marked by external examiners and will form part of both the school's assessment and the HSC assessment. A folio will accompany the major work and will show evidence of planning and management of the major work.

Students electing Industrial Technology must construct a major work that should incorporate a set of related drawings around the design and planning of a product or structure.

There are no pre-requisites for Industrial Technology however those students that have studied Industrial Technology – Graphics or Timber Technology in the junior school would find their knowledge and skills from those subjects an advantage in this course.

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# Information Processes & Technology

Course Advisor: Mr A Walker

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### Course Fee: Nil

### **Course Description**

The Information Processes and Technology Stage 6 course, teaches students about information-based systems. It covers the processes of collecting, organising, analysing, storing and retrieving, processing, transmitting and receiving and displaying, as well as the technologies that support them. Those include music, the arts, science and technology as well as new and fast growing industries that use multi-media with this background, students will be well placed to adapt to new technologies as they emerge.

NB 1 Unit Computer Applications cannot be taken with this course.

# **INVESTIGATING SCIENCE**

Course Advisor: Ms S Horslev

### Course Fee: \$11

### **Course Description**

### **Preliminary**

- Cause and Effect Observing
- Cause and Effect Inferences and Generalisations
- Scientific Models
- Theories and Laws

### **HSC**

- Scientific Investigations
- Technologies
- Fact and Fallacy
- Science and Society

The Year 11 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 11 School based assessment requirements include three mandatory assessment tasks. One of which is a 30 hour Depth Study which will have both class and independent study components.

The Year 12 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 12 School based assessment requirements include four mandatory assessment tasks. One of which is a 30 hour Depth Study which will have both class and independent study components.

The *Investigating Science Stage 6 Syllabus* is designed to assist students of all abilities engage with scientific processes, and apply those processes to investigate relevant personal, community and global scientific issues.

The study of Investigating Science in Stage 6 enables students to develop an appreciation and understanding of science as a body of knowledge and a set of valuable processes that provide humans with an ability to understand themselves and the world in which they live. Through applying Working Scientifically skills processes, the course aims to enhance students' analytical and problem-solving skills, in order to make evidence-based decisions and engage with and positively participate in an ever-changing, interconnected technological world. The Investigating Science course is designed to complement the study of the science disciplines by providing additional opportunities for students to investigate and develop an understanding of scientific concepts, their current and future uses, and their impacts on science and society. The course draws on and promotes interdisciplinary science, by allowing students to investigate a wide range of STEM (Science, Technology, Engineering and Mathematics) related issues and concepts in depth.

Investigating Science encourages the development of a range of capabilities and capacities that enhance a student's ability to participate in all aspects of community life and within a fast-changing technological landscape. The knowledge, understanding and skills gained from this course are intended to support students' ongoing engagement with science, and to form the foundation for further studies and participation in current and emerging STEM-related post-school activities and industries.



# **LEGAL STUDIES**

Course Advisor: Ms J Wilkinson and MS C Naydovska

Course Fee: Nil

### **Course Description**

Legal Studies aims to develop a student's knowledge and understanding of the legal system, how it operates and its effectiveness in promoting a just and fair society. This enables students to develop confidence in approaching and accessing the law, to be well informed about legal rights and responsibilities and to understand the processes of reform and changes in the law.

The Year 11 course focuses on the development of our legal system. Students develop knowledge and understanding of the nature and functions of law and law-making, the development of Australian and international legal systems, the Australian constitution and law reform. Students also investigate a diverse range of contemporary legal issues and cases. Visit to the local courts allow students to experience the law in action.

The HSC course investigates the key areas of crime and human rights through a variety of focus studies which consider how changes in societies influence the law. Students then choose two focus studies from the areas of family law, consumer law, work place law and world order. Throughout the course, students undertake research to learn about the operation of both domestic and international law. Investigation of a range of relevant cases adds to the students' knowledge.

# **Main Topics Covered Preliminary Course**

- The Legal System 40% of course time
- The Individual and the law 30% of course time
- Law in practice 30% of course time

### **HSC Course**

- Core: Crime 30% of course time
- Core: Human Rights 20% of course time
- Option topics: Family and World Order 50% of course time

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Category A

# **M**ATHEMATICS

Course Advisor: Mr A Duffy

### Course Fee: **\$10 + \$22**

### **Course Description**

The course is intended to give students who have demonstrated general competence in the skills of stage 5 Mathematics, an understanding of and competence in some further aspects of mathematics which are applicable to the real world. It has general educational merit and is also useful for concurrent studies in science and commerce. The course is a sufficient basis for further studies in mathematics as a minor discipline at tertiary level in support of courses such as the life sciences or commerce. Students who require substantial mathematics at a tertiary level supporting the physical sciences, computer science or engineering should undertake the Extension course.

**Pre-requisites:** Demonstrated competence in the 5·3 outcomes of the Stage 5 Mathematics course.



# **MATHEMATICS STANDARD 2**

Course Advisor: Mr A Duffy

Course Fee: **\$10 + \$22** 

### **Course Description**

The Mathematics Standard courses are focused on enabling students to use mathematics effectively, efficiently and critically to make informed decisions in their daily lives. They provide students with the opportunities to develop an understanding of, and competence in, further aspects of mathematics through a large variety of real-world applications for a range of concurrent HSC subjects.

Mathematics Standard 1 is designed to help students improve their numeracy by building their confidence and success in making mathematics meaningful. Numeracy is more than being able to operate with numbers. It requires mathematical knowledge and understanding, mathematical problem-solving skills and literacy skills, as well as positive attitudes. When students become numerate they are able to manage a situation or solve a problem in real contexts, such as everyday life, work or further learning. This course offers students the opportunity to prepare for post-school options of employment or further training.

Mathematics Standard 2 is designed for those students who want to extend their mathematical skills beyond Stage 5 but are not seeking the in-depth knowledge of higher mathematics that the study of calculus would provide. This course offers students the opportunity to prepare for a wide range of educational and employment aspirations, including continuing their studies at a tertiary level.

### Knowledge, Understanding and Skills

### Students:

- develop the ability to apply reasoning, and the use of appropriate language, in the evaluation and construction of arguments and the interpretation and use of models based on mathematical concepts
- develop the ability to use concepts and apply techniques to the solution of problems in algebra and modelling, measurement, financial mathematics, data and statistics, probability and networks
- develop the ability to use mathematical skills and techniques, aided by appropriate technology, to organise information and interpret practical situations
- develop the ability to interpret and communicate mathematics in a variety of written and verbal forms, including diagrams and graphs.



# **MATHEMATICS EXTENSION 1**

Course Advisor: Mr A Duffy

### Course Fee: **\$10 + \$22**

### **Course Description**

The content of this course, which includes the whole of the Mathematics course, and its depth of treatment indicate that it is intended for students who have demonstrated a mastery of the skills of the 5·3 outcomes of the Stage 5 Mathematics course. Mathematics and who are interested in the study of further skills and ideas in Mathematics. The course is intended to give these students a thorough understanding of and competence in aspects of Mathematics including many which are applicable to the real world. It has general educational merit and is also useful for concurrent studies of science, industrial arts and commerce. The course is a recommended minimum basis for further studies in Mathematics as a major discipline at a tertiary level, and for the study of Mathematics in support of the physical and Engineering Sciences.

ATAR Friendly

2U Board Dev

Category A

# **MODERN HISTORY**

Course Advisor: Mrs S Moran

### Course Fee: Nil

### **Course Description**

The new curriculum (2020) provides students with a broad range of learning topics from the beginning of the 20<sup>th</sup> Century (1900s) up to more recent times. Modern History enables students to trace the historical background of contemporary issues and to explore the significance of individuals, events and ideas. It equips students with knowledge, understanding and skills to help them examine and make sense of the world around them.

The new Year 11 course (2020) will embody many investigations into the significance of historic sites and sources- examining places like the Quarantine Station at North Head, Sydney or Life in the Rocks (19<sup>TH</sup> Century) as well as case studies that include the Decline and Fall of the Romanovs in Russia during the Great War and The Cuban Revolution involving communist rule and the ideologies and impacts of Fidel Castro and Che Guevara. World War One is still a focus from battles, to propaganda and censorship to total war and the impacts on the homefronts of Britain and Germany. The Historical Investigation allows students the opportunity to investigate an area of interest, as they design and answer their own question using source evaluation.

The new Year 12 course (2020) starts with a focus on the era beyond The Great War (1919-1946), with a study of power and authority through different political movements, with Germany as the key focus. Students will then begin their National Study of USA (1919-1941) which provides the foundation learning for their Peace and Conflict study- Conflict in the Pacific. Students will examine Pearl Harbour, Japanese advance, POWs, the Atomic bombs and finally the War Crimes Tribunal. The final topic students investigate is Apartheid in South Africa, from the rise of the National Party, resistance, repression and the political end of apartheid, with the actions and motivations of Mandela intertwined through the topic.

Music 1

Course Advisor: Mrs Smith

Category A

### Course Fee: \$30

### **Course Description**

The Music 1 Syllabus is designed to provide senior school students with the opportunity to acquire skills, knowledge and experience to emerge as musically sensitive individuals with the capacity and desire for music to play a significant and continually developing role in their lives. Students undertaking the course will have widely differing needs and abilities and for this reason, the syllabus allows flexibility in the topic choice and areas of study.

Students considering Music 1, need only have completed the Mandatory Music course in years 7 and 8 for eligibility for this course. Students who have completed the Elective Music course in years 9 and/or 10, will also meet the required standard.

Students will study music in a variety of contexts through specific topics. A sample of these topics includes:

- Australia music
- Baroque music
- Jazz
- Popular music
- Theatre music
- Music of a culture
- Music for radio, film, television and multimedia
- Rock music
- Music of the 20<sup>th</sup> and 21<sup>st</sup> centuries.

Students will study PERFORMANCE, MUSICOLOGY, COMPOSITION and AURAL in at least THREE of the topics from the list above in the Year 11 course and another THREE in the Year 12 course.

ALL students who sit the Music 1 HSC examination, MUST do a minimum of ONE PERFORMANCE on either voice or instrument.

Elective music in Years 9 and 10 **IS NOT** a pre-requisite for this course.



# PD/H/PE

Course Advisor: Mrs M Gadd & Mr A Horsley

Course Fee: See Below

### **Course Description**

PDHPE is a course that engages students in the study of issues relating to Health and Physical Education. Throughout the two years of study students will be challenged to examine their own health and well-being in relation to their lifestyle and physical activity levels. The mysteries of the body are unlocked through the study of anatomy, physiology, training, performance, nutrition and the skill learning. The health of Australians is placed under the microscope through the identification of health priorities, factors impacting on health, health of young people, health promotion strategies and access to health facilities and services. Actions that need to be taken to address Australia's health issues are also investigated. A number of options chosen by the teachers including first aid, and outdoor recreation give the subject a chance to put the theoretical concepts into practise with relevant, interesting and practical experiences.

The subject tends to appeal to students who have enjoyed the content of PDHPE and PASS in the junior school, who are looking to further their knowledge in these areas during the senior years. The subject allows students to develop the skills to make informed decisions about a variety of health issues affecting Australians and perhaps most importantly, themselves. PDHPE is a THEORY based course, with some practical laboratory opportunities, it is very different to junior PDHPE. Senior PDHPE is an interesting and challenging subject that motivates students to be involved both inside and outside the classroom. It is a subject that links all content studied to real life experiences

Course Fee: Senior First Aid Course \$70 + Hike \$25

**PHYSICS** 

Course Advisor: Mr T Massarella

### Course Fee: \$12

### **Course Description**

### **Preliminary**

- Kinematics
- Dynamics
- Waves and Thermodynamics
- Electricity and Magnetism

### **HSC**

- Advanced Mechanics
- Electromagnetism
- The Nature of Light
- The Universe and the Atom

The Year 11 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 11 School based assessment requirements include three mandatory assessment tasks. One of which is a 15 hour Depth Study which will have both class and independent study components.

The Year 12 Course covers 120 indicative hours. This course includes 35 hours of Practical Investigations including time allocated to depth studies. The Year 12 School based assessment requirements include four mandatory assessment tasks. One of which is a 15 hour Depth Study which will have both class and independent study components.

The *Physics Stage 6 Syllabus* involves the study of matter and its motion through space and time, along with related concepts that include energy and force. Physics deals with the study of phenomena on scales of space and time – from nuclear particles and their interactions up to the size and age of the Universe. This allows students to better understand the physical world and how it works, appreciate the uniqueness of the Universe, and participate in navigating and influencing the future.

The study of Physics in Stage 6 aims to enable students to develop an appreciation and understanding of the application of the principles of physics, and of the theories, laws, models, systems and structures of physics. It also enables students to apply Working Scientifically skills processes to examine physics models and practices and their applications.

The study of physics provides the foundation knowledge and skills required to support participation in a range of careers. It is a discipline that utilises innovative and creative thinking to address new challenges, such as sustainability, energy efficiency and the creation of new materials.



# **SOCIETY & CULTURE**

Course Advisor: Ms J. Jones

### Course Fee: Nil

### **Course Description**

The central concern of the course, Society and Culture, is the interaction of people, societies, cultures, environments and time. The course has direct: relevance to the immediate needs of students and to their future lives by enabling students to develop an understanding of themselves, their own society and culture and the societies and cultures of others1. Society and Culture emphasises individual research and group work. It encourages students to manage their own learning, as well as provide the experience of working in teams by undertaking research in areas of study directly relevant to them.

Students who intend to pursue careers in sociology, psychology, allied health fields, education, anthropology, communication, cultural studies, media studies, philosophy and social ecology will benefit from undertaking this course.

### **Preliminary**

- The Social and Cultural World: 20% of course time
- Personal and Social Identity: 40% of course time
- Intercultural
  Communication: 40% of course time

### **HSC**

### **Core Topic**

Social and Cultural Continuity and Change: 30% of course time

#### **Major Assessment**

Social and Cultural Continuity and Change: 30% of course time

#### **Depth Studies**

Two to be chosen from: (40% of course time)

Popular Culture Belief Systems

Equality and Difference Work and Leisure

# **VISUAL ART**

Course Advisor: Mrs K Heffernan

Category A

### Course Fee: \$40

### **Course Description**

Visual Arts is a two unit subject in which 50% of the course is dedicated to practical study and the other half to critical and historical studies.

Visual Art students explore the creative possibilities of a diverse range of forms while expressing thoughts about the world and their place in it. In Year 12 students submit a practical body of self-developed artmaking – using their choice of:

- <u>Two Dimensional Forms</u> drawing, painting, printmaking, graphic design, photography and digital media.
- <u>Three Dimensional Forms</u> sculpture, ceramics, textiles and fibre, wearable, jewellery, architectural design and product design.
- <u>Four Dimensional Works/Time-Based Works</u> film and video, digital animation, documented forms, performance works and interactives.

Students investigate the role and function of artworks, art historians, art critics, artists and audiences from across cultures, traditions and times.

### (B) VOCATIONAL EDUCATION COURSES

### **School Delivered Subjects**

- Any student attempting a VET Course in Year 12 will sit for a half-yearly examination in each of their VET Courses. This examination mark will only be needed by students who sit for the Higher School Certificate Examination and who apply for an illness/misadventure appeal during the Higher School Certificate Examination timeframe.
- Please see separate document on our Website for at school VET courses.
- Only one of these courses (in yellow) can count towards a ATAR

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### MATHEMATICS – STANDARD 1

Course Advisor: Mrs K Heffernan

Category B

### **Course Description**

Course Fee: NIL courses are focused on enabling students to use mathematics effectively, efficiently and critically to make informed decisions in their daily lives. They provide students with the opportunities to develop an understanding of, and competence in, further aspects of mathematics through a large variety of real-world applications for a range of concurrent HSC subjects.

Mathematics Standard 1 is designed to help students improve their numeracy by building their confidence and success in making mathematics meaningful. Numeracy is more than being able to operate with numbers. It requires mathematical knowledge and understanding, mathematical problem-solving skills and literacy skills, as well as positive attitudes. When students become numerate they are able to manage a situation or solve a problem in real contexts, such as everyday life, work or further learning. This course offers students the opportunity to prepare for post-school options of employment or further training.

The course provides an appropriate mathematical background for students entering the workforce and/or undertaking further community and workplace training.

To be eligible for an ATAR, students studying the Mathematics Standard 1 course must undertake a pattern of study to satisfy the ATAR requirements and complete the optional HSC examination. For the purposes of calculating the ATAR, no more than 2 units from Category B courses can be included.

Students studying the Mathematics Standard 1 course may elect to undertake an optional HSC examination.

ATAR Friendly

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# **ENGLISH STUDIES**

Course Advisor: Ms M McGregor

Category B

### **Course Description**

Course Fee: Nil

personal, social and vocational lives. It offers a comprehensive language experience that is reflected in the modes of reading, writing, speaking, listening, viewing and representing.

Who should study this course? English Studies addresses the needs of a specific group of students who wish to complete and be awarded a Higher School Certificate but who are seeking an alternative to the current Standard English course.

The aim of English Studies is to enable students to understand, use, enjoy and value the English language in its various textual forms and to become thoughtful, imaginative and effective communicators in a diverse and changing society.

NB: **The English Studies external examination is OPTIONAL**, and if completed, will contribute to the awarding of an ATAR.

# (c) Content Endorsed Courses

NB: These courses count towards a Higher School Certificate but not towards an ATAR



# **COMPUTER APPLICATIONS**

Course Advisor: Mr A Walker

### **Course Description**

The course is designed to be flexible enough to meet the needs of a broad range of students. The course provides a set of modules from which a selection can be chosen to cater for the interest of student along a number of different paths. These modules enable a course to be developed for students who are new to computers as well as for those who have already significant experience. It is designed to be a very practical course and students will have the opportunity to use computers and computer equipment, scanners, digital cameras, in most lessons.

**NB** This course cannot be taken in conjunction with any other Information Technology/Computer course done at this school. Results in the course are not eligible for inclusion in the calculation of the Australian Tertiary Admission Rank (ATAR).

Not ATAR Friendly

Board Endorsed

# **EXPLORING EARLY CHILDHOOD**

Course Advisor: Mrs S Gore

### Course Fee: Nil

### **Course Description**

Exploring Early Childhood for the HSC is a 2 unit course that emphasises the importance of caring for young children, both as an employee at a facility and as a parent. This course involves observations in local **preschools** and long day care centres, practical experiences in art and craft, nutrition, story writing and toy making. There is a theoretical component that examines the stages in child growth and development. Students choosing this course must have a genuine interest in young children and be willing to be involved in interacting with them in group sessions, both at school and in the community. This course is very useful as background for students wanting to study Certificate and Diploma in Children's Services.

**NB** Results in the course are not eligible for inclusion in the calculation of the Australian Tertiary Admission Rank (ATAR).

Not ATAR Friendly

Board Endorsed

Course Fee: \$100

# **FURNITURE MAKING**

Course Advisor: Mr R Capilli

### **Course Description**

This course is a Vocational Education (Voc Ed) Course and gives the student **dual** accreditation on completion. The course not only counts towards the students HSC, but is also recognised in TAFE, by gaining credits into a related TAFE course on leaving school. The student will study a number of standardised National Modules relating to the Furniture Industry. The subject is **practical based** with most learning outcomes being achieved through the student constructing a series of compulsory graded projects and later free choice designs. Some modules will require written assignments. Course assessment is competency based. When a student has achieved a certain competency, they are signed off in a Student Log Book as having achieved that competency. A student is either competent or not yet competent.

### No examinations necessary.

**NB** Results in the course are not eligible for inclusion in the calculation of the Australian Tertiary Admission Rank (ATAR).

# **MARINE STUDIES**

Course Advisor: Mr J Trist

### **Course Description**

The oceans cover more than 70 per cent of the earth's surface and influence all forms of life on this planet. Of the thirty-three animal phyla, twenty-eight are found in the sea and thirteen are exclusively marine.

Marine Studies provides an opportunity for the future custodians of this environment to study it and to appreciate its value. It gives them the opportunity to develop the necessary knowledge and skills to use and protect its unique ecosystems, and at the same time communicate their appreciation to the community. It provides an opportunity to instill in students an acceptable ethical code towards use of the marine environment, increasingly demanded by the community and their governments. While this course is focused on oceans, it provides scope for the study of the full range of waterways.

Marine Studies provides an educational context, linked to the needs of a population based very much on its coast and waterways and which fosters links to tertiary study and vocational pathways. Further, this syllabus brings a wide range of marine-based leisure experiences to students in a safe setting. Marine Studies provides for both practical and theoretical learning, honing students' acquired skills to solve real life problems.

- A Marine Biology focus
  - Dangerous Marine Creatures
  - -Coral Reef Ecology
  - Anatomy and Physiology of Marine Organisms
- A Fishing focus
  - Dangerous Marine Creatures
  - -Commercial and Recreational Fishing
  - -Seafood Handling and
  - Marine Engineering
- A Boating focus
  - -Boating and Seamanship
  - Marine Craft Construction and Repair
  - Pilotage and Navigation
  - Marine Communication
  - Wind Powered Craft
- A Seafood Handling focus
  - -Commercial and Recreational Fishing
  - Anatomy and Physiology of Marine Organisms
  - Marine Engineering
- A Diving focus
  - Resuscitation Certificate
  - -First Aid Certificate
  - Dangerous Marine Creatures
  - -Coral Reef Ecology
  - Skin Diving and Diving Science (module 16)
  - -Marine Archeology (module 18)

- A Leisure focus
  - Resuscitation Certificate
  - -First Aid Certificate
  - -Sea Birds of Our Coast
  - -Skin Diving and Diving Science
- An Oceanography focus
  - -Estuarine Studies
  - -Coastal Studies
  - -Oceanography
  - Marine Engineering
  - Marine Archeology
- An Aquaculture focus
  - -Commercial and Recreational Fishing (module 10)
  - Aquaculture Anatomy and Physiology of Marine Organisms
  - -Seafood Handling and Processing
- A Coastal Studies focus
  - -Estuarine Studies
  - -Coastal Studies
  - Marine Resource Management Marine Engineering
- A Marine Ecology focus
  - -Dangerous Marine Creatures (module 3)
  - -Estuarine Studies (module 4)
  - -Coastal Studies (module 5)
  - -Coral Reef Ecology (module 6)
  - -Oceanography (module 7)
  - Anatomy and Physiology of Marine Organisms (module 14)



# SPORT, LIFESTYLE & RECREATION

Course Advisor: Mr R Neal & Mr A Horsley

### **Course Description**

Students will learn about the importance of a healthy lifestyle and recognise the need to be active, responsible and informed decision makers. This course encourages students to continue to develop their knowledge, skills and understanding of the role of sport, a healthy lifestyle and recreation in everyday life. The course aims to:

- Develop in students an awareness of social and community values in the areas of sport, lifestyle and recreation
- Promote an understanding of the requirements for healthy living
- Develop a deeper understanding of the interaction between society, sport, recreation and fitness
- Identify how sport influences and affects various groups and sections of our society
- Provide students with a greater understanding of their physical and sporting potential

SLR is mainly a PRACTICAL based subject. Students must apply a consistent effort to all practical activities and to enhance their understanding of their skills in the theoretical environment.

This course is a TWO year course.

### **Course Content (Theory and Practical)**

Aquatics, Squash, Golf, Badminton, Table Tennis, Ten Pin Bowling, Tennis, Strength Training, Fitness, First Aid, Resuscitation, Healthy Lifestyle, Sports Administration, Careers in Sport and History of Sport.

**Course Cost:** Weekly fee's for entry to some venues during the course (EG pool for aquatics unit)

# **VISUAL DESIGN**

Course Advisor: Mrs K Heffernan

### **Course Description**

Visual Design provides students with opportunities to explore the links between art and design, by designing and making images and objects in which the look is as important as its utilitarian function. It encourages students to explore the practices of graphic, wearable, product and interior/exterior designers in contemporary societies and promotes imaginative and innovative approaches to design within the context of the Australian environment and culture. Designed images and objects such as ceramics, jewellery, clothing, furniture, posters, publications and built environments are closely related to the works produced by artists. The difference lies in the utilitarian functions of these design works: we sit in them, wear them and drink out of them — functions which designers must take into account

This course can be studied over one or two years. It is a practical course where 70% of the assessment is from practical work. The Visual Design Course is comprised of fourteen modules:

### **Graphic Design**

Publications and Information Illustration and Cartooning Interactive and Multimedia

### **Product Design**

Packaging Furniture Industrial

Individual/Collaborative Design Project

### Wearable Design

Clothing and Image Jewellery and Accessories Textiles

### **Interior/Exterior Design**

Structures and Environments Stage Sets and Props Interiors



# **WORK STUDIES**

Course Advisor: Mrs S Gore

### **Course Description**

In Work Studies you will learn about the adult world of work, put together a portfolio, learn about preparing for a job interview etc.

This subject raises an awareness of issues such as:

- Developing work related skills
- 2. Functioning in the workplace
- 3. Political and social factors which affect our working lives
- NB Work experience is an integral part of this course.