

YEAR 10 - 2016 COURSE SELECTION HANDBOOK



ST ALBANS
SECONDARY COLLEGE



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SECONDARY COLLEGE

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YEAR 10 COURSES

1. In choosing subjects at Year 10 level you **must** always make sure that you keep your options open and take as wide a range of subjects as possible.

This is to ensure that you do not drop subjects which you may later need to have in order to take up a chosen career path.
2. Before selecting subjects make sure that you check particular requirements/pre-requisites for the Tertiary Courses or Careers you may be interested in. Your MIPS work with Careers Fast Track and your Careers and Course Selection assignment is an excellent source of information and ideas.
3. We suggest that you find out as much as you can about different courses and careers. Talk to Mr Kortuem the Careers Teacher, Year Level Coordinators, Subject Teachers and Key Learning Area Coordinators. Read "The Job Guide" available from the Careers Room.
4. Subjects will run depending upon the availability of teachers, facilities, class sizes and timetabling.

Ms McKenzie
Ms Annetts
Ms Dorigo
Ms McFarland
Mr Ryan

Middle School Coordination Team

CAREERS INTRODUCTION

There are 3 factors to be considered when deciding on subjects:

1. Do you have some ability in the type of subject?
2. Do you enjoy that field of study?
3. How does it relate to your career intentions?

You should begin now finding out as much information as possible about different careers. To find out more about careers:

1. **Talk to People** - A good way of finding out what jobs are most likely to appeal to you is by talking to as many people as possible about the work they do.
2. **Work Experience** - This can give you an insight into the world of work and an awareness of whether a particular job is right for you. Year 10 students do work experience the last two weeks of term two.
3. **Vocational Guidance** - There are people who can offer you specialised help in the careers area. Begin by visiting the Careers Room and talking to your Careers teacher at school.
4. **Check out the following web pages:**
 - My Future: www.myfuture.edu.au
 - Job Guide: www.jobguide.education.gov.au
 - VTAC Course Link (free service)

An interactive web-based program aimed to assist students in Years 10-12 and their parents to investigate course options based on arrange of criteria, including interests, studies undertaken and results.

www.vtac.edu.au

An Introduction to VCAL

The Victorian Certificate of Applied Learning (VCAL) is a 'hands-on' option for students in Years 11 and 12.

Like the VCE, the VCAL is a recognised senior secondary qualification. Unlike the VCE, which is widely used by students as a pathway to university, the VCAL focuses on 'hands-on' learning. Students who do the VCAL are more likely to be interested in going on to training at TAFE, doing an apprenticeship or getting a job after completing Year 12.

The VCAL's flexibility enables students to design a study program that suits their interests and learning needs. Students select accredited curriculum components from Vocational Education and Training (VET) qualifications and VCAL units. There are four compulsory strands in VCAL:

- Literacy and Numeracy Skills;
- Work Related Skills;
- Industry Specific Skills; and
- Personal Development Skills.

YEAR 10 UNITS OFFERED AT ST ALBANS SECONDARY COLLEGE

This is a full list of the Units offered and in which of the 9 Key Learning Areas they belong.

For more information on any of the units refer to the detailed descriptions that occur later in this booklet or contact the teacher named.

KLA	UNIT	Contact Teacher
Arts	Art Drama Music Multimedia Art and Design Visual Communication	Mr D'Aglas Ms Panteli Mr Orchard Mr D'Aglas
Commerce	Drive and Survive Law Managing a Business	Mr Fraser
English / English as an Additional Language (EAL)	Applied English - 2 semesters English - 2 semesters English as an Additional Language (EAL) - 2 semesters Extension English - 2 semesters Literacy Support / Literacy Support EAL - 2 semesters Literature Creative Writing - 1 Semester	Ms Adamou
Health and Physical Education	Exercise Science in Physical Education Mind, Body and Soul VET – Certificate III in Sport and Recreation - 2 semesters	Mr Beale
Humanities	People and Places Politics Rights and Freedoms World War II	Ms Pannu
Information Technology	Database Management Systems Introduction to Programming Robotics VET - Cert III in Information Technology Part 1 - 2 semesters VET - Cert III in Information Technology Part 2 - 2 semesters	Mr. Singh
LOTE	French - 2 semesters Italian - 2 semesters Japanese (2nd Language) - 2 semesters Vietnamese - 2 semesters	Ms Herr
Mathematics	Mathematics A - 2 semesters Mathematics B - 2 semesters Preparation Mathematics - 2 semesters	Mr McIntyre
Science	Chemistry Biology Psychology Physics	Ms Borle
Technology	Fashion Food and Technology Food for Thought – Advanced Cooking Woodwork	Ms Ouko Mr D'Aglas



MATHEMATICS PATHWAY RECOMMENDATION YEAR 10 IN 2016

Student Name: _____

Home Group: _____

I have discussed my Mathematics Pathway with my current Year 9 Mathematics Teacher (initials): _____

Student Signature: _____

Year 9 Mathematics Teacher:

I have discussed (student's name): _____ Year 9 Maths results with them.

In 2016, I recommend they study (please tick one):

- Mathematics A and Mathematics B
- Mathematics A
- Prep Mathematics
- General Mathematics Unit 1 and 2 and Specialist Mathematics Unit 1 and 2 (For students already in Accelerated Mathematics classes).

Teacher Name: _____

Teacher Signature: _____

If I do not wish to follow my Mathematics teacher's recommendations:

I have considered the recommendations given to me by my Mathematics Teacher and wish to act against these recommendations and study _____ in 2016.

I understand that I may be at risk of failing this subject and will not be guaranteed a place in an appropriate Mathematics class if I am not passing and wish to change subjects.

Student Signature: _____

Parent Signature: _____



COURSE PLANNING PAGE

Use this page to help plan the units you might do

Selection	Name of Unit (with code)	Reminders
1	(Put your choice of English units here)	You must choose 2 units of English OR You must choose 2 units of EAL
2		
3	(Put your choice of Mathematics units here)	You must choose 2 units of Mathematics These can be either Mathematics A or Preparation Mathematics
4		
5		In your remaining selections you must choose at least 1 unit from 4 different KLA areas. Note that units can be selected once only.
6		
7		
8		
9		
10		
11		
12		
13		Please provide 6 additional units you would be willing to do if any of the above are not available to you
14		
15		
16		
17		
18		

Intended Acceleration: Subjects

First choice:	
Second choice:	

Parent Signature: _____

ART

Overview

Art meets the needs of students who wish to investigate various forms of studio production. Students explore a range of media including Painting, Drawing, Printmaking, Computer software and Sculpture.

Contents / Skills

In Art, students learn to:

- Students explore media and creative techniques appropriate for the development of a range of artwork;
- Students investigate traditional and non-traditional use of media;
- Students apply research to create their own artworks;
- Students maintain a workbook which documents developmental work and research; and
- Students make a folio of artworks.

Links to Further Study

- VCE Studio Arts / VCE Visual Communication.

Selection Advice

This unit is designed for students with an interest in exploring art making or those wishing to explore creative expression, creative visualisation and creative thinking.

DRAMA

Overview

The study of Drama focuses on the creation and performance of characters and stories using non-naturalism. Students draw on a range of stimulus material and play-making techniques to develop and present devised work. Students also explore a range of performance styles and conventions, dramatic elements and stagecraft. They use performance and expressive skills to explore and develop role and character. They analyse the development of their own work and performances by other drama practitioners.

Contents / Skills

In Drama, students learn to:

- Develop an understanding of different performance styles and conventions;
- Develop and refine expressive and performance skills;
- Focus on the processes used to develop and create performance works;
- Develop leadership skills through group work and the production of ensemble performances;
- Devise and perform ensemble dramatic works;
- Analyse and evaluate a professional performance.

Links to Further Study

- VCE Drama.
- VCE Theatre Studies.

Selection Advice

This unit is available to all students. Students who enjoy the performing arts and want to develop their performance skills are encouraged to take this unit.

MUSIC

Overview

This unit focuses on developing skills in practical music and performance in solo and group contexts, studying performance and performing, and developing skills in aural comprehension and organisation of sound. Students will present a solo and a group performance, demonstrate prepared technical work and perform previously unseen music.

Contents / Skills

This study is designed to enable students to:

- Develop skills in practical music making and performance;
- Develop performance skills in solo and group settings;
- Develop skills in giving prepared and unprepared performance;
- Develop skills in aural perception and comprehension;
- Develop skills in the organisation of sound;
- Perform a program of selected works;
- Develop an understanding of aspects relevant to music performance and the performer; and
- Develop an understanding of interpretation in music performance.

Links to Further Study

- Certificate III in Music - Year 10 Music is designed to prepare students for entry to a VET - Certificate III in Music. This is a nationally recognised TAFE qualification that students complete whilst studying VCE.

Selection Advice

Students who enjoy the performing arts and want to develop their performance skills are encouraged to take this unit.

MULTIMEDIA ART and DESIGN

Overview

This subject is directed towards increasing a student's ability to understand, analyse and document their visual environment.

Through a thematic approach students manipulate and or animate digital images. Using a range of digital technologies and software such as Photoshop and Stop Motion, students explore production techniques and presentation styles.

Contents / Skills

Topics to be covered would include:

- Image and message analysis;
- The visual environment;
- Audience identification;
- Digital image manipulation; and
- Theme exploration.

Links to Further Study

- This subject offers pathways to studies in Art and Design or IT subjects in VCE.

VISUAL COMMUNICATION

Overview

Visual Communication is an area of study which equips students with the ability to communicate through a wide range of media. Students explore communication, environmental and industrial design. In this field of study students will learn about the various elements and principles of design and how to effectively incorporate them into their designs. Students will utilise various computer programs as well as technical drawing techniques used in industry.

Contents / Skills

Topics to be covered would include:

- Freehand, Instrumental and Computer Generated Designs;
- Drawing conventions;
- Concept development and the application of Elements and Principles of Design;
- Information Design;
- Technical Drawing and Product Design;
- Illustration.

Links to Further Study

- VCE Visual Communication and design Units 1 – 4.

DRIVE and SURVIVE

Overview

This course focuses on the legal, economic and social issues relating to motor vehicles. Students will investigate road laws, traffic safety issues, and requirements for getting a Learner's Permit and Licence. Students will also investigate the requirements for purchasing a car.

Contents / Skills

In Drive and Survive, students learn to:

- Analyse driver behaviour and causes of crashes;
- Identify and analyse strategies designed to promote road safety;
- Analyse consequences of road trauma and drink driving;
- Investigate the requirements in getting your Learner's Permit and Probationary Licence;
- Participate in practical driving sessions (depending on cost and level of demand);
- Investigate the different ways a motor vehicle can be purchased; and
- Research the running costs involved with the purchase of a motor vehicle.

Links to Further Study

- VCE Legal Studies.
- VCE Economics.
- VCE Accounting.
- VCAL.

Selection Advice

Students who are interested in gaining knowledge for their Learner's Permit, road safety issues and financial benefits and costs associated in buying a motor vehicle.

LAW

Overview

This subject looks at how the law impacts on people. Students will examine the role of law in society, key features of Australia's legal system at the state and federal levels, and factors causing changes to the law.

Contents / Skills

In Law, students learn to:

- Complete film reviews for case studies;
- Demonstrate an understanding of how laws are made and enforced;
- Examine key elements of criminal and civil law, including police investigative techniques;
- Analyse changes to the law;
- Observe how a court works by attending excursions to the Magistrates' Court and the Criminal Justice Museum;
- Learn their rights and responsibilities when dealing with the police; and
- Contract law for minors.

Links to Further Study

- VCE Legal Studies.
- VCE Politics.

Selection Advice

Students who are interested in a career in the legal system e.g. becoming a lawyer or police officer and are interested in how the law affects members of society, who want to develop their knowledge and awareness of the legal system, and who seek a better understanding of their legal rights are encouraged to select this unit.

MANAGING A BUSINESS

Overview

This subject examines the operation, structure and financial management of businesses. It will enable students to investigate what is required to run a successful business. Students will also study practical aspects of accounting and develop skills in calculating, recording and reporting financial events for a business.

These skills and knowledge will be used to set up and manage a school-based business.

Contents / Skills

In Managing a Business, students learn to:

- Identify factors relevant to starting a small business;
- Identify and analyse reasons for business success and failure;
- Analyse a range of marketing methods used to sell a product/service;
- Develop an accounting system;
- Record and report financial transactions into the appropriate journals and financial statements;
- Apply procedures for effective cash management control;
- Determining selling price and profit margins;
- Analyse various forms of Business ownership and Structure;
- Analyse the stock market, including attending an excursion to the Australian Stock Exchange;
- Determine business location; and
- Demonstrate an understanding of small business management by operating a school-based business.

Links to Further Study

- VCE Legal Studies.
- VCE Accounting.
- VCE Business Management.
- VET Small Business Practice.

Selection Advice

Students who are interested in owning and running their own small business would find this unit beneficial.

APPLIED ENGLISH

2 SEMESTERS

Overview

Participation in many aspects of Australian life depends on effective communication in Standard Australian English. The study of Applied English helps create confident communicators and informed citizens and helps young people to develop the literacy knowledge and skills needed for future training and the workplace.

Contents / Skills

In Applied English, students learn to:

- Comprehend what they read and view in written, digital, and cinematic texts aimed to entertain, inform and persuade audiences. Texts chosen for study in Applied English include everyday media texts and workplace texts;
- Become fluent writers who know how to edit their writing for clarity; and
- Use a range of software programs to communicate and create clear, effective texts.

Links to Further Study

- VCAL Literacy.

Selection Advice

This course does not link to VCE English or EAL and parents will be consulted about the implications of this choice.

ENGLISH

2 SEMESTERS

Overview

Participation in many aspects of Australian life depends on effective communication in Standard Australian English and English is invaluable globally. The study of English helps create confident communicators, imaginative thinkers and informed citizens and helps young people develop the knowledge and skills needed for education, training and the workplace.

Contents / Skills

In English, students learn to:

- Listen to, read, view, speak, write, create and reflect on spoken, written and multimodal texts;
- Appreciate, enjoy and use the English language to evoke feelings, convey information, form ideas, interact with others, entertain, persuade and argue; and
- Develop interest and skills in inquiring into various forms of texts, and literature.

Links to Further Study

- Year 10 English is an essential preparation for VCE English units 1-4, and Literature units 1-4.

Selection Advice

English is a compulsory core subject. All students must complete 2 units of English at Year 10.

ENGLISH AS AN ADDITIONAL LANGUAGE (EAL)

2 SEMESTERS

Overview

Participation in many aspects of Australian life depends on effective communication in Standard Australian English and English is invaluable globally. The study of EAL helps create confident communicators, imaginative thinkers and informed citizens and helps students from non English speaking backgrounds to develop the knowledge and skills needed for education, training and the workplace. EAL classes provide students with additional time and support and specialised teaching to address students' developing language proficiency.

Contents / Skills

In EAL, students learn to:

- Listen to, read, view, speak, write, create and reflect on spoken, written and multimodal texts;
- Appreciate, enjoy and use the English language to evoke feelings, convey information, form ideas, interact with others, entertain, persuade and argue; and
- Develop interest and skills in inquiring into various forms of texts, and literature.

Links to Further Study

- VCE English / VCE EAL.

Selection Advice

EAL classes are for students who speak a language other than English at home and who have been enrolled in an Australian school for less than five years.

EXTENSION ENGLISH

2 SEMESTERS

Overview

Extension English focuses on developing students' analytical, creative and critical thinking and communication skills. Through close study and wide reading, viewing and listening, students develop the ability to appreciate and evaluate the purpose, stylistic qualities and conventions of literary and non-literary texts and enjoy creating their own imaginative, interpretive and analytical responses.

Contents / Skills

Extension English students refine their skills by engaging critically and creatively with texts and they hone their oral communication skills through discussion, debate and argument, in a range of formal and informal situations. In addition to the content and skills of the English course, Extension English aims to develop students:

- Understanding of the use of the English language;
- Appreciation and creation of interpretive, persuasive and imaginative texts; and
- Engagement in critical analysis and reflection.

Links to Further Study

- Year 10 Extension English is effective preparation for VCE English units 1-4; and Literature units 1-4.

Selection Advice

Extension English is offered to students who achieve an exemplary result in Year 9 Extension English and it may be offered to other Year 9 students if their English teacher recommends them for the course. Students of Extension English need to be highly motivated to study at an advanced level and to take on an increased workload.

LITERACY SUPPORT / LITERACY SUPPORT EAL

2 SEMESTERS

Overview

The Literacy Support Program is designed to develop students' literacy and communication skills in order to help them meet the academic demands of secondary school students.

Contents / Skills

During highly structured lessons, students in the Literacy Support Program:

- Develop decoding and reading comprehension skills during independent and group reading sessions;
- Continue to build their vocabulary and practice proofreading and editing skills;
- Learn to write a variety of text types;
- Learn to identify, understand and analyse a variety of visual texts;
- Create meaningful visual texts of their own;
- Develop speaking and listening skills; and
- Learn how to give and receive feedback.

Selection Advice

Entry into the LSP subjects is by teacher recommendation.

CREATIVE WRITING

1 SEMESTER

Overview

The aim of the Creative Writing subject would be for students to be exposed to two different types of genres; narrative writing and memoir writing. They would have the opportunity to develop their writing and writing process skills. The purpose of the course is two-fold: to give students the opportunity to develop a polished piece of writing for publication submission and to offer an English class purely selected on interest.

Contents / Skills

In Creative Writing, students learn to:

- Develop an understanding of various writing genres;
- Read short narratives and deepen understanding of form and style;
- Develop writing of narratives, using organisation of ideas;
- Crafting entertaining beginnings – authors must understand the function of a story beginning – to grab the reader’s attention and introduce the reader to the story world.

Links to Further Study

- As a Year 10 English unit, it will allow students to further develop and consolidate their skills so that they are better prepared for their VCE examinations.

Selection Advice

This unit is offered as an additional optional English study for those students who enjoy reading and writing narratives.

LITERATURE

Overview

In Literature, students engage with a variety of texts for enjoyment. Literature will appeal to students who enjoy reading, watching films and studying English.

Contents / Skills

In Literature, students learn to:

- Interpret, create, evaluate, discuss and perform a wide range of literary texts. Texts include films, works of fiction, poetry and dramatics performances. These texts focus on issues of human experience and cultural significance, interpersonal relationships, and ethical and global dilemmas from a variety of perspectives.

Links to Further Study

- While Year 10 Literature is not a prerequisite for VCE Literature, it does provide students with an opportunity to focus on an area of interest and enjoyment. Students should note that they may study English Units 3 and 4 **or** Literature Units 3 and 4 to meet VCAA requirements. If they choose, students may study **both** English and Literature at VCE level.

Selection Advice

Students of Extension English should seriously consider the study of Literature, as should students who enjoy reading, writing, theatre and film.

EXERCISE SCIENCE IN PHYSICAL EDUCATION

Overview

This unit is aimed at exposing students to the many aspects of recreational and elite team sports. Students will not only learn how to participate in various sports, but also referee, coach and manage different teams. It will take students beyond just playing and give them greater knowledge of the game.

Contents / Skills

In Exercise Science in Physical Education, students will:

- Gain knowledge of various fitness tests and how their own personal performance compares to others;
- Learn how to umpire and coach various sports and learn how to improve physical and skill performance; and
- Organise a competition and game sense to improve their team strategy. These skills have a practical and theory component associated with them, and will be based around sports such as; Soccer, basketball, indoor hockey, volleyball, badminton, table tennis and tennis.

Links to Further Study

- VCE Physical Education or a career in the sports and fitness industry.

Selection Advice

This unit is suitable for any students who wish to continue their physical education through team sports.

Due to the nature of some of the activities there will be a cost to the students of approximately \$27.50. There is also a cost of \$20 for a required workbook.

MIND, BODY AND SOUL

Overview

The focus of this unit is to examine many facets of human health such as Mental health, Nutrition, Physical fitness and Alternative health therapies.

Learning these concepts and participating in physical activity will give students the knowledge to help manage their immediate and future lives, through exercise, relaxation and nutrition. The course is predominantly theory work with some practical components included.

Contents / Skills

In Mind, Body and Soul students will:

- Study units of work on Mental health, Health in Australia, Fitness training, Nutrition, Physical fitness and Alternative health therapies; and
- Gain life management skills through healthy exercise habits, healthy eating habits and stress management.

Links to Further Study

- VCE Health and Human Development, VCE Physical Education, and further studies within alternative therapy.

Selection Advice

This unit is suitable for any student interested in VCE Health and Human Development and VCE Physical Education.

It is suitable for students with an interest in Holistic health (mind and body).

Due to the nature of some of the activities there will be a cost to the students of approximately \$27.50. There is also a cost of \$20 for a required workbook.

VET - CERTIFICATE III IN SPORT and RECREATION

2 SEMESTERS

Course Aims

This program aims to provide specific skills and knowledge required for an assistant level employee at an aquatic centre or gymnasium / dry area fitness centre. The functions of a person with this qualification may include assistance with the conduct of recreation activities and event, facility maintenance and general workplace operations. This course has a strong focus on the practical aspects of the Recreation industry. The program is delivered within the school and students have the opportunity to utilise the facilities at the school.

Future Pathways

Certificate II in Community Recreation provides a pathway for students who wish to pursue a range of occupations in the sport and recreation industry, including:

- Admin in a recreation setting;
- Community recreation;
- Coaching; and
- Fitness Instruction and Personal training.

Course Outline

VCE VET UNITS 1 and 2

- Organise personal work priorities.
- Apply First Aid.
- Operate application software packages.
- Provide customer service.
- Respond to emergency situations.
- Follow OHS policies.
- Provide equipment for activities.
- Provide Fitness Orientation.
- Maintain Sport and Rec equipment for activities.

VCE VET UNITS 3 and 4

- Conduct basic warm up/cool down programs.
- Plan / conduct sport and recreation session.
- Facilitate groups.
- Analyse participation patterns.
- Provide public education of use of resources.
- Undertake risk analysis of activities.
- Provide fitness orientation.
- Instruct and monitor fitness programs.

NOTE: Only limited spaces available upon a written recommendation from Year 10 Coordinators and from Head of Department for Health and Human Development, Mr McFarland.

PEOPLE AND PLACES

Overview

This unit looks at Environmental change and management and Geographies of human wellbeing.

Contents / Skills

In People and Places, students learn about:

- Environmental worldviews and challenges to sustainability;
- An investigation of a specific type of environment and environmental change in Australia and one other country;
- Causes and consequences of the change and geographical concepts and methods to evaluate and select strategies to manage the change;
- Investigating global, national and local differences in human wellbeing between places;
- Causes of global differences;
- Spatial differences in wellbeing within and between countries; and
- Exploring programs designed to reduce the gap between differences in wellbeing looking at Australia, India as examples.

This unit will include at least one field trip.

Main Skills Developed

- Observation.
- Collecting and recording data.
- Fieldwork and research skills.

Links to Further Study

- VCE History.
- VCE Geography.
- VCE Political Studies.

Selection Advice

This unit can be taken separately or it can follow on from any other Humanities unit.

POLITICS

Overview

An understanding of national and international decision making processes is vital for everyone. Individuals, groups, organisations and governments make decisions with global impacts. As students understand power, decision making and the forces that shape national and global politics, they will become more informed citizens, voters and participants in their local, national and international communities.

Contents / Skills

In Politics, students learn about:

- Cold War conflicts;
- Global interconnections in the twentieth and twenty-first centuries;
- How social and cultural movements have developed;
- Australia's federal political system;
- How citizens influence government policy through participation in political parties, elections and membership of interest groups;
- How well democratic values are reflected in aspects of the Australian political system; and
- The role of global organisations in responding to international issues.

Main Skills Developed

- Research and analytical skills.
- Critical thinking.
- Essay writing.
- Ability to express opinions with clarity.
- Interpretation of issues and events.

Links to Further Study

- VCE International Politics.
- VCE Legal Studies.
- VCE History.

Selection Advice

If you take an interest in current affairs, national and international politics then this subject is for you. It compliments Hitler's World, Asian Studies, Great Events in Ancient History and Law very well.

RIGHTS AND FREEDOMS

Overview

The unit begins with an exploration of the origins and significance of the Universal Declaration of Human Rights, including Australia's involvement in the development of the declaration. There is a focus on the struggle of Aboriginal and Torres Strait Islander peoples for rights and freedoms before 1965, including the 1938 Day of Mourning and the Stolen Generation. Further exploration surrounds the US civil rights movement and its influence on Australia. Key events studied include the 1962 right to vote federally; 1967 Referendum; Reconciliation; Mabo Decision; Bringing Them Home Report (the Stolen Generations), the Apology. Students will gain an understanding of the methods used by civil rights activists to achieve change for Aboriginal and Torres Strait Islander peoples, and the role of one individual or group in the struggle. The unit concludes with a study of the continuing nature of efforts to secure civil rights and freedoms in Australia and through the world, such as the Declaration of the Rights of Indigenous Peoples (2007).

Contents / Skills

In Rights and Freedoms, students learn about:

- UN declaration of Universal Human Rights;
- Civil Rights movements globally;
- Civil Rights movements in Australia;
- Significant events in the struggle for Indigenous rights and freedoms;
- The stolen generations; and
- The continuing efforts to secure civil rights and freedoms.

Main Skills Developed

- Research skills.
- Source analysis (Primary and Secondary).
- Extended writing.
- Film analysis.
- Critical evaluation of evidence.
- Use of appropriate historical language and conventions.
- Empathy.

Links to Further Study

- VCE History.
- VCE Geography.
- VCE Global Politics.

Selection Advice

This unit can be taken separately or it can follow on from any other Humanities unit.

WORLD WAR II

Overview

This unit begins with an overview of the causes and course of World War II. Students examine significant events of World War II, including the Holocaust and use of the atomic bomb. There is a focus on the experiences of Australians during World War II (such as Prisoners of War (POWs), the Battle of Britain, Kokoda, and the Fall of Singapore). Further exploration surrounds the impact of World War II, with a particular emphasis on the Australian home front, including the changing roles of women and use of wartime government controls (conscription, manpower controls, rationing and censorship). The unit concludes with a discussion of the significance of World War II to Australia's international relationships in the twentieth century, with particular reference to the United Nations, Britain, the USA and Asia.

Contents / Skills

In World War II, students learn about:

- The causes of World War II;
- Significant Events of World War II;
- The Holocaust;
- Australian Experiences in World War II; and
- The lasting impact to World War II.

Main Skills Developed

- Research skills.
- Source analysis (Primary and Secondary).
- Extended writing.
- Film analysis.
- Critical evaluation of evidence.
- Use of appropriate historical language and conventions.
- Empathy.

Links to Further Study

- VCE History.
- VCE Geography.
- VCE Global Politics.

Selection Advice

This unit can be taken separately or it can follow on from any other Humanities unit.

DATABASE MANAGEMENT SYSTEMS

Overview

This unit provides students with an understanding of how data is stored, modified and accessed in both networked and stand-alone systems. Students will research existing databases and create their own using software that is readily available. Students will also work collaboratively to maintain databases that they have created.

Contents / Skills

Students will use the following Microsoft Office software:

- Microsoft Access;
- Dreamweaver.

Students will undertake hands-on activities to improve their skills in the use of the above software. Students will create databases using MSAccess and use Dreamweaver to create an interface to access and to add data to the database which may be stored on a local machine, an intranet or the internet.

Assessment Tasks

- Project - creating an on-line database system.
- Research - structure and usefulness of an existing database.
- On-line and written tests.

Links to Further Study

- Use of database management software is required for:
 - VCE Unit 2: Computing – Outcome 3.
 - VCE Unit 3: Informatics – Outcome 1.
- Software studied in this course is also used in several VET-IT units.

Selection Advice

Students wishing to study any IT course in years 11 and 12 will find this unit useful. Most non-IT courses at tertiary level involve at least some use of databases and an early understanding of this system will be useful.

INTRODUCTION TO PROGRAMMING

Overview

This unit introduces students to the world of programming. On completion of this unit students will have developed an understanding of the steps involved in writing computer programs.

Contents / Skills

Students will use the one of the following software

- Visual Basic.
- Java.
- Visual C++.

Students will undertake hands-on activities to develop programming concepts needed to enter the field of programming. Students will have the opportunity to learn about the steps involved in programming. Students will also be introduced to the application of programming to create computer games.

Links to Further Study

- Computing Units 1 and 2.
- Certificate III in Information Technology.
- Informatics Units 3 and 4.
- Software Developments Units 3 and 4.

Selection Advice

Students wishing to develop an understanding of programming languages should undertake this Information Technology unit. It is strongly recommended that students have basic computer usage skills

ROBOTICS

Overview

Are you creative and do you like to put your designs to work? This unit examines the use of robotic systems. You will use Robolab to learn basic programming skills.

This unit will include solving problems in programming. The application of computer programs and the use of mechanical and computer systems will be the main focus. Students will be expected to complete three major projects and may use their projects to compete in the Robosoccer competition.

Contents / Skills

In Robotics, students learn to:

- Prepare detailed designs and make products using the Lego 'Mindstorm Kits';
- Analyse the products effectiveness with reference to design criteria; and
- Build your own simple robots to meet prescribed challenges.

Links to Further Study

- VCE Technology.
- VCE Information Technology.

Selection Advice

This unit will provide a practical base for computer programming and has design applications outside of the school-based curriculum.

VET - CERTIFICATE III IN INFORMATION TECHNOLOGY – PART 1

2 SEMESTERS

Overview

This unit provides students with knowledge and skills to create websites using web authorising software, as well as developing their understanding of the use of programming languages within web pages. Students will also learn to insert multimedia in the web pages that they have created.

Contents / Skills

In Cert III in Information Technology, Part 1, students will:

- Select and analyse website structure development tools;
- Construct a website;
- Create web pages using mark up language;
- Format web pages to specification;
- Create tables using mark up language;
- Validate web pages in different browsers to test for compatibility;
- Evaluate a website;
- Use digital camera; and
- Insert images into web pages.

Links to Further Study

- This course provides a direct link to Certificate III in Information Technology that is studied in Years 11 and 12 and will assist students in obtaining a partial / full Certificate III in Information Technology. Parts of this course also provide a pathway to VCE Information Technology Units 1 and 2.

Selection Advice

Students interested in a career in the IT industry or those who have an interest in web design will find this course useful.

Students wishing to do Certificate III in IT at VCE level must complete Certificate III in Information Technology – Part 1 and 2 in Year 10.

For a full Certificate III in Information Technology, you must complete this course in Years 10, 11 and 12.

VET - CERTIFICATE III IN INFORMATION TECHNOLOGY – PART 2

2 SEMESTERS

Overview

This unit provides students with knowledge of backup procedures, establishing maintenance procedures for computer hardware. Students will acquire skills to modify and connect internal hardware components and install a network hardware component. Students will also learn to implement system software changes and handover the modified system to the client.

Contents / Skills

In Cert III in Information Technology - Part 2, students will:

- Solve organisational problems involving the use of technology;
- Evaluate new or upgraded technology;
- Establish safe work practices;
- Establish maintenance practices;
- Install internal hardware components;
- Install a piece of network hardware;
- Determine required system changes;
- Carry out system changes; and
- Hand over changed system to client.

Links to Further Study

- This course provides a direct link to Certificate III in Information Technology that is studied in Years 11 and 12 and will assist students in obtaining a partial / full Certificate III in Information Technology. Parts of this course also provide a pathway to Information Technology, Units 1 and 2.

Selection Advice

Students interested in a career in the IT industry or those who have an interest in the latest IT hardware and software will find this course useful.

Students wishing to do Certificate III in IT at VCE Level must complete Certificate III In Information Technology – Part 1 and Part 2 in Year 10.

FRENCH

2 SEMESTERS

Overview

French aims to develop further communication skills in written and spoken contexts.

Grammatical concepts are covered through dealing with real situations including relationships, celebrations, film, environment, health, hobbies and work.

Outcomes and assessment tasks for this course will evaluate the student's reading, writing, listening and speaking abilities.

Contents / Skills

Students will experience speaking in a conversational manner, including both formal and informal situations. Writing styles will include personal, imaginative, comparative and informative. Students will have the opportunity to learn practical and useful information that is authentic and contemporary.

Topics include:

- Childhood And Youth.
- The Environment.
- Staying Healthy.
- Art Movements In France.
- School And Employment.
- French Cinema.

Links to Further Study

- VCE French.
- It is compulsory that students complete both semesters of French at Year 10 in order to study VCE French.

Selection Advice

Students should have completed Year 9 French to attempt this course. Semester two cannot be taken without completing the first semester.

ITALIAN

2 SEMESTERS

Overview

Italian aims to develop further communication skills in written and spoken contexts.

Grammatical concepts are covered through dealing with real situations including relationships, dining, celebrations, film, music and hobbies and work.

Outcomes and assessment tasks for this course will evaluate the student's reading, writing, listening and speaking abilities.

Contents / Skills

Students will experience speaking in a conversational manner. Writing styles will include personal, imaginative and informative. Students will have the opportunity to learn practical and useful information that is authentic and contemporary.

Topics include:

- Childhood And Youth.
- The Environment.
- Staying Healthy.
- Art Movements In Italy.
- School And Employment.
- Italian Cinema.

Links to Further Study

- VCE Italian.
- It is compulsory that students complete both semesters of Italian at Year 10 in order to study VCE Italian.

Selection Advice

Students should have completed Year 9 Italian to attempt this course. Semester two cannot be taken without completing the first semester.

JAPANESE (2ND LANGUAGE)

2 SEMESTERS

Overview

Japanese aims to develop further communication skills in written and spoken contexts.

Grammatical concepts are covered through dealing with real situations including cultural celebrations, film, music and hobbies.

Outcomes and assessment tasks for this course will evaluate the student's reading, writing, listening and speaking abilities.

Contents / Skills

- Students will experience speaking in a conversational manner. There will be a continuation of the Japanese scripts including new Kanji. Writing styles will include personal and informative.
- Students will have the opportunity to learn practical and useful information that is authentic and contemporary.

Links to Further Study

- VCE Japanese.
- It is compulsory that students complete both semesters of Japanese at Year 10 in order to study VCE Japanese.

Selection Advice

Students should have completed Year 9 Japanese to attempt this course. Semester two cannot be taken without completing the first semester.

VIETNAMESE

2 SEMESTERS

Overview

Vietnamese aims to develop further communication skills in written and spoken contexts.

Grammatical concepts are learned through role-plays, interviews and debates. Outcomes and assessment tasks for this course will evaluate the student's reading, writing, listening and speaking abilities.

Contents / Skills

- Students will experience speaking in a conversational manner. Writing styles will include personal, imaginative and informative.
- Students will have the opportunity to study literature such as poetry, folklore and history. The internet and e-mail are also used in Vietnamese.

Links to Further Study

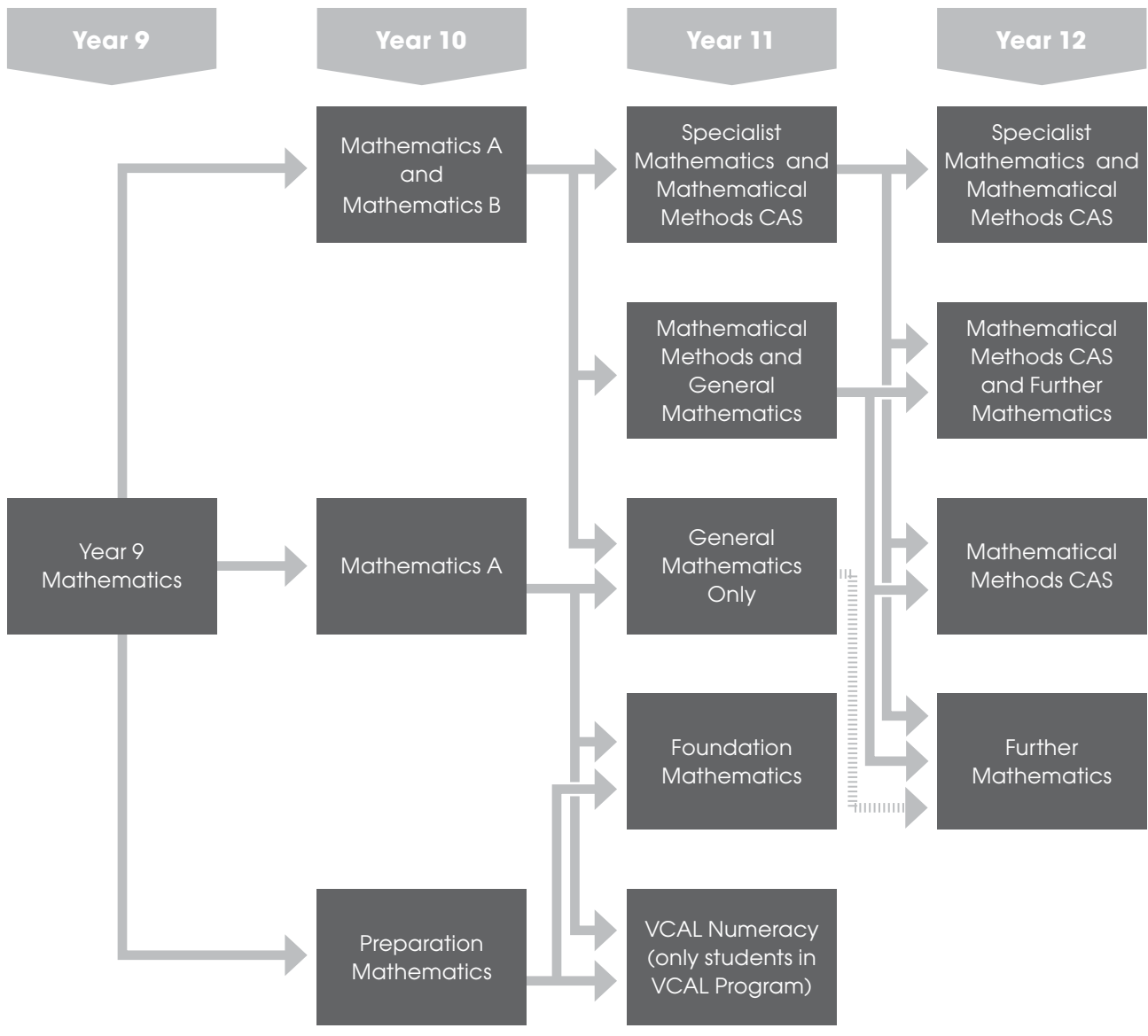
- VCE Vietnamese.
- It is compulsory that students complete both semesters of Vietnamese at Year 10 in order to study VCE Vietnamese.

Selection Advice

This unit is designed for students who are native Vietnamese speakers.

MATHEMATICS

MATHEMATICS PATHWAYS FROM YEAR 9 TO YEAR 12



Key

- Usual pathway based on satisfactory completion
- Possible pathway

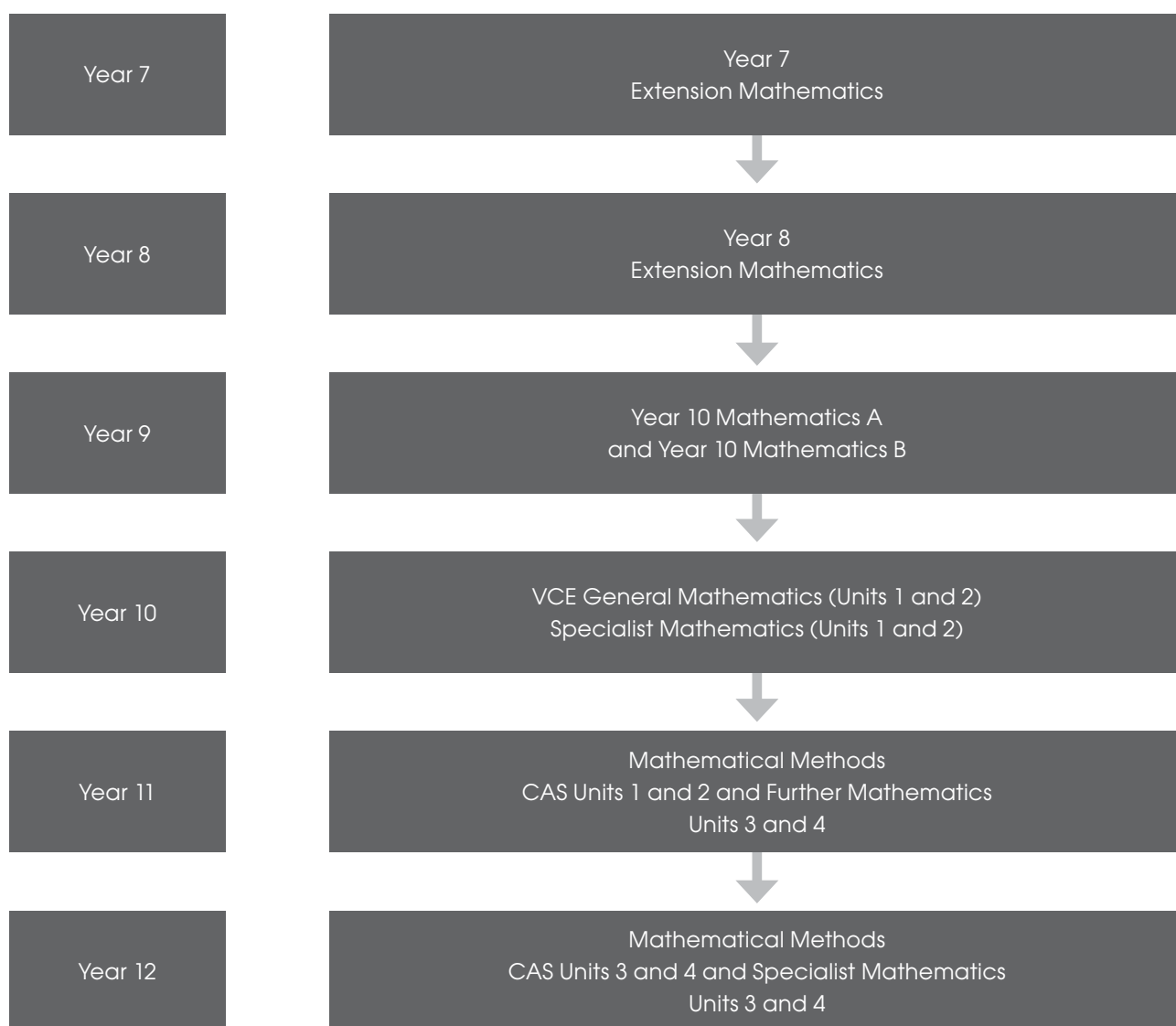
MATHEMATICS

EXTENSION MATHEMATICS

PATHWAY FROM YEAR 7 TO YEAR 12

During Year 7 and Year 8, students complete the Year 7-9 Mathematics Curriculum.

In Year 9, students complete Year 10 Mathematics B as their CORE Maths and Year 10 Mathematics A as one of their electives.

**Key**

Usual pathway based on satisfactory completion

OVERVIEW

Mathematics in Year 10 at St Albans Secondary College is a compulsory subject. All Year 10 students must choose either Preparation Mathematics or Mathematics A.

An additional elective of Mathematics B may also be chosen with Mathematics A.

Selection Advice

There are three options available to students:

COMPULSORY SUBJECTS:

1. **Mathematics A**

The majority of Year 10 students will choose this subject. It is a comprehensive course, which provides a thorough preparation for General Mathematics in Year 11, and for participation in work and society.

2. **Preparation Mathematics**

For students with **limited ability** in mathematics, this is an appropriate choice. Being well organised and committed to completing the required outcomes is essential for satisfactory completion of the units. Links to further study of mathematics are very restricted.

ELECTIVE SUBJECT:

3. **Mathematics B**

This is a whole year subject that can only be in addition to Mathematics A. Students who wish to continue to VCE mathematics are **strongly advised** to undertake this unit, along with Mathematics A.

MATHEMATICS A

2 SEMESTERS

Overview

Mathematics A has two main aims:

- To give students a general background in Mathematics which builds on the knowledge taught in Year 9; and
- To prepare students for further study in Mathematics at VCE level.

Contents / Skills

In Mathematics A, students study:

- Mensuration – Pythagoras' Theorem, area, surface area and volume;
- Algebra – expanding and factorising linear, and simple quadratic equations;
- Linear relationships – gradient, intercepts, lines of best fit, simultaneous equations, and inequations;
- Trigonometry – trigonometric ratios, calculations in two and three dimensions;
- Probability; and
- Statistics.

Eligibility

- Eligibility for **Mathematics A** requires a 'D' or above topic test average in both semesters at Year 9.

Links to Further Study

- Mathematics A provides preparation for the study of Unit 1 and 2 General Mathematics A.
- When taken with Mathematics B, it will provide a thorough preparation for any Unit 1 and 2 VCE mathematics subject, depending on the interests and aptitude of the individual student.

Selection Advice

The **majority** of Year 10 students will choose this subject. It is a comprehensive course, which provides a thorough preparation for General Mathematics in Year 11, and for participation in work and society.

MATHEMATICS B

2 SEMESTERS

Overview

Mathematics B must be taken in conjunction with Mathematics A. The topics studied build on, and extend the topics done in Mathematics A. There are also topics that specifically relate to the VCE Mathematics Study Design. Students will have the opportunity to use graphics calculators to develop their skills in the use of this technology, prior to studying VCE.

Contents / Skills

In Mathematics B, students study:

- Number - indices and index laws, standard form, surds, exponential relationships;
- Quadratic relationships – algebraic techniques for factorising and solving quadratic equations, graphing techniques;
- Geometry: circle theorems and construction; 3-dimensional drawing and the geometry of solids; triangle construction; transformations, the unit circle; and
- Matrices - definition, addition, subtraction, multiplication, inverses, application in equation solving and practical situations.

Eligibility

- Eligibility for inclusion in **both Mathematics A and Mathematics B** requires a 'C' or above topic test average in both semesters at Year 9.

Links to Further Study

- Students who complete this elective in conjunction with Mathematics A will have a thorough preparation for any Unit 1 and 2 VCE mathematics subject, depending on the interests and aptitude of individual students.

Selection Advice

Students who intend to study either Mathematical Methods CAS only, or Mathematical Methods CAS and General Mathematics B in year 11, must take this unit. Mathematics B will provide additional skills in algebra, graphing and geometry.

PREPARATION MATHEMATICS

2 SEMESTERS

Overview

If you find the study of mathematics to be very difficult and do not need a high level of Mathematics in VCE, then Preparation Mathematics may be a suitable alternative for you. Preparation Mathematics is a mathematics subject offered to year 10 students which is practically based and avoids some of the abstract mathematics subjects done in Mathematics A. It is ideal for those students intending to complete VCAL. It does not lead onto any year 12 mathematics topics, but will provide you with the opportunity to continue to develop your Mathematics skills.

Contents / Skills

- In Preparation Mathematics there is a strong emphasis on using mathematics in practical contexts relating to everyday life, personal work and study. Students are encouraged to use appropriate technology in all areas of their study. The areas of study for these units are Numeracy, Percentages, Cost of Living, Measurement, Building and Design, Running a Business. This subject is studied all year.

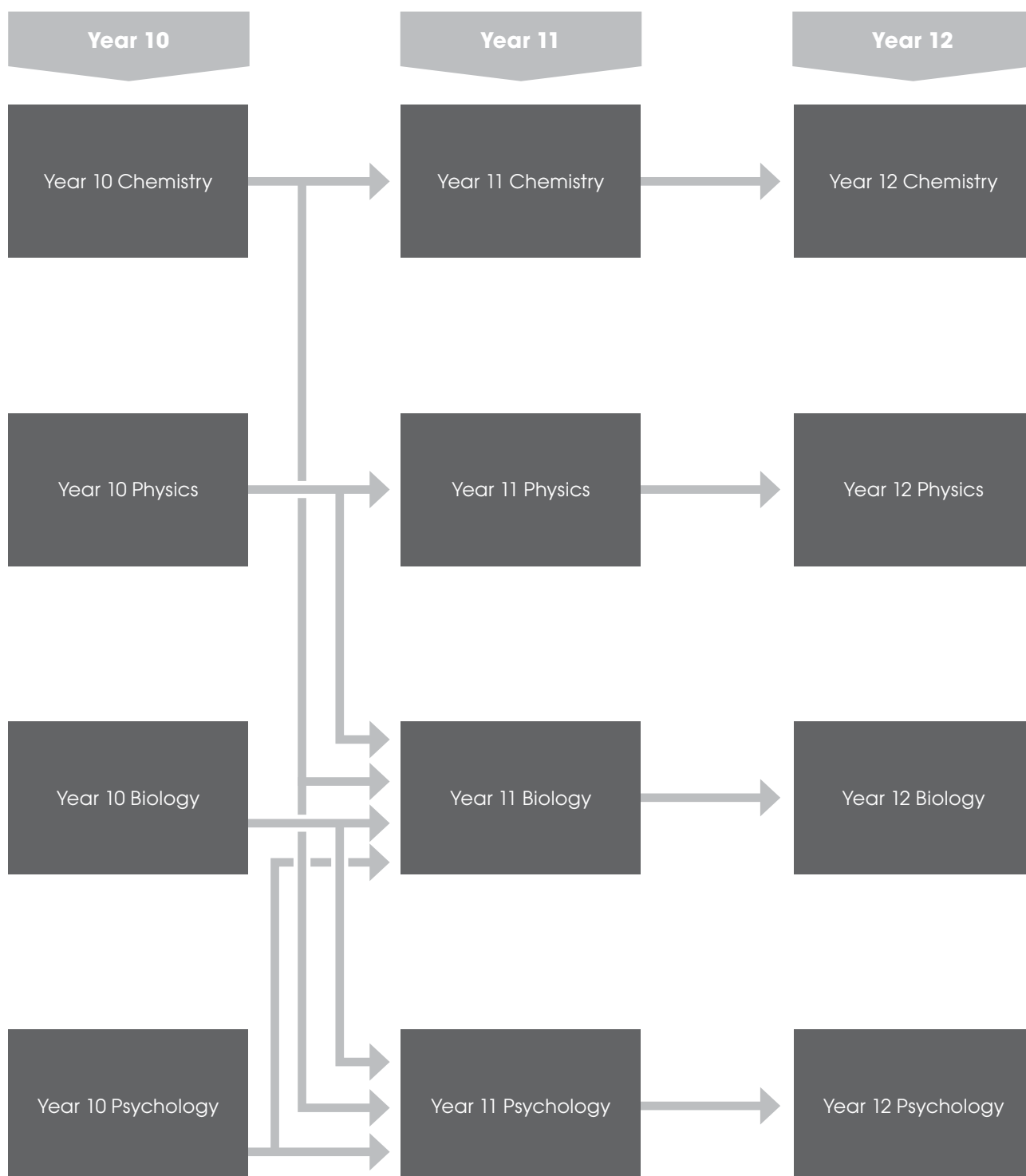
Links to Further Study

- This subject leads into VCAL Numeracy units. This subject may be suitable preparation for Foundation Mathematics in Unit 1 and 2 at Year 11 VCE.

Selection Advice

This subject is best suited to those students who find Mathematics difficult (particularly more abstract mathematics), and who do not need to keep their options open with regard to the further study of Mathematics.

SUGGESTED SCIENCE PATHWAYS



CHEMISTRY

Overview

Students explore and investigate chemicals and their reactions. Throughout the unit, there is a close link between theory and practical activities.

Contents / Skills

Explaining Reactions:

- Chemical bonds
- Chemical shorthand and
- Predicting a reaction

Metals and non metals:

- The periodic table
- Chemical families
- Extracting metals

Electrochemistry:

- Cells and batteries
- Electrolysis
- Corrosion of metals

Links to Further Study

- VCE Chemistry

Selection Advice

Students who enjoy science and want to develop their knowledge and practical skills are encouraged to take this unit. It provides a thorough preparation for VCE Chemistry.

BIOLOGY

Overview

Students explore and investigate aspects of the living world. Throughout the unit, there is a close inter-relationship between theory and practical activities.

Contents / Skills

In Biology, students study:

Inheritance

- Cell structure and function
- Chromosomes
- DNA
- Dominant and recessive (genes)

Species Survival

- Variation In organisms
- Natural selection
- Evolution
- Selecting genes
- The human body
- Health and disease
- Major body systems
- Homeostasis

Links to Further Study

- VCE Biology

Selection Advice

Students who enjoy science and want to develop their knowledge and practical skills are encouraged to take this unit. It provides a thorough preparation for VCE Biology.

PSYCHOLOGY

Overview

This unit is for all those students interested in exploring the amazing workings of the human brain. We will journey through the mind, exploring how the brain works and what makes each person the way they are. Types of mental disorders and addictions are areas we will explore to better understand who we are as humans.

Contents / Skills

In Psychology, students study:

An introduction To Psychology

- What is psychology?

Types Of Psychologists

- Brain Function
- Chemistry of the brain

Clinical Psychology

- Clinical assessment
- Psychological tests
- Personality and Intelligence
- Mental disorders – symptoms and treatment

Social Psychology

- Human relationships
- Body language

Links to Further Study

- VCE Biology
- VCE Psychology
- VCE Health and Human Development

Selection Advice

This unit will provide an excellent grounding for further studies in science in VCE. It will provide a very thorough preparation for VCE Psychology.

PHYSICS

Overview

Students explore and investigate aspects of the Physical World, Earth and Space. Throughout the unit, there is a close link between theory and practical activities.

Contents / Skills

In Psychology, students study:

Communication Technology

- Communicating
- Electronics
- Television and radio

Road Science

- Speed and acceleration
- Stopping
- Collisions

Our Energy Future

- Energy today
- Renewable energy
- Managing energy

Exploring the Universe

- The universe from earth
- Star types and star life cycles

Space Travel

- Getting into space
- Living in space

Links to Further Study

- VCE Physics

Selection Advice

Students who enjoy science and want to develop their knowledge and practical skills are encouraged to take this unit. It provides a thorough preparation for VCE Physics.

FASHION

Overview

This unit is designed to inspire creative fashion design. Each student participating in this program will remake or create garments suitable for runway modelling. Students will be expected to create garments to fit models of their choice. The models will be expected to parade the garments at the end of unit fashion parade.

Contents / Skills

In Fashion, students learn:

- Developmental folio skills;
- Drawing and design skills;
- Pattern making;
- Flat bed sewing techniques;
- Appliqué, Gluing and fastening techniques;
- Silk screening and fabric printing; and
- Embroidery and patchwork.

Links to Further Study

- VCE Studio Arts.
- VCE Visual Communication.
- VET Certificate III Clothing Production.

Selection Advice

This course is for self-motivated students who have an interest in creative design and garment construction. Students will need to negotiate their production task, carefully document technical skills and engage in explorations of fashion designers in order to successfully complete this unit of study.

FOOD AND TECHNOLOGY

Overview

This subject has both a theory and a practical component. The subject examines the design process in relation to food preparation. The subject also investigates the testing of food as a material and its properties and uses in different circumstances.

In this subject, students will:

- Analyse the appropriateness of using particular foods for specific purposes and study emerging trends in food production; and
- Investigate; prepare design plans; make products using a range of tools, equipment and machines; and evaluate products.

Contents / Skills

In Food and Technology, students will learn to:

- Use problem-solving techniques to investigate, design, produce, evaluate and modify in relation to practical products;
- Investigate and develop design briefs and refine skills in production and evaluation;
- Develop skills in the use of a range of tools, equipment and machines;
- Study the types and uses of materials and their manufacture into products;
- Develop skills in the use of a range of materials related to food production; and
- Study food additives, labelling and packaging, and food safety.

Links to Further Study

- VCE Food and Technology.

Selection Advice

Students who enjoy designing and learning about food should consider this unit.

FOOD FOR THOUGHT – ADVANCED COOKING

Overview

This unit is an extension unit for students who have successfully completed Year 9 or Year 10 units.

This unit has both theory and practical components which build essential VCE knowledge and skills. This unit is most suitable for students who have an interest in pursuing food studies. Students will further their knowledge of recipe design, food preparation and food presentation.

Contents / Skills

In Food for Thought - Advanced Cooking, students will learn:

- Advanced cooking skills;
- How to work to a design brief;
- Garnishing;
- Food styling;
- Food photography; and
- Cake decorating.

Links to Further Study

- VCE Food and Technology.

Selection Advice

This course is for students who plan to undertake VCE studies in Food and Technology.

The satisfactory completion of a Year 9 Food and Technology unit or Year 10 Food and Technology unit is a pre-requisite for selecting Food For Thought – Advanced Cooking.

Students on modified programs are encouraged to enrol in Food and Technology.

Only available in semester 2.

WOODWORK

Overview

This will enable students to explore different uses of wood and the systems and equipment associated with this. You will:

- Analyse the appropriateness of using particular materials and systems for specific purposes;
- Prepare detailed design proposals and make products using a range of equipment; and
- Analyse product effectiveness with reference to specified criteria.

Contents / Skills

- This unit focuses on emerging materials in the wood area, testing to Australian Standards and factors affecting product design. The practical work will cover production of a product using at least two different materials and at least three complex processes.
- Students will need to pay for or provide some of the materials used in producing their finished product. Students must complete a design folio, an investigation, the production work and an evaluation.

Links to Further Study

- VCE Design and Technology – Wood.

Selection Advice

This unit of study should be considered by students who enjoy designing and working with their hands.

NOTES



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