

# 2024 Year 10 Subject Selection Handbook



AL SIRAAT  
COLLEGE

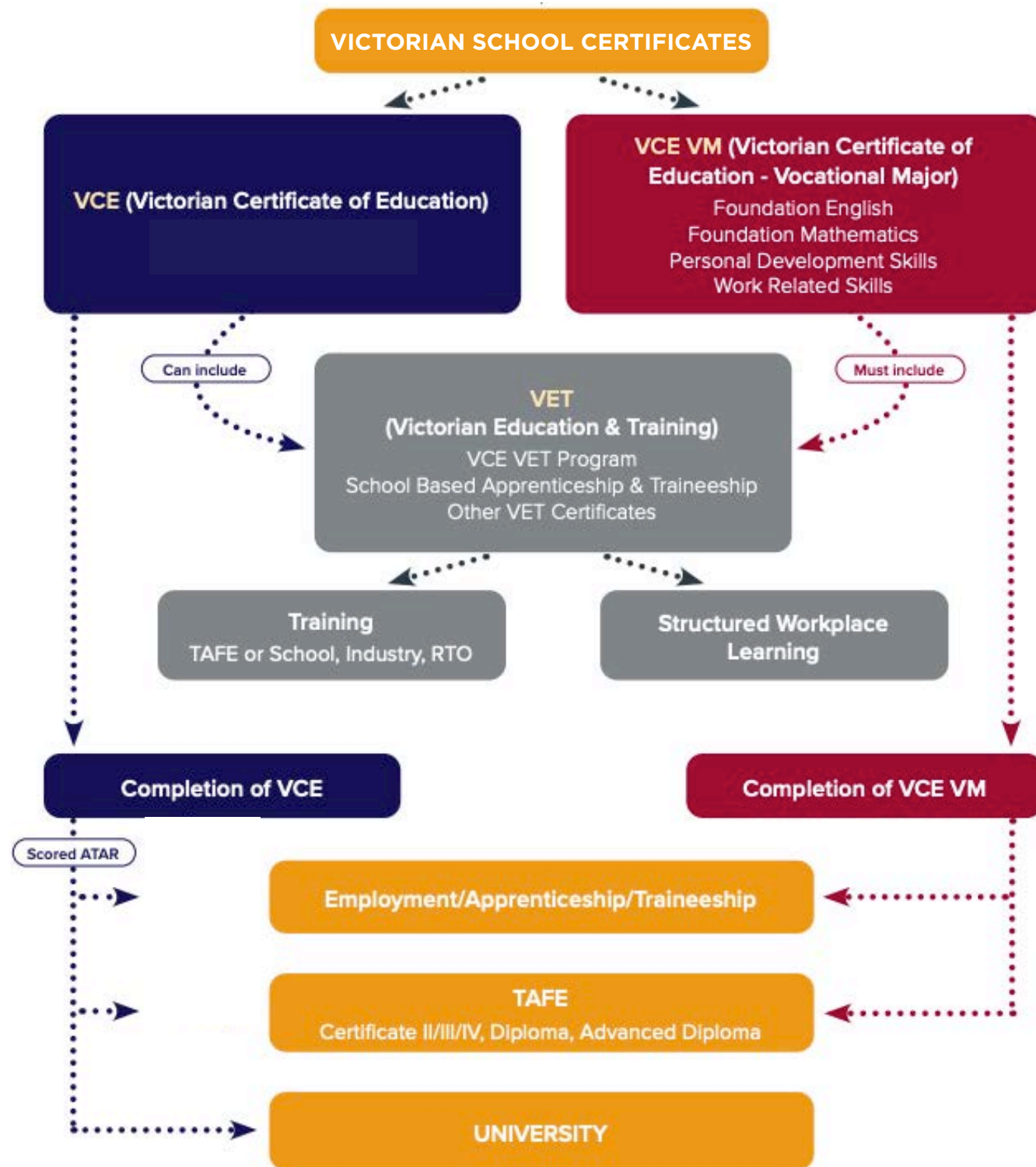
# Table of Contents

<b>PATHWAYS</b>	<b>3</b>	<b>VCE &amp; VCE VET SUBJECTS</b>	<b>25</b>
<b>SENIOR PATHWAYS</b>	<b>4</b>	<b>VCE BIOLOGY</b>	<b>26</b>
<b>UNDERSTANDING YOUR PATHWAYS</b>	<b>4</b>	<b>VCE SPORT &amp; RECREATION</b>	<b>27</b>
<b>SUBJECT SELECTION RATIONALE</b>	<b>5</b>	<b>VCE VET BUSINESS</b>	<b>28</b>
<b>YEAR 10 SUBJECT BLOCKS</b>	<b>7</b>	<b>VET COMMUNITY SERVICE</b>	<b>29</b>
<b>YR 10 &amp; VCE SUBJECT BLOCKS</b>	<b>8</b>	<b>VCE MATH PATHWAYS</b>	<b>30</b>
<b>YR 11 SUBJECT BLOCKS</b>	<b>9</b>	<b>VCE FOUNDATION MATHS PATHWAY</b>	<b>31</b>
<b>PLAN YOUR YEAR 10 SUBJECT SELECTION</b>	<b>10</b>	<b>VCE GENERAL MATHS PATHWAY</b>	<b>32</b>
<b>COMPULSORY SUBJECTS</b>	<b>11</b>	<b>VCE ADVANCED MATHS PATHWAY</b>	<b>33</b>
<b>QURAN &amp; ISLAMIC STUDIES</b>	<b>12</b>	<b>VCE PLANNING SHEETS</b>	<b>34</b>
<b>ENGLISH &amp; VCE ENGLISH</b>	<b>13</b>	<b>VCE 3-YEAR PLANNING SHEET</b>	<b>35</b>
<b>YEAR 10 MATHS &amp; FOUNDATION MATHS</b>	<b>14</b>	<b>PLANNING FOR THE FUTURE</b>	<b>36</b>
<b>HUMANITIES &amp; LIFE SKILLS</b>	<b>15</b>		
<b>SCIENCE</b>	<b>16</b>		
<b>ELECTIVES</b>	<b>17</b>		
<b>GRAPHIC DESIGN &amp; WOODWORK</b>	<b>18</b>		
<b>FOOD STUDIES &amp; ICT</b>	<b>19</b>		
<b>LEGAL STUDIES, SOCIAL DYNAMICS &amp; BUSINESS MANAGEMENT</b>	<b>20</b>		
<b>ADVANCED MATHEMATICS &amp; CHEMISTRY</b>	<b>21</b>		
<b>FORENSIC SCIENCE &amp; PHYSICS</b>	<b>22</b>		
<b>PSYCHOLOGY &amp; LAND MANAGEMENT</b>	<b>23</b>		
<b>SPORTS SCIENCE &amp; HEALTH</b>	<b>24</b>		

# PATHWAYS



# SENIOR PATHWAYS



<sup>1</sup> VCE VM Certificate is not currently offered at Al Siraat College.

# UNDERSTANDING YOUR PATHWAYS

## Victorian Curriculum of Education (VCE)

VCE The Victorian Certificate of Education (VCE) is a senior certificate of education within the Australian Qualifications Framework (AQF). It is designed to be completed over a minimum of two years and includes general education curriculum components (VCE studies) and programs from Vocational Education and Training (VET) qualifications.

## VCE Vocational Major (VM)<sup>1</sup>

The VCE Vocational Major (VM) is a vocational and applied learning program within the VCE designed to be completed over a minimum of two years. The VCE VM gives students greater choice and flexibility to pursue their strengths and interests and develop the skills and capabilities needed to succeed in further education, work and life. VCE VM prepares students to move into apprenticeships, traineeships, further education and training, university (via non-ATAR pathways) or directly into the workforce.

## Vocational Education & Training (VET)

Students may include Vocational Education and Training (VET) in their VCE. Students can undertake nationally recognised training through a VCAA approved VCE VET program as an apprenticeship or traineeship or any other VET qualification and may receive credit towards their VCE.

<sup>1</sup> VCE VM Certificate is not currently offered at Al Siraat College.



# SUBJECT SELECTION RATIONALE



## Overview

At Al Siraat College our Year 10 academic program enables students to make decisions about what they wish to study. Students can make a wide range of choices from the areas of Maths, Science, Humanities, Physical Education, Health, Art and Technology.

Each student selects their subjects to meet their individual learning needs. This allows the student the freedom to individually select their subjects based on their future pathways and in preparation for VCE at Year 11 and 12.

Each student will meet with the Career Counsellor, and based on their intentions for VCE and their interests, a study program is put into place so that the student is well prepared for entrance to VCE.

The following applies when students are making decisions about their Year 10 study programs: (please refer to subject selection sheet at end of booklet).

### 1. Compulsory Subjects for all Students

- English
- Year 10 Maths / Foundation Maths
- Science
- Humanities
- Quranic Studies or Arabic
- Islamic Studies
- English Skills for VCE & Life Skills
- Sport and Co-Curricular

*\* Year 10 Advanced Maths is compulsory for students who wish to undertake Year 11 & 12 Mathematical Methods. Students who do not do Year 10 Advanced Maths cannot do Year 11 & 12 Mathematical Methods. Arabic is subject to operational requirements.*

### 2. One VCE Subject in Block 3.

A choice of:

- Biology (by selection only based on performance in Year 9 Science test and exam results)
- VET Community Services
- VET Business
- VET Sport and Recreation

### 3. Year 10 Subject Selection Criteria:

- Students must choose one option from each block per semester (Blocks 8 and 9)
- Students are to select their subjects based on their strengths, interests and future career pathways
- A total of two subjects must be chosen per semester

### 4. Admission into Year 10 subjects

- Admission to any Subject at Year 10 is subject to the following:
- Student's performance in Year 9 for the equivalent subject area
- Meeting minimum entry requirements for each subject (please refer to subject descriptions in Section 4 and 5 of this Handbook)
- In addition to the minimum requirements, an academically competitive process is applied so that once a class has been fully subscribed, any student that misses out will need to discuss alternative pathways with the VCE coordinator.

# YEAR 10 SUBJECT BLOCKS



# YEAR 10 & VCE SUBJECT BLOCKS

BLOCK 3	BLOCK 8	BLOCK 9
UNIT 1 & 2 BIOLOGY	CHEMISTRY (SEM 1)	PSYCHOLOGY (SEM 1)
UNIT 1 & 2 VET BUSINESS	BUSINESS STUDIES (SEM 1)	FOOD STUDIES (SEM 1)
UNIT 1 & 2 VET SPORT AND RECREATION	SPORT SCIENCE (SEM 1)	GRAPHIC DESIGN (SEM 1)
UNIT 1 & 2 VET COMMUNITY SERVICES	LAND MANAGEMENT (SEM 1)	ADVANCED MATHS (SEM 1)
	LEGAL STUDIES (SEM 2)	WOODWORK (SEM 2)
	FORENSIC SCIENCE (SEM 2)	SOCIAL DYNAMICS (SEM 2)
	PHYSICS (SEM 2)	ICT (SEM 2)
	HEALTH (SEM 2)	ADVANCED MATHS (SEM 2)



# YEAR 11 SUBJECT BLOCKS

BLOCK 1	BLOCK 2	BLOCK 3	BLOCK 4	BLOCK 5	BLOCK 6	BLOCK 7	BLOCK 8	BLOCK 9
UNIT 1 & 2 FOUNDATION MATH	UNIT 1 & 2 ENGLISH	UNIT 1 & 2 BIOLOGY	UNIT 1 & 2 MATH METHODS	UNIT 1 & 2 PHYSICS	UNIT 3 & 4 BIOLOGY	UNIT 1 & 2 LEGAL STUDIES	QURAN	QURAN
UNIT 1 & 2 GENERAL MATH		UNIT 1 & 2 VET BUSINESS	UNIT 1 & 2 MATH HEALTH & HUMAN DEVELOPMENT	UNIT 1 & 2 SOCIOLOGY	UNIT 3 & 4 VET BUSINESS	UNIT 1 & 2 CHEMISTRY	ISLAMIC STUDIES	ISLAMIC STUDIES
		UNIT 1 & 2 VET SPORT AND RECREATION	UNIT 1 & 2 PSYCHOLOGY	UNIT 1 & 2 BUSINESS MANAGEMENT	UNIT 3 & 4 COMMUNITY SERVICES	UNIT 1 & 2 VISUAL COMMUNICATION DESIGN		
		UNIT 1 & 2 VET COMMUNITY SERVICES	UNIT 1 & 2 INFORMATION COMMUNICATION TECHNOLOGY	UNIT 1 & 2 FOOD STUDIES	UNIT 3 & 4 VET SPORT & RECREATION	UNIT 1 & 2 TEXT & TRADITIONS		
		EXTERNAL VET SUBJECTS	EXTERNAL VET SUBJECTS	UNIT 1 & 2 FOOD STUDIES		UNIT 1 & 2 FOUNDATION ENGLISH <sup>1</sup>		

<sup>1</sup> Unit 1 & 2 Foundation English is available for students seeking extra assistance in English. Enrolment in this course is determined individually, considering each student's needs and circumstances.

# PLAN YOUR YEAR 10 SUBJECT SELECTION

	SUBJECT SELECTION	RESERVE
BLOCK 8 (SEM 1)		
BLOCK 9 (SEM 1)		
BLOCK 8 (SEM 2)		
BLOCK 9 (SEM 2)		

# COMPULSORY SUBJECTS



# QURAN

## QURAN LEVEL DESCRIPTORS QURAN BEGINNERS

Students complete Levels 1 to 2 of reading in this elective. The skills they will be able to apply after the completion of this level include: recognition of letters in different forms; differentiation between the three vowels (Fathah, Dhammah and Kasrah); Sukoon, Qalqalah, Waqf (stopping); Shaddah and Ghunnah.

## QURAN INTERMEDIATE

Students complete Levels 3 to 4 of reading in this elective. The skills they will be able to apply after the completion of this level include: recognition of letters in different forms; differentiation between the three vowels (Fathah, Dhammah and Kasrah); Sukoon, Qalqalah, Waqf (stopping); Shaddah, Ghunnah; Tanween; identification and correct reading of Hamzatul Wasl, Sun and Moon letters, recognition of silent letters; identification and application of Madd of two; four and six Harakahs; and the rules relating to Noon and Meem Saakinah and Tanween; recognition of the different types of Raa and Laam. Students must have completed up to Level 2 of reading to qualify for this level.

## QURAN ADVANCED

This is the Naathirah stage of the Quran program. Students are able to recognise and apply most skills of Tajweed and will continue to build their knowledge of Tajweed as they progress in Naathirah. There is a heavy focus on fluency and confidence in this elective. Students must have completed up to Level 4 to qualify for this level.

### ASSESSMENTS:

SEMESTER EXAM: 100%

# ISLAMIC STUDIES

## ISLAMIC FAMILY LIFE - SEMESTER 1

In this subject, students learn about the process in which a person gets married according to Islamic Shari'ah. They learn about what one must do while still single, the process of finding a potential spouse and the correct method in performing the wedding and celebrations. They will also discuss contemporary issues around this topic, as well as clear any misconceptions and incorrect customs around weddings. Students will also learn the role of each spouse and their responsibilities. Through this course, students will be able to have a clear understanding of what to accept and consider for marriage, whilst also understanding the dealings with the opposite gender.

### ASSESSMENTS:

COURSEWORK: 60%

SEMESTER EXAM: 40%

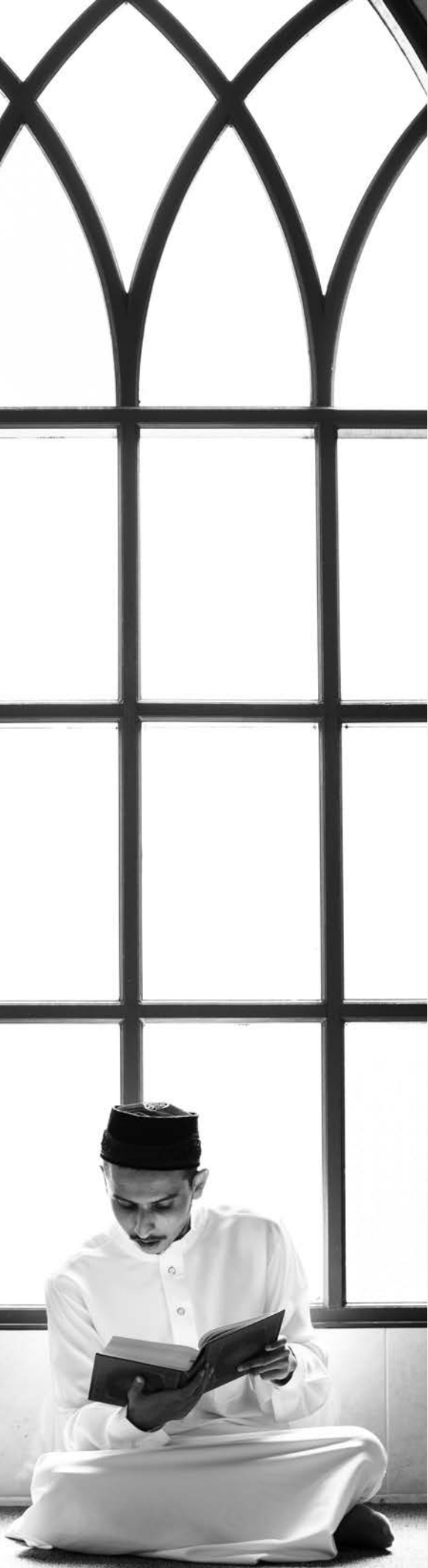
## CREED OF A MUSLIM - SEMESTER 2

In the previous year, students would have successfully completed learning of the common beliefs that every Muslim must have. In this subject, students will take an approach towards proving the existence of Allah, through logical and rational arguments, as well as being able to use science as a statement against scientific discoveries refuting Allah's existence. They also tackle the issue of evil and suffering being afflicted in the world. Following on from this, students briefly cover beliefs of a Muslim before looking at some of the Major sins, evil customs, innovations and also the worldly harms from sinning and benefits from obedience.

### ASSESSMENTS

COURSEWORK: 60%

SEMESTER EXAM: 40%





# ENGLISH

The study of English is compulsory for all students at Year 10. In English, emphasis is placed on the integration of reading, writing, speaking, listening, and critical thinking skills. English in Year 10 begins to align more closely with the VCE English Study Design.

By the end of Year 10, students will have been exposed to versions of the reading and viewing, speaking and listening and writing tasks that will be undertaken at VCE level.

Over the course of the year, students:

- Continue reading and viewing a wide variety of texts to improve their ability to respond appropriately
- Learn to analyse how the choice of language features and images to position the audience
- Create a range of texts to articulate complex ideas
- Make presentations and contribute actively to class and group discussions building on others' ideas, solving problems, justifying opinions and developing and expanding on arguments.

## **ASSESSMENTS:**

COURSEWORK: 60%

SEMESTER EXAM: 40%

## **FUTURE PATHWAYS**

- VCE English
- VCE Literature

# VCE ENGLISH SKILLS

This subject provides a solid grounding to students wishing to pursue their VCE studies. It will prepare students with the requisite skills in English as well as academic writing.

## **TOPICS COVERED**

- English Language Skills
- Academic Writing
- Responding to Texts
- Comparative Writing
- Language Analysis

## **ASSESSMENTS ASSIGNMENTS**

- Responding to a text
- Comparative Writing

## **SHORT TESTS**

- Skills
- Language Analysis

## **MINI-RESEARCH PROJECT**

- Academic Writing

## **ASSESSMENTS:**

COURSEWORK: 100%

## **FUTURE PATHWAYS**

- VCE English
- VCE Literature



# YEAR 10 MATHS

Year 10 Mathematics involves demonstrating understanding, fluency problem-solving ability and reasoning. Understanding includes applying the four operations to algebraic fractions, finding unknowns in formulas after substitution, making the connection between equations of relations and their graphs, comparing simple and compound interest in financial contexts and determining probabilities of two- and three-step experiments. Fluency includes factorising and expanding algebraic expressions, using a range of strategies to solve equations and using calculations to investigate the shape of data sets. Problem-solving includes calculating the surface area and volume of a diverse range of prisms to solve practical problems, finding unknown lengths and angles using applications of trigonometry, using algebraic and graphical techniques to find solutions to simultaneous equations and inequalities and investigating independence of events.

Reasoning includes formulating geometric proofs involving congruence and similarity, interpreting and evaluating media statements and interpreting and comparing data sets.

## ASSESSMENTS:

COURSEWORK: 60%

SEMESTER EXAM: 40%

Minimum entry requirements: 60% or above in Year 9 Maths

## FUTURE PATHWAYS

- VCE Maths Methods
- VCE General Maths

^Minimum requirements for VCE General Maths: 70% or above in Year 10 Maths Minimum requirements for VCE Maths Methods: 75% or above in Year 10 Maths & 80% or above Year 10 Advanced Maths

# FOUNDATION MATHS - BASIC YEAR 10 MATHS

In Year 10, Foundation Mathematics students study 'Space, shape and design', 'Patterns and number', 'Data', and 'Measurement'. In 'Space, shape and design' students cover the geometric properties of lines and curves, and shapes and objects, and their graphical and diagrammatic representations with attention to scale and drawing conventions used in domestic, commercial plans, maps and diagrams. In 'Patterns and number' students learn estimation, the use and application of different forms of numbers and calculations, and the representation of patterns and generalisations in number including formulas and other algebraic expressions in everyday contexts.

In 'Data' students learn collection, presentation and analysis of gathered and provided data from community, work, recreation and media contexts, including consideration of suitable forms of representation and summaries. In 'Measurement' students learn the use and application of the metric system and related measurement in a variety of domestic, societal, industrial and commercial contexts, including consideration of accuracy. Only students recommended by the Mathematics Faculty will be undertaking this course.

## ASSESSMENTS:

COURSEWORK: 50%

SEMESTER EXAM: 50%

## FUTURE PATHWAYS

- VCE Foundation Maths

# HUMANITIES

In Year 10 Humanities, students cover Geography and History. In Geography, the curriculum involves the study of 2 topics, Environmental change and management and Geographies of human wellbeing.

## **ENVIRONMENTAL CHANGE AND MANAGEMENT**

focuses on the environmental functions that support all life, the major challenges to their sustainability, and the environmental world views that influence how people perceive and respond to these challenges. Students examine the causes and consequences of a change within the context of a specific environment and the strategies to manage the change. Students will draw studies from within Australia, and other countries.

## **GEOGRAPHIES OF HUMAN WELLBEING**

focuses on global, national and local differences in human wellbeing between places, the different measures of human wellbeing, and the causes of global differences in measurements between countries.

Students consider the spatial differences in wellbeing within and between countries, and programs designed to reduce the gap between differences in wellbeing. Students will draw studies from within Australia, India and another country in Asia or the Pacific.

In History, the curriculum involves the study of 2 topics, World War II and Building Modern Australia. An overview of the study of the modern world and Australia requires students to develop an understanding of the context and chronology of the period, and the broad patterns of historical continuity and change from 1918, such as significant events and ideas during the inter-war years between World War I and World War II, including the Great Depression, and developments post World War II, including Cold War international relations. It also involves understanding related historical themes of the post-World War II world and how they relate to Australia, such as the major rights and freedom movements globally, and the achievement of independence by former colonies, both of which contributed to Australia's migrant experience.

## **ASSESSMENTS:**

COURSEWORK: 60%  
SEMESTER EXAM: 40%

## **FUTURE PATHWAYS**

- VCE Geography
- VCE History
- VCE Sociology

# LIFE SKILLS

In this subject students will acquire the skill set required to enter the work force. They will be guided through the entire process of how to find a job as a student or for the future. This subject will focus on the requirements to apply for a job, understand the pay scale, develop a resume, interview skills, applying for a tax file number and understanding their rights and responsibilities in the work force.

- TOPICS Where do I look for jobs?
  - How do I understand the requirements of an advertised job?
  - Preparing a resume
  - Preparing a cover letter
  - Interview skills
  - Applying for a Tax File Number
  - How much will I get paid?
  - What is gross and net income?
  - What are my employer's rights?
  - What are my rights as an employee?
  - What if I need to resign?
- 
- ASSESSMENTS:
  - COURSEWORK: 100%



# SCIENCE

In this unit, students will learn about the different types of science such as microbiology, chemical analysis and the universe and describe the supporting evidence for the big bang theory. In microbiology, students will learn about structure and function of microorganism and how do they become pathogen to human body and method of controlling disease. In chemistry, students will analysis the samples and find out the percentage of impurities in samples by using titrations method. Students explain the processes through which scientific knowledge is validated and examine the relationship between science, technology, and engineering. They analyse key factors that influence interactions between science and society. Students will acquire knowledge of laboratory equipment and skills needed to plan and conduct laboratory work, collect, present and process data, use a range of scientific equipment and prepare solutions and samples for laboratory testing. Students also develop an understanding of safety and safe practices in the science lab.

## **ASSESSMENTS:**

COURSE WORK: 60%

SEMESTER EXAM: 40%

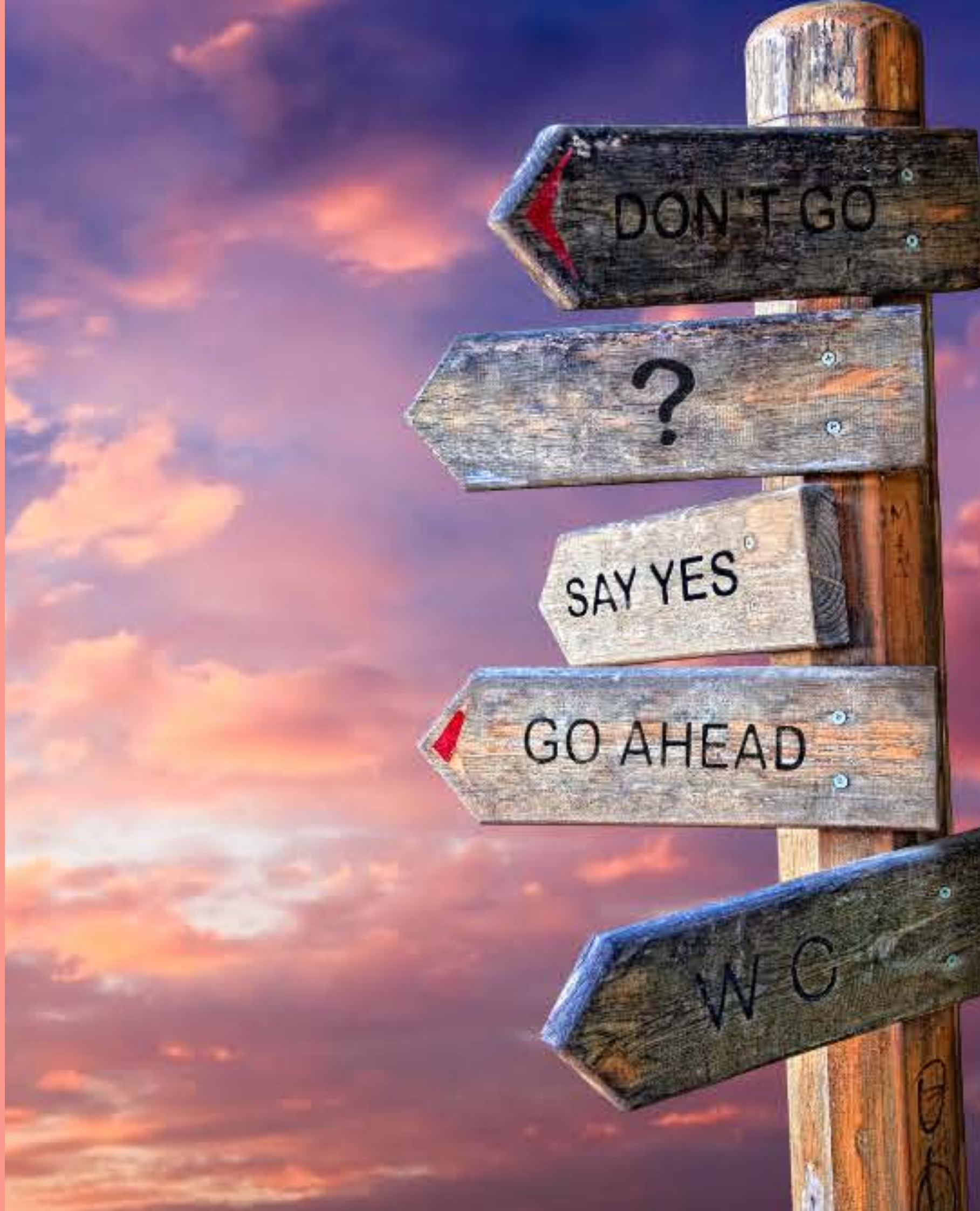
## **FUTURE PATHWAYS**


Studying Science provides a good introduction for:

- VCE Biology
- VCE Physics
- VCE Chemistry and
- VCE Psychology



# ELECTIVES



A vertical image on the left side of the page showing architectural blueprints, a pen, and a ruler. The blueprints contain various lines, dimensions, and labels like 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z'.

# GRAPHIC DESIGN

Did a billboard poster just capture your attention today? Are you keen to learn the tips and tricks to turn someone's attention visually? Digital and graphic design is an elective that takes you through understanding visual behaviour in humans and ways to manipulate them. You will learn how to create visual communications such as posters, brochures and website using software that are used in the industry today. If you are keen in the field of advertising, communication design and architecture then this elective is perfect for you. You will be exposed to opportunities to work with real clients and industry briefs allowing you to develop a working portfolio in the future. Hone your analytics and visual skills by taking up this elective!

## **ASSESSMENTS:**

COURSEWORK 100%

## **FUTURE PATHWAYS**

- VCE Visual Communications and Design (VCD)

# WOODWORK

A vertical image on the right side of the page showing a pile of wood shavings, likely from a lathe or planer, with a warm, golden-brown color palette.

Our Woodwork programme is all about helping students learn the basics and beyond of working with wood. The course is designed to get students ready for many woodworking roles, whether that's making furniture, simple repairs, or other craft projects. We believe in learning by doing, so students will often find themselves hands-on with tools, learning about different types of wood, and completing real projects.

Students will pick up practical skills that many woodworkers use every day. They'll get to know the common tools, techniques, and best practices of the trade. Plus, we make sure our lessons match what the woodworking world really needs, so students are well-prepared for future projects or jobs.

This Woodwork course is a great starting point for anyone interested in the craft, and it also offers a peek into more specialised areas of woodworking.

## **ASSESSMENTS:**

COURSEWORK: 100%

## **FUTURE PATHWAYS**



# FOOD STUDIES

If you are the person who wants to explore food, and extend your knowledge and skills through informed and confident food selection, then this course is for you. You will explore food from a wide range of perspectives. Eating patterns, food production and social functions and roles of food. You will critically evaluate the information, messages from marketing avenues and the plethora of new and evolving trends.

Practical activities are integral to Food Studies and includes cooking, demonstrations, creating and responding to design briefs, dietary analysis, food sampling and sensory analysis (including taste testing), product analysis and scientific experiments.

## ASSESSMENTS:

COURSEWORK: 60%

SEMESTER EXAM: 40%

## FUTURE PATHWAYS

- VCE Food Studies

# INFORMATION COMMUNICATION TECHNOLOGY

Information, Digital Media and Technology, refers to a specialised educational framework that focuses on imparting practical skills and knowledge in the field of Information Technology (IT). This program is designed to prepare individuals for careers in various IT domains such as software development, network administration, cybersecurity, and technical support. VET IT emphasises hands-on learning experiences, allowing students to gain proficiency in using IT tools, troubleshooting systems, and working on real-world projects.

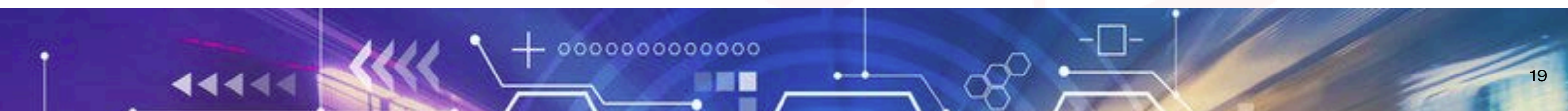
Students will develop a range of IT skills that are sought after by most IT service providers, including some of the most common digital technologies, applications and practices used across the industry today. The curriculum often aligns with industry standards, ensuring that graduates are well-equipped to meet the demands of the ever-evolving IT sector.

## ASSESSMENTS:

COURSEWORK: 100%

## FUTURE PATHWAYS

- VCE VET Information Technology



# LEGAL STUDIES

In Legal Studies, students will study the legal system in Australia. This unit examines the processes of law-making, dispute resolution and the administration of justice in Australia. Students develop an understanding of the impact of the legal system on the lives of citizens, and the implications of legal decisions and outcomes on Australian society. The subject allows students to become involved in decision-making within the legal system. It encourages civic engagement and helps students to become more informed and active citizens. This unit will develop skills useful in VCE Legal Studies.

## ASSESSMENTS:

COURSEWORK: 60%  
SEMESTER EXAMS: 40%

## FUTURE PATHWAYS

- VCE Legal Studies



# SOCIAL DYNAMICS

This course delves deeply into the intricacies of societal structures and their dynamics. Students are immersed in the world of sociology, cultivating their 'sociological imagination'. This perspective allows them to critically interpret social phenomena. Emphasis is placed on understanding the societal categories and labels we instinctively place on individuals, particularly exploring what drives certain members of society towards deviant and anti-social behaviours. Rather than solely relying on psychological explanations, students assess the broader social forces that contribute to criminal actions. A significant portion of the course is dedicated to understanding the criminal justice system in Australia, including its foundational principles and operational procedures. Students gain insights into how the system classifies criminal acts, enforces laws, and dispenses justice through its courts.

## ASSESSMENTS:

COURSEWORK: 60%  
SEMESTER EXAMS: 40%

## FUTURE PATHWAYS

- VCE Sociology



# BUSINESS MANAGEMENT

The first topic area of this subject focuses on planning and marketing of a small business within the school community. Students will cover relevant theory to assist them in planning their own small business. Students will work in teams to come up with a good idea, conduct market research, plan, advertise, organise and eventually run their business. They will then evaluate and prepare financial reports assessing the success of their venture. This topic lends itself to our budding entrepreneurs and provides them with a practical application. The second topic area is earning an Income. In this topic, students will address a number of areas including:

- How do you earn an income?
- What factors determine your income and your employability?
- How can training influence income? How much tax should you pay? What is superannuation?
- What is retirement?

Students will look at various aspects of financial literacy from budgeting right through to the circular flow of money throughout the economy. This unit will develop skills useful in VCE Business Management, VCE Economics and VCE Accounting.

## ASSESSMENTS:

COURSEWORK: 60%  
SEMESTER EXAM: 40%

## FUTURE PATHWAYS

- VCE Business Management,
- VCE Economics
- VCE Accounting

# ADVANCED MATHEMATICS

In Year 10 Advanced Mathematics, the course focuses on strengthening strong mathematical thinking skills which are suitable for VCE Specialist Mathematics and Mathematical Methods. It is designed to cover aspects of Year 10 Mathematics and Year 11 Mathematical Methods. Only students with an 'A' grade in both Year 9 Mathematics, Year 9 Extension Mathematics as well as the recommendation of their Year 9 Mathematics teachers will be considered. The course content will cover such topics as:

- solving exponential and logarithmic equations
- graphing parabolas
- circles, hyperbolas and exponentials by applying transformations
- solving simple trigonometric equations.

Students will also study statistics, probability, coordinate geometry; sketching linear graphs, simultaneous equations and inequalities.

*Minimum entry requirements: 75% or above in Year 9 Maths*

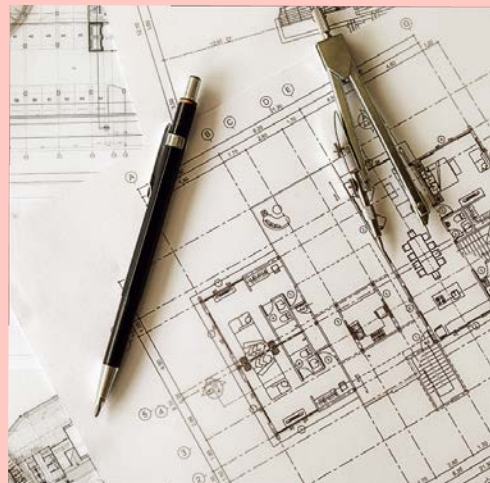
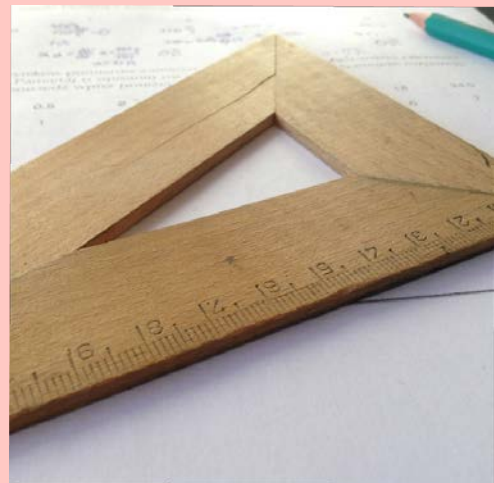
## ASSESSMENTS:

COURSEWORK: 60%

SEMESTER EXAM: 40%

## FUTURE PATHWAYS

- VCE Maths Methods



# CHEMISTRY

Chemistry explores and explains the composition and behaviour of matter and the chemical processes that occur on Earth and beyond. Chemical models and theories are used to describe and explain known chemical reactions and processes. The course is based on hands-on learning. The subject will provide a foundation in Chemistry knowledge, understanding and skills for those students who wish to do VCE Chemistry in year 11.

## TOPICS

1. Atomic Theory
  - Structure of the atom
  - Atomic and Mass Number
  - Isotopes and calculating Relative Atomic Mass
  - Interpreting Mass Spectrums
  - Electron configurations
  - Types of chemical compounds
  - Writing and naming of ionic compounds
  - Draw formation of ionic compounds
  - Draw formation of covalent compounds
2. Chemical Reactions
  - Types of chemical reactions
  - States of reactants and products
  - Chemical equations
  - Balancing Chemical Equations
  - Law of conservation of mass
  - Rate of chemical reaction
  - Solubility rules and precipitation reactions
  - Predicting reactants and products of an equation

\* Minimum entry requirements: 75% or above in Year 9 Science test and exam results

## ASSESSMENTS:

COURSEWORK: 60%

SEMESTER EXAM: 40%

## FUTURE PATHWAYS

- VCE Chemistry



# FORENSIC SCIENCE

In this unit, Students will learn about the different types of science such as Genetics and Physics concepts that help to solve crimes. Areas they will learn about include fingerprinting, blood types, DNA profiling, hairs and fibres, eyewitness observations, physical evidence, and handwriting analysis. When considering car crashes, an understanding of forces and movement is necessary (including Newton's laws of motion). Students will analysis the DNA (Deoxy ribo Nucleic Acid) , its structure and function in the body and its role in determining inherited characteristics. Students will work in teams to experiment with practical forensic techniques.

## ASSESSMENT:

Assessment tasks are drawn from tasks such as topic tests, practical reports, visual representations, research tasks and end of semester exam.

COURSE WORK: 60%  
SEMESTER EXAM: 40%

## FUTURE PATHWAYS

- VCE Biology
- VCE Physics
- VCE Psychology

# PHYSICS

Physics is studied in order to understand the physical world around us. We attempt to develop in the students an enquiring and logical mind. Discussion in the classroom is strongly encouraged. The course is based on hands-on learning such as motion, electricity and magnetism. The subject will provide a foundation in physics knowledge, understanding and skills for those students who wish to do VCE physics in year 11.

The course also aims to improve students' mathematical skills in order to achieve maximum comprehension in physics

## ASSESSMENTS:

COURSEWORK: 60%  
SEMESTER EXAM: 40%

## FUTURE PATHWAYS

- VCE Physics

\*Minimum entry - 65% or above in Year 9 Science and Maths Tests and Exams

# PSYCHOLOGY

What is psychology? Want to know what Psychology is really about?

Students will be given an introduction to what psychology is and the career opportunities.

Students will be given the opportunity to develop, use and demonstrate key science skills when undertaking an investigation and when evaluating the research of others.

Students will be conducting an experiment and applying key science skills to their practical investigation. Topics students will explore includes tour of the brain, psychopathology, sleep and social influences.

## **ASSESSMENTS:**

COURSEWORK: 60%

SEMESTER EXAM: 40%

## **FUTURE PATHWAYS**

- VCE Psychology

# LAND MANAGEMENT

The Year 10 Land Management course is designed to introduce students to the concepts of understanding, protecting, and managing the natural environment, including plants, animals, and the resources that exist within it. Students learn about sustainable use of land, and water management through a combination of theoretical knowledge and practical application. The course aims to develop skills that are crucial for effective planning, designing and management in various area.

Course contents:

- Introduction to Land Management
- Soil Science
- Water management
- Ecosystem services
- Agriculture practices and sustainability
- Climate change and land management
- Ethical and Culture Consideration
- Fieldwork and practical application

## **ASSESSMENTS:**

COURSEWORK 70%

SEMESTER EXAM 30%

## **FUTURE PATHWAYS**

- Agriculture, Horticulture, Animal Husbandry (Dairy farm)
- VCE Environmental Science

# SPORTS SCIENCE

The Sport Science program aims to prepare students for unit one and two VCE Physical Education. Covering topics including societal barriers to movement, this unit identifies issues in different communities and socioeconomic backgrounds and how they can be overcome to improve health and fitness outcomes.

Students will also investigate skeletal anatomy and functional muscle anatomy, learning about how the human body works and interrelates its multiple components to create human movement. The cardiorespiratory system and the impact/benefits of exercise are also investigated with students being given the opportunity to learn more about this study area through a practical context. Students undertaking this subject are encouraged to keep or purchase a school sports uniform for practical activities.

## **ASSESSMENTS:**

COURSEWORK: 60%

SEMESTER EXAM: 40%

## **FUTURE PATHWAYS**

- VCE Physical Education
- VCE VET Sport and Recreation

# HEALTH

The Year 10 curriculum supports students to refine and apply strategies for maintaining a positive outlook and evaluating behavioural expectations in different leisure, social, movement and online situations. Students learn to critically analyse and apply health and physical activity information to devise and implement personalised plans for maintaining healthy and active habits. They also experience different roles that contribute to successful participation in physical activity, and propose strategies to support the development of preventive health practices that build and optimise community health and wellbeing.

## **ASSESSMENTS:**

COURSEWORK: 60%

SEMESTER EXAM: 40%

## **FUTURE PATHWAYS**

- VCE Health and Human Development





# VCE & VCE VET SUBJECTS



# VCE BIOLOGY

## UNIT 1 & 2

VCE Biology enables students to investigate the processes involved in sustaining life at cellular, system, species and ecosystem levels. In undertaking this study, students examine how life has evolved over time and understand that in the dynamic and interconnected system of life all change has a consequence that may affect an individual, a species or the collective biodiversity of Earth.

In VCE Biology students develop their inquiry, analytical and communication skills. They apply critical and creative thinking to analyse contemporary biology related issues, and communicate their views from an informed position.

### UNIT 1

In this unit students explain what is needed by an organism to stay alive. They are introduced to some of the challenges for organisms in sustaining life.

### UNIT 2

In this unit students focus on asexual and sexual cell reproduction and the transmission of biological information from generation to generation. The role of stem cells in the differentiation, growth, repair and replacement of cells in humans is examined, and their potential use in medical therapies is considered.

### ASSESSMENT

SCHOOL ASSESSED COURSEWORK: 50%

EXAMINATION: 50%

*\*Minimum entry - 75% or above in Year 9 Science Tests and Exams*

## UNIT 3 & 4

In undertaking Units 3 and 4, students explore the importance of the plasma membrane and its permeability to specific solutes. They study nucleic acids and proteins as key molecules in cellular processes and examine the nature of biochemical pathways. At this molecular level students study the human immune system and how it provides immunity to a specific antigen.

Students also consider the continual change and challenges to which life on Earth has been subjected. They investigate the relatedness between species and the impact of various change events on a population's gene pool, including technological developments. Students examine the human fossil record and the interrelationships between human biological and cultural evolution.

### UNIT 3

Students will study plasma membranes, nucleic acids and proteins, gene structure and regulation, structure and regulation of biochemical pathways, photosynthesis and cellular respiration. They also investigate cellular signals, the body's response to antigens, and immunity.

### UNIT 4

Students will study the changes in the genetic makeup of a population and in biodiversity over time, they determine relatedness between species, and look at human change over time.

From this students move onto DNA manipulation, and biological knowledge and society.

### ASSESSMENT

A range of School-Assessed Coursework and an external END-OF-YEAR EXAM

### FUTURE PATHWAYS

- Genetics
- Immunology
- Pharmacology

A close-up photograph of a basketball hoop and net, with a basketball visible through the net. The background is a clear blue sky.

# VCE VET SPORT & RECREATION

## Unit 1-4 Certificate III in Sports and Recreation

Certificate III in Sport & Recreation is our most popular VETDSS course, which is understandable as it allows students to develop a comprehensive skill set for employment in the Sport & Recreation industry. Students who complete this program can work more independently in a variety of sport, fitness, or recreation roles compared to a Certificate II level qualification. Additionally, Year 2 of this program offers the opportunity to achieve a study score that contributes to a student's ATAR.

When studying this course, students develop sport-specific knowledge and skill related to participation and coaching alongside the ability to complete general administration and customer service tasks.

### LEARNING AREA

- Sport and recreation session planning
- Facilitating sport and recreation groups
- WHS in sport and recreation environments
- First aid and responding to emergencies
- Coaching
- Social media and educating user groups

### ASSESSMENT

#### UNIT 1 & 2 EXAMINATION: 40%

School Assessed Coursework and  
WORK PERFORMANCE 60%

#### UNIT 3 & 4

A range of School-Assessed Coursework and an END- OF-YEAR  
EXTERNAL EXAMFUTURE

### JOB OPPORTUNITIES

- School camp activity assistant
- Water-sports activities assistant
- Outdoor supplier retail assistant
- Outdoor participant

# VCE VET BUSINESS UNIT 1 -4

## CERTIFICATE II IN WORKPLACE SKILLS CERTIFICATE III IN BUSINESS

The Certificate II level program prepares students for entry-level positions across a diverse range of business services settings and can help to open the door to a vast array of non-technical employment opportunities. It can also lead to further study in either technical or non-technical vocations and aims to develop the most common and transferable skills and knowledge required of almost any workplace.

The Certificate III level program the varied roles of individuals across different industry sectors who apply a broad range of competencies using some discretion, judgement and relevant theoretical knowledge. Students will develop and build teamwork, interpersonal skills and organisational capabilities which can be used to further strengthen their employability skills post- secondary schooling. The importance of digital literacy in the workforce will be addressed, and students will gain a deeper understanding of its importance to their work lives.

The second year (Units 3-4) can be undertaken as a partial completion.

## VCE BUSINESS UNIT 1 & 2 CERTIFICATE II IN WORKPLACE SKILLS

### LEARNING AREA

- Planning and preparation
- Prioritisation and time management
- Teamwork and workplace etiquette
- Effective work habits
- Common digital technologies
- Common business applications
- Communication skills
- Critical thinking and basic problem solving

### ASSESSMENT UNIT 1 & 2

EXAMINATION: 40%

School Assessed Coursework and  
WORK PERFORMANCE 60%

## VCE BUSINESS UNIT 3 & 4 CERTIFICATE II IN BUSINESS

### LEARNING AREA

- Prioritisation and time management
- Common business software applications
- Presentation skills
- Safe and sustainable work practices
- Communication skills
- Teamwork and workplace etiquette
- Critical thinking and basic problem solving
- Stress management & personal well being

### ASSESSMENT UNIT 3 & 4

A range of School-Assessed Coursework  
END- OF-YEAR EXTERNAL EXAM

### FUTURE CAREER PATHWAYS

- Coordinators. Business Manager.
- Start your own small business
- Go onto further roles within Marketing, HR, Sales, etc

# VET COMMUNITY SERVICE

## UNIT 1 & 2 CERTIFICATE II IN COMMUNITY SERVICES

This certificate allows students to develop the skills and knowledge to undertake community services work such as providing support and assistance to a variety of clients including childcare, the elderly and the disability sector. This program is perfect for students looking to move into a range of areas in the community services sector and is the perfect building block for developing a sound educational base specific to the fastest growing sector in Australia.

### LEARNING AREAS

- Working with diverse people
- Communication in the workplace
- Work health and safety
- Providing initial advice to clients, patients, or customers
- Teamwork

### ASSESSMENT UNIT 1 & 2

EXAMINATION: 40%

School Assessed Coursework and

WORK PERFORMANCE: 60%

### ASSESSMENT UNIT 3 & 4

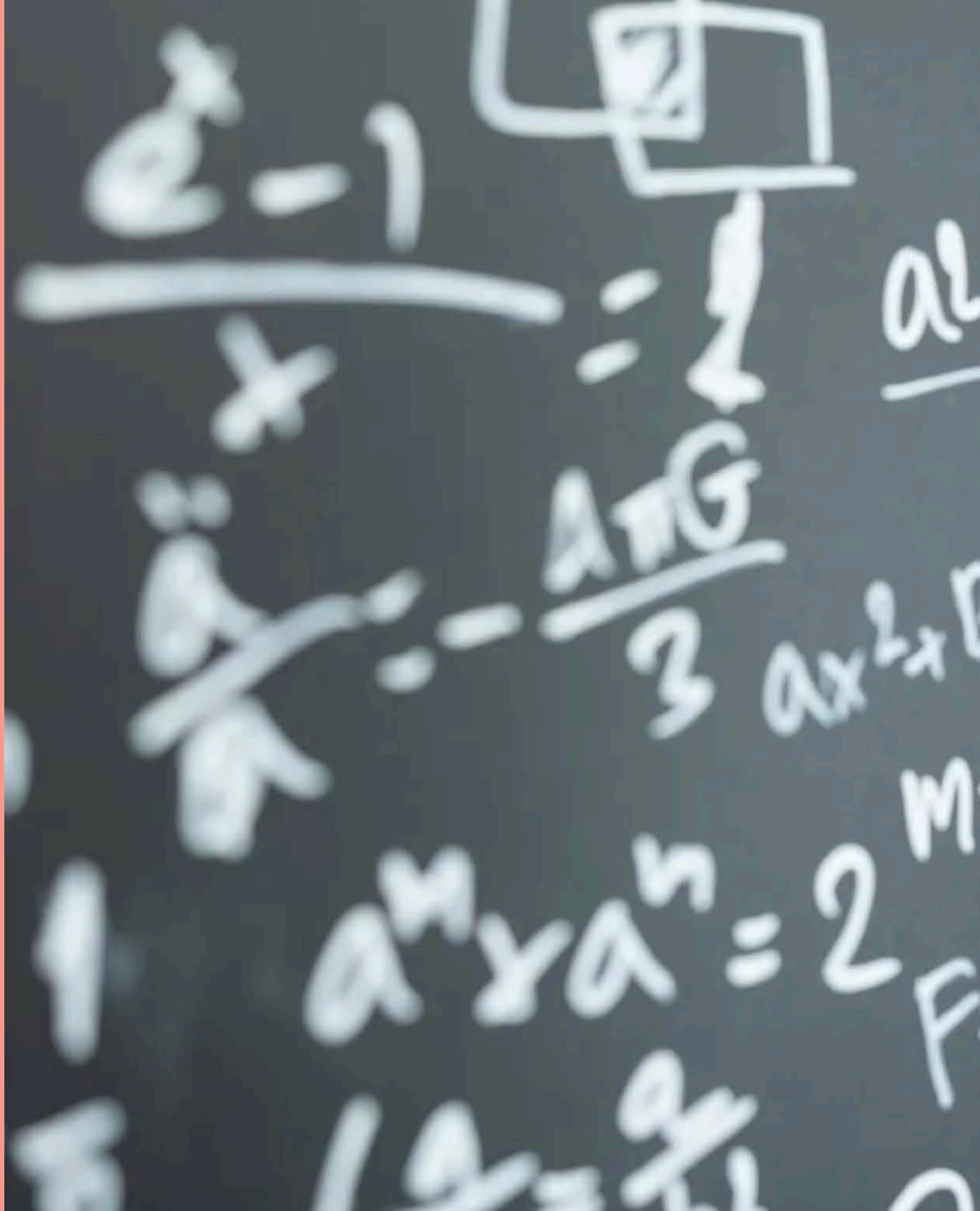
A range of School-Assessed Coursework and an END-of-YEAR EXTERNAL EXAM

### JOB OPPORTUNITIES

- Assistant community services worker
- Assistant childcare worker
- Assistant disability worker
- Elderly assistant
- Care service employee



# VCE MATH PATHWAYS



# VCE FOUNDATION MATHS PATHWAY

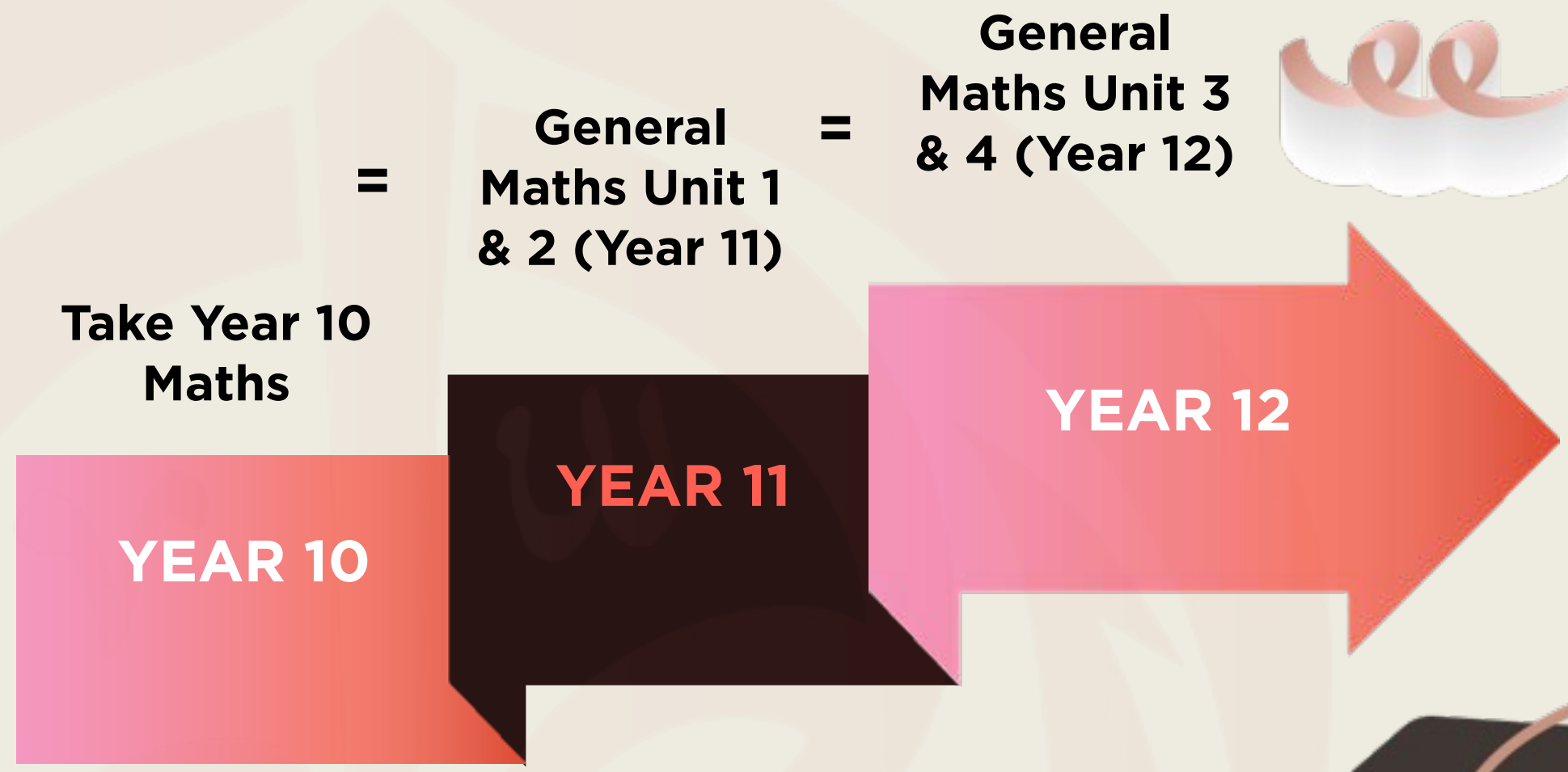
Foundation  
Maths 1 & 2 = Foundation  
Maths 3 & 4

YEAR 11

YEAR 12

STUDENTS UNDERTAKING THIS MATHS OPTION CANNOT DO VCE  
GENERAL MATHS OR MATHS METHODS

# VCE GENERAL MATHS PATHWAY

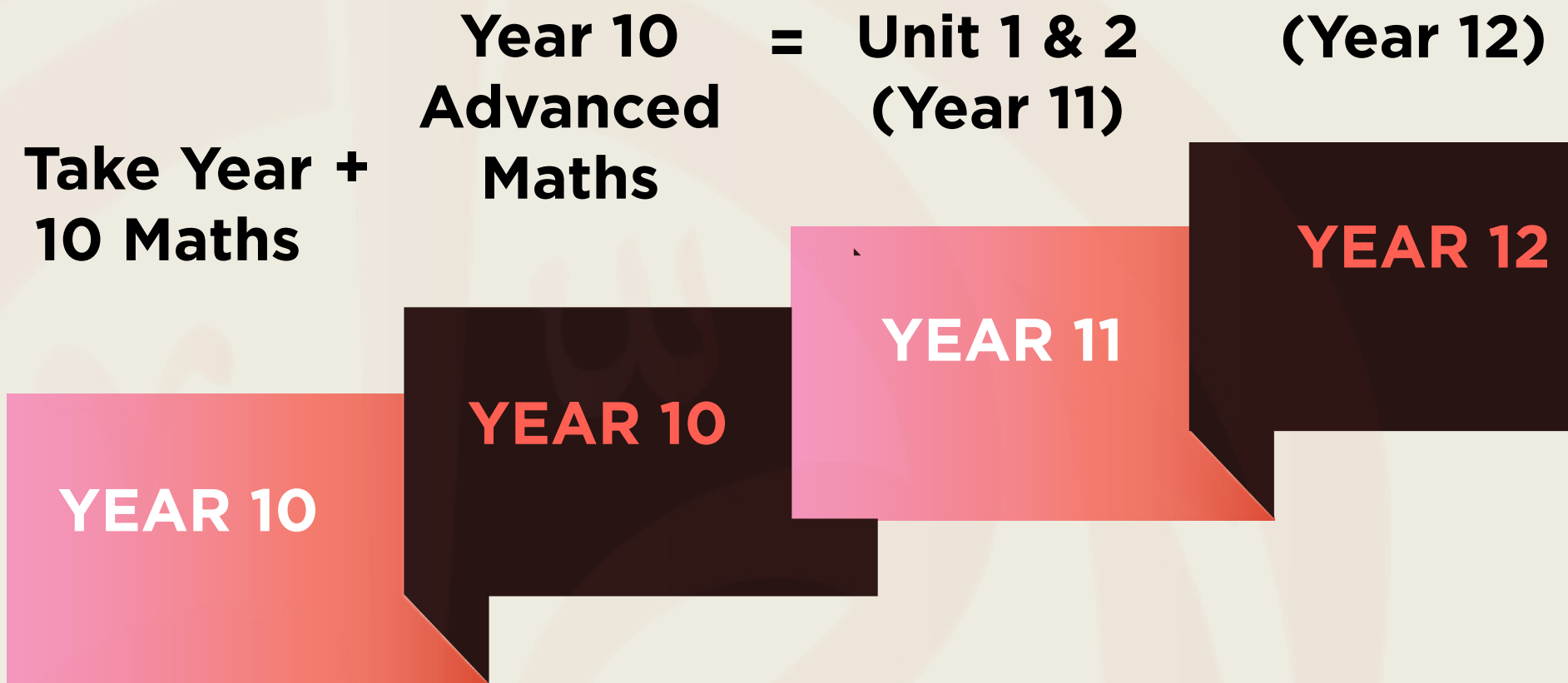


NOTE: MINIMUM ENTRY REQUIREMENTS FOR VCE GENERAL MATHS: 70% OF ABOVE IN YEAR 10 MATHS



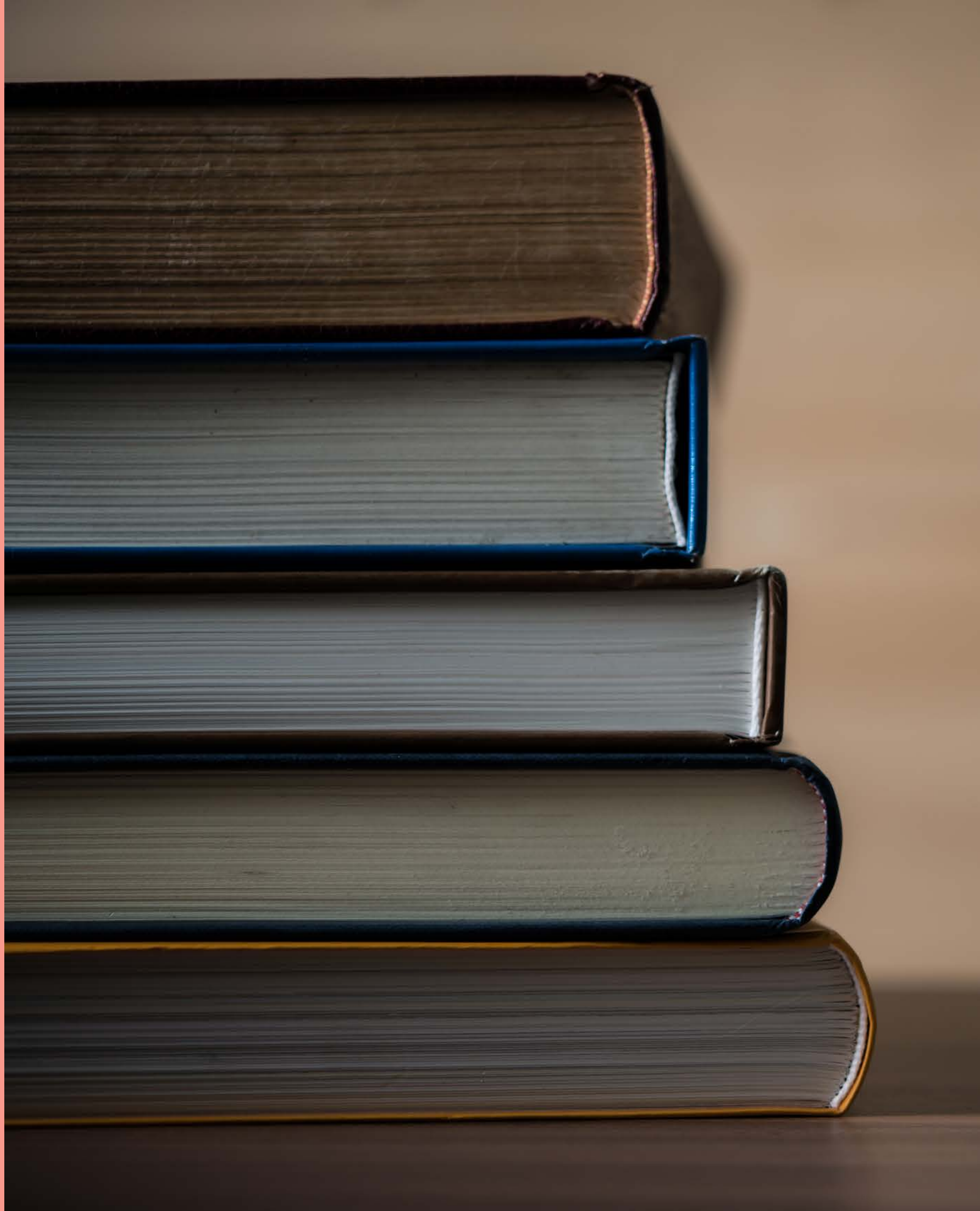


# VCE MATHS METHODS PATHWAY



NOTE: MINIMUM ENTRY REQUIREMENTS FOR VCE GENERAL  
MATHS: 70% OF ABOVE IN YEAR 10 MATHS

# VCE 3-YEAR PLANNING SHEET



# VCE 3-YEAR PLANNING SHEET

YEAR 10	Sem 1	Year 10 English	Maths choice	VCE choice	Humanities or Science	Life Skills or English Skills for VCE	Elective	Elective	Quran or Arabic	Islamic Studies
	Sem 2	Year 10 English	Maths choice	VCE choice	Humanities or Science	Life Skills or English Skills for VCE	Elective	Elective		
YEAR 11	Sem 1	English Unit 1	VCE Unit 3 & 4 (continuation of VCE choice from Year 10)	VCE choice 2	VCE choice 3	VCE choice 4	VCE choice 5	Islamic Studies		
	Sem 2	English Unit 2	VCE Unit 3 & 4 (continuation of VCE choice from Year 10)	VCE choice 2	VCE choice 3	VCE choice 4	VCE choice 5			
YEAR 12	Sem 1	English Unit 3	VCE choice 1	VCE choice 2	VCE choice 3	VCE choice 4	Islamic Studies			
	Sem 2	English Unit 4	VCE choice 1	VCE choice 2	VCE choice 3	VCE choice 4				

# PLANNING FOR THE FUTURE

	YEAR 10	YEAR 11 Unit 1 & 2	YEAR 12 Unit 3 & 4
ENGLISH	<ul style="list-style-type: none"> <li>English (All students)</li> <li>English Skills for VCE (All students)</li> </ul>	Must do one: <ul style="list-style-type: none"> <li>English</li> <li>EAL</li> </ul>	Must do one: <ul style="list-style-type: none"> <li>English</li> <li>EAL</li> </ul>
MATHEMATICS	All students must do: <ul style="list-style-type: none"> <li>Foundation Maths* OR</li> <li>Year 10 Maths*</li> </ul> Students who want to do VCE Maths Methods must do: <ul style="list-style-type: none"> <li>Year 10 Advanced Maths*</li> </ul>	<ul style="list-style-type: none"> <li>VCE Foundation Maths</li> <li>VCE General Maths</li> <li>VCE Maths Methods</li> </ul>	<ul style="list-style-type: none"> <li>VCE Foundation Maths</li> <li>VCE General Maths</li> <li>VCE Maths Methods</li> </ul>
SCIENCE	<ul style="list-style-type: none"> <li>Science (All students)</li> <li>Chemistry</li> <li>Physics</li> <li>Psychology</li> <li>Forensic Science</li> <li>Criminal Minds</li> </ul>	<ul style="list-style-type: none"> <li>VCE Biology</li> <li>VCE Chemistry</li> <li>VCE Physics</li> <li>VCE Psychology</li> </ul>	<ul style="list-style-type: none"> <li>VCE Biology</li> <li>VCE Chemistry</li> <li>VCE Physics</li> <li>VCE Psychology</li> </ul>
HEALTH	<ul style="list-style-type: none"> <li>Health</li> <li>Sport Science</li> </ul>	<ul style="list-style-type: none"> <li>VCE Health and Human Development</li> <li>VCE VET Sport and Recreation</li> <li>VCE Physical Education*</li> </ul>	<ul style="list-style-type: none"> <li>VCE Health and Human Development</li> <li>VCE VET Sport and Recreation</li> <li>VCE Physical Education*</li> </ul>
HUMANITIES	<ul style="list-style-type: none"> <li>Humanities (All students)</li> <li>Legal Studies</li> <li>Business Studies</li> </ul>	<ul style="list-style-type: none"> <li>VCE Legal Studies</li> <li>VCE Business Management</li> <li>VCE Sociology</li> <li>VCE VET Business</li> <li>VCE VET Community Services</li> <li>VCE Accounting*</li> <li>VCE Economics*</li> <li>VCE History*</li> <li>VCE Australian and Global Politics*</li> </ul>	<ul style="list-style-type: none"> <li>VCE Legal Studies</li> <li>VCE Business Management</li> <li>VCE Sociology</li> <li>VCE VET Business</li> <li>VCE VET Community Services</li> <li>VCE Accounting*</li> <li>VCE Economics*</li> <li>VCE History*</li> <li>VCE Australian and Global Politics*</li> </ul>
QURAN AND ISLAMIC STUDIES	<ul style="list-style-type: none"> <li>Quran</li> <li>Arabic</li> </ul>	<ul style="list-style-type: none"> <li>VCE Text &amp; Traditions</li> <li>VCE Arabic</li> </ul>	<ul style="list-style-type: none"> <li>VCE Text &amp; Traditions</li> <li>VCE Arabic</li> </ul>
ART / TECHNOLOGY	<ul style="list-style-type: none"> <li>Graphics</li> <li>Food Studies</li> <li>Systems Engineering</li> <li>Information Communications Technology</li> <li>Woodwork</li> </ul>	<ul style="list-style-type: none"> <li>VCE Visual Communication &amp; Design</li> <li>VCE VET Information Technology</li> <li>VCE Food Studies*</li> </ul>	<ul style="list-style-type: none"> <li>VCE Visual Communication &amp; Design</li> <li>VCE VET Information Technology</li> <li>VCE Food Studies*</li> </ul>

\* Subjects not currently offered at Al Siraat College, however, may be available in 2024.

^Entry into VCE Maths and Science subjects is dependent on students achievement in Year 10 Maths and Science subject groups and recommendations from the Maths and Science Department in consultation with the VCE Coordinator. Refer to subject descriptions for minimum entry requirements.

^Entry into VCE Biology and Year 10 Advanced Maths for Year 10 students is dependent on their Year 9 Science results. Refer to subject descriptions for minimum entry requirements.



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