Year 10 Subject Selection Handbook 2016

A Community growing in Faith & Love • Serving Others • Striving to Achieve • Thinking for the Future
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INTRODUCTION

Encouraging students to stay at school, strive for success and find fulfillment in their chosen field of study and work is an important task not only for schools but also for the whole community. Young people who access further education and training beyond secondary school are equipping themselves for participation in a rewarding and purposeful future. When they understand and embrace the view that learning is not just for a particular phase in life but is life long they build their capacity for participation and flexibility in a global community. For young women this is particularly important, as many will choose to be a parent and take time out of the paid workforce. Re-entering the workforce is made easier with an array of skills and an attitude that embraces learning as a constant companion throughout life’s journey.

At Marian College, the core curriculum from Years 7 to 9 equips students for the Senior Years and beyond by consolidating literacy and numeracy skills and developing understandings about the global community and our place within it. These skills are developed within a supportive environment where each girl’s sense of self and spirit are nurtured. In a school of this size, each girl is known to staff and peers. Her successes are built upon. She is secure in the knowledge that her capacity will be stretched but there is always somebody to assist if she requires support.

At Marian College we describe the phase of education from Years 10 to 12 as ‘Pathways’ and it is characterized by a high degree of personalisation. The elective program at Year 10 encourages students to further explore their options and abilities. At Year 10 or 11, some students will decide to undertake a VET unit that will contribute to her ATAR score and give some credit towards TAFE courses. Some will enrol in a VCAL certificate. Others will be encouraged to accelerate their VCE program, in either one or two studies, to optimise their capacity in areas that they are especially talented in. These students may go on to an Enhancement course at University during Year 12 and complete a first year subject of a Bachelor course. Whatever their chosen pathway, options abound for students to create a program that is suited to the need, interests and talents of each individual.

For some students, university is the desired initial pathway to a career, for others it is TAFE or an apprenticeship. Some students may choose to enter the workforce immediately after completing Year 12. Whatever the pathway of choice, we are confident that the learning experiences from Year 7 to 10 will provide students with a firm foundation from which to make positive choices about their future.

The exploration of options and pathways requires thorough research and careful planning which each individual student is strongly recommended to undertake. Each student should reflect on her strengths and interests so that learning programs are selected which are relevant and rewarding to the individual. Programs which ensure a student’s interest is maintained and which are at the same time challenging provide a solid foundation for attaining personal excellence. Every student will be supported in her exploration and research with advice on prerequisites for further education and work.

Our hope is that students continue in their quest to become confident learners, accomplished in a variety of skills. We provide opportunities for them to dream new and exciting futures for the world and the skills to balance studies with a rich family life, part-time work, recreation and committed friendships. In the spirit of the Brigidine Tradition we expect and encourage all students to contribute to the school and the wider community, enhancing their capacity to develop into the best person they can be while contributing to a supportive society that builds the dignity and integrity of each individual.

With every best wish,

Rita Grima
Co-Principal

Raymond Pisani
Co-Principal
Year 10 is the first year of senior schooling at Marian College. You will complete both core and elective subjects and you will have the opportunity to select what you want to study from a wider range of subjects. You will also have the opportunity to ‘accelerate’ into VCE or VCE VET Studies. Some students may choose to enrol in the Marian College Applied Learning Program. You will also have the chance to complete a work placement in a field of your choice.

All of these opportunities will enable you to know yourself better as a learner, to explore options and pathways and to continue experiencing and learning new skills.

There will be some options available to you at Year 10 within the core and elective components that you will need to consider as you develop your learning program. These options are explained in this handbook. Talk to your homeroom teachers, your subject teachers, other key staff and your parents about the choices that you are making.

Many of you may not yet have decided which “pathway” into Year 11 and 12 (and beyond) is the right one for you. This is perfectly normal at this stage. However, in this case you need to select a learning program that keeps your options open and your pathways flexible. Your teachers will be able to provide you with advice. You also need to be investigating and researching all of the options available to you. A good start would be to visit the Careers Office in the Resource Centre and/or to make an appointment with the Careers and Pathways Leader. In the following section you will find some advice about how you can go about your pathways planning and the types of activities the school offers to guide you in this planning.

Each Year 9 student will have an opportunity to discuss options with their homeroom teacher, to help them plan their learning program for Year 10.

As part of the Year 9 Program, each student will participate in the iExplore Day which will enable them to explore pathway options and subject selection for their Year 10 course. Students should also attend the Marian College Pathways & Subject Expo.

In the following pages, you will find the different options that are available to you at Year 10. Please read these carefully.
YEAR 10 AT MARIAN COLLEGE – WHAT ARE MY OPTIONS?

YEAR 10 CORE SUBJECTS
The following subjects are core subjects in the Year 10 Program at Marian College. These subjects are compulsory for students in the standard Year 10 Program. There are some options available within some of these subjects are these are outlined in this handbook.

- Religious Education
- Pastoral Care
- English
- Mathematics
- Health and Physical Education
- History (1 Semester only)
- Science (1 Semester only)

YEAR 10 ELECTIVES
There are a number of elective units across different learning areas that are available to you. These electives are detailed within this handbook. Take the time to read each of the subject descriptions. Some of these electives are designed as extension options providing additional challenge. These include: Extension Physics/Chemistry, Extension English Literature Appreciation, Advanced Mathematics and Philosophy.

Generally, you will need to select 4 elective units for your Year 10 Learning Program. However, this may vary dependent on other choices such as acceleration studies.

VICTORIAN CERTIFICATE OF EDUCATION (VCE)
Some Year 10 students might consider completing one or even two VCE Unit 1 and 2 Studies in place Year 10 Electives. Students considering studying a VCE subject in Year 10 must complete an acceleration application form, available from the Learning and Teaching Office. The criteria for approval are listed on this application form. You will need to complete an application for each acceleration study that you are applying for. It must be noted that only students who have demonstrated excellence in achievement and application could be considered for two acceleration studies. Some students may not be approved for acceleration studies or students applying for two studies may only be approved for one study.

If you are interested in studying a VCE subject in Year 10 please refer to the Senior Certificates Handbook. There are descriptions of all the VCE units available in this handbook to help you gain a better understanding of the subjects you may be interested in studying.

Students can accelerate into a wide range of subjects but not:
- English
- Literature
- Physics
- Chemistry

In exceptional cases, a student may be permitted to accelerate into a VCE Mathematics Study; however, prior approval must be gained from the Learning Leader (Ms Lapuz).

VOCATIONAL EDUCATION AND TRAINING (VET)
Your Year 10 Program may include a VET (Vocational Education and Training) subject. Marian College will offer VET Certificates to Year 10 students in 2016. This VET Certificate will replace two of your Year 10 elective choices. Students considering studying a VET subject in Year 10 must complete an acceleration application form.
If you are interested in studying a VET subject in Year 10 please refer to the Senior Certificates Handbook. There are descriptions of all the VET units available in this handbook to help you gain a better understanding of the subject you are interested in studying.

A VET subject allows you to gain a VET Certificate (level two or three) while at the same time contributing to the requirements of the VCE or VCAL. Scored VCE VET studies contribute to the ATAR whilst unscored studies may provide an increment or block credit.

VET certificates are completed over two years and usually involve a work placement for a short period of time.

VET studies are suitable for students who:
- are interested in gaining an extra qualification along with their VCE
- are interested in gaining employment or an apprenticeship or traineeship
- are interested in studying at TAFE

EXTERNAL PROGRAMS
Some of students may complete a VET course outside the school through a place of employment. Others may be studying a language or some other VCE subject externally or via distance education. You must notify Marian College of your intention to complete subjects externally so that we can help you build this into your learning program. This may not reduce the number of subjects you are expected to complete at Marian College but this will be considered on a case by case basis.

MARIAN APPLIED LEARNING
The Marian Applied Learning Program has been developed in response to the needs of our students, recognising that the standard Year 10 Program does not suit all students. This program is ideal for hands-on learners who are considering a VCAL (Victorian Certificate of Applied Learning) Pathway for Years 11 and 12. Students may gain credit towards the Foundation VCAL in Year 10, as well as credit towards one or more VET Certificates. A VCE Pathway may still be available for students in Years 11 and 12; however, subject choices would be limited.

AND FINALLY…
As you are considering your choices for Year 10:
- think about the subjects you enjoy and are good at
- think about subjects that you are interested in trying
- keep in mind the pathways you might consider in Years 11 and 12 and once you complete secondary school
SO HOW DOES IT ALL WORK?

- After attending the iExplore Day and the Pathways Expo, you will have time in pastoral care and homeroom to discuss your program of studies for Year 10, with your Homeroom Teacher.
- There will also be additional information provided by your current subject teachers and Learning Leaders.
- Any research you have completed from the Job Guide or the VTAC Guide or from your attendance at Open Days should also be considered and discussed.
- You will receive your username and password for Web Preferences Online. You will then enter your selections online.
- A print-out of your final choices must be signed by a parent or guardian and returned to the collection box outside the Learning and Teaching Office.
- Your choices along with choices of all other students will be used to generate a grid from which we will determine which units will be offered and on which lines. For this reason, it is essential that you carefully rank your preferences.
- If the units you have selected clash or if the units do not run due to low enrolment numbers, your reserve choices will be used. It is important that your reserve subjects are also subjects that you would be happy to study and that you also rank these in order of preference.

KEY DATES

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday 13 July</td>
<td>Senior Subject Handbook available online and Coneqt – S (for students considering acceleration studies)</td>
</tr>
<tr>
<td>Monday 13 July</td>
<td>Letter mailed out to all current Year 9, 10 and 11 students providing information about the subject selection process and the Subject Expo and Parent Information Evening</td>
</tr>
<tr>
<td>Wednesday 15 July</td>
<td>Applications for Acceleration - Year 10 (current Year 9) VCE and VCE/VET Units 1/2 open for collection</td>
</tr>
<tr>
<td>Friday 17 July 11.00 am</td>
<td>Year 10 Subject Handbook (2016) available on website and Coneqt – S</td>
</tr>
<tr>
<td>Friday 17 July</td>
<td>Year 9 iExplore (pathways/subject related activities and presentations) VET, VCAL, VCE, acceleration, Year 10 and Year 10 Applied Learning.</td>
</tr>
<tr>
<td>Monday 27 July</td>
<td>Marian College Subject Expo and Parent Information Evening from 5.00 pm</td>
</tr>
<tr>
<td>Monday 3 August</td>
<td>Applications for Acceleration - VCE and VCE/VET Units 1/2 close</td>
</tr>
<tr>
<td>Friday 7 August</td>
<td>Pastoral Care Period for subject selection mentoring</td>
</tr>
<tr>
<td>Friday 7 August</td>
<td>Applications for Year 10 Applied Learning close</td>
</tr>
<tr>
<td>Wednesday 12 August</td>
<td>Parent Teacher Student Interviews</td>
</tr>
<tr>
<td>Thursday 13 August</td>
<td>Web Preferences Module opens for subject selection for Year 10 2016</td>
</tr>
<tr>
<td>From 13 to 26 August</td>
<td>Subject selection mentoring can take place with Homeroom Teachers</td>
</tr>
<tr>
<td>Thursday 27 August 9.00 am</td>
<td>Web Preferences Module closes for Year 10, 2016</td>
</tr>
<tr>
<td>Friday 28 August</td>
<td>Deadline for return of signed receipt print-outs</td>
</tr>
</tbody>
</table>

There are some very important points to note about this process:

- While Marian College offers a comprehensive range of studies, not all units will be offered if numbers in classes are too low.
- Some variations may occur to the units being offered due to changes in student numbers, staff availability and available resources.
The following table shows the structure of the Year 10 Learning Program of both core and elective subjects:

<table>
<thead>
<tr>
<th>Units/Subjects</th>
<th>Periods per Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religious Education (core)</td>
<td>4</td>
</tr>
<tr>
<td>Pastoral Care (core)</td>
<td>2</td>
</tr>
<tr>
<td>English or Foundation English (core)</td>
<td>6</td>
</tr>
<tr>
<td>Mathematics – Advanced or Standard or Foundation Numeracy (core)</td>
<td>6</td>
</tr>
<tr>
<td>Science - Advanced or Science for Life (core) (one semester only)</td>
<td>6</td>
</tr>
<tr>
<td>Australian History (core) (one semester only)</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education (core)</td>
<td>4</td>
</tr>
<tr>
<td>Electives two per semester or four over the year</td>
<td>6 per elective per semester</td>
</tr>
</tbody>
</table>

An acceleration VCE or VCE VET Study or LOTE takes two elective spaces as it is studied in both semesters.
Why study Religious Education?
Religious Education at Year 10 is a core subject for all students. The subject is conducted over four, seventy-five minutes periods per fortnightly cycle. At Marian College Religious Education is valued highly and, at Year 10, is seen as a means to preparing foundational skills for VCE Religious Education.

Description
Year 10 Religious Education comprises 2 Units

Unit 1: Relationships, commitment and moral responsibility

Unit 2: Social Justice – Catholic Social Teaching, Declaration of Human Rights, Voluntary Work placements, Marriage and Choice

Assessment
There will be a variety of assessment tools used over the year, such as reports, essays, oral presentations, multimedia, posters and journals.

Where does Religious Education lead to?
The Year 10 RE course is foundational to VCE courses, such as Religion and Society and Texts and Traditions.
Why study English?
Year 10 English is an extension of Year 9 English. The subject focuses on developing students' understanding of how to analyse various texts, explore the craft of writing in different genres and text types and develop their confidence in presenting to an audience.

Description
Year 10 English encourages students to extend and develop their reading, writing, listening and oral communication skills through an exploration of a variety of texts, issues and genres. In Unit 1, students study film as text, exploring how cinematic elements convey meaning. In Unit 2, students read a class novel and explore and analyse characters, plot development, themes, values and issues as they emerge in the text. Unit 3 focuses on the students' ability to confidently communicate verbally in a variety of situations, and continues the study of texts. In Unit 4, students explore how language is used to persuade through an examination of issues in the media followed by a short unit on reading and understanding poetry.

Some students may be recommended for the Foundation English Course. This course provides additional support and scaffolding for students who are still developing skills required for success in Year 10 English. Assessment may be modified but students could still progress to VCE English.

Assessment
The speaking, listening, reading and writing learning outcomes will be assessed using a combination of the following assessment activities:

- Analytical responses to texts (written, oral, diagrammatic – e.g. essays, reviews, concept maps, letters to the editor, advertisements, and debates)
- Expository responses to texts
- Creative responses to texts (monologues, journal entries, poetry, short stories)
- Research projects and presentations (independent and group presentations)
- Independent reading activities
- Test activities
- End of semester examination

Where does English lead to?
A satisfactory completion of Year 10 English should serve as a thorough preparation for VCE Units 1 and 2 English.
**Why study Mathematics?**

Year 10 Mathematics can do a variety of things. It can provide preparation for VCE studies in Foundation Mathematics, General Mathematics, Further Mathematics, Mathematics Methods and Specialist Mathematics. It can develop skills which are easily transferable to various careers. It can also provide a range of skills which can be applied to everyday life, such as problem solving, financial maths, maths in design and interpretation of statistics.

In the long term, Mathematics can lead to careers in finance and business, computing and gaming, telecommunications, defence, engineering and technology, health and science, to name just a few.

**Description**

At Year 10, students must choose from a number of paths through maths, depending on their mathematical ability and aptitude and their prospective Year 11 courses:

- **Year 10 Advanced Mathematics - application needed (whole year – see separate entry).** A Texas Instruments TI-Nspire CAS calculator will be required for this course (cost approx. $210) and will be used extensively throughout and into VCE. This subject will provide more depth and breadth in Mathematics. The students will study course content that covers the 10 and 10A curriculum as prescribed by ACARA. The course content is similar to the Year 10 Core Mathematics but will extend to the Year 11 Mathematics Methods course. The focus will be on developing routine, analytical and problem-solving skills and conceptual understanding.

**Semester 1**

- Standard Year 10 Mathematics: Pre-requisite topics include Linear Algebra, Trigonometry, Statistics, and Measurement. A Texas Instruments TI-Nspire CAS calculator will be required for this course (cost approx. $210) and will be used extensively throughout and into VCE.
- **Year 10 Foundation Mathematics (whole year – see separate entry)** All units (except Foundation Mathematics) will use the standard Year 10 Maths textbook (cost approx. $60).

**Semester 2**

In Semester 2, based on Semester 1 achievement, students will then go into Mathematics Methods Pathway or Mathematics General Pathways.

**Where does Year 10 Mathematics lead to?**

Some suggested pathways are given below. You do not need to follow these suggestions, but they might be helpful if you are unsure about which to choose. If you are unsure of which units to choose, please see the Learning Leader or your Mathematics teacher.
### MATHEMATICS PATHWAYS

<table>
<thead>
<tr>
<th>Year 10 Semester 1</th>
<th>Year 10 Semester 2</th>
<th>Year 11</th>
<th>Year 12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Year 10 Maths</td>
<td>Mathematics Methods 1&amp;2</td>
<td>Mathematics Methods 1&amp;2</td>
<td>Mathematics Methods 3&amp;4 and Specialist Mathematics 3&amp;4</td>
</tr>
<tr>
<td>Standard Year 10 Mathematics</td>
<td>Mathematics Methods 1&amp;2</td>
<td>General Mathematics for Further 1&amp;2</td>
<td>Mathematics Methods 3&amp;4</td>
</tr>
<tr>
<td>Mathematics General Pathways</td>
<td>Foundation Mathematics</td>
<td>Foundation Mathematics VCAL Numeracy</td>
<td>Mathematics Methods 3&amp;4 and Further Mathematics 3&amp;4</td>
</tr>
<tr>
<td>Foundation Maths Year 10</td>
<td>Further Mathematics 3&amp;4</td>
<td>No Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

See the Senior Certificates Subject Handbook for further information about VCE Mathematics studies.

### Calculators in VCE

There are two types of calculators used in the VCE:

- **Scientific calculator** This is the type used in Years 7-9. Some VCE subjects, such as Accounting and Science subjects, will only allow this type.
- **Computer Algebra System (CAS) Calculator** The Texas Instruments TI-Nspire will be used in Year 10 – 12.

*The recommended calculator for Year 10 will be able to be resold in the following year if not required.*
Why study Advanced Mathematics?
Year 10 Advanced Mathematics is designed to provide thorough preparation for Mathematics Methods 1 and 2. It is appropriate for students who want to study a broad range of areas at a faster pace than in the standard Year 10 Course.

Description
Advance Mathematics covers the 10 and 10A curriculum prescribes by ACARA. Some topics in Math Methods Unit 1 are also introduced.

All students undertaking Year 10 Advanced Mathematics need to have a Computer Algebra System (CAS) calculator. These are used extensively throughout the course and are allowed to be used in examinations in Units 3 & 4. The recommended calculator for purchase is the Texas Instruments TI-Nspire. The price is approx. $210.

Assessment
Assessment in Advanced Mathematics is entirely school based and consists of end of semester exams, topic tests and investigative projects.

Where does Year 10 Advanced Mathematics lead to?
Year 10 Advanced Mathematics is designed for students wanting to study Mathematics Methods 1-4 and/or Specialist Mathematics 3 & 4. It may also lead to Further Mathematics 3 & 4 in Years 11 or 12.

It is not a prerequisite for Mathematics Methods 1&2. It is not a substitute for Advanced General Mathematics 1&2.

Subject Entry
Entry to Year 10 Advanced Mathematics is subject to:-

- Interview process
- Average result of “A” in Mathematics
- Teacher recommendation
- Completion of extension work
- Commitment to attend additional tutorials which may be after school hours
YEARN 10 ADVANCED MATHEMATICS

**SEMESTER 1**
- Trigonometry
- Geometry and Measurement
- Statistics
- Linear Algebra

**SEMESTER 2**
- Number Systems
- Quadratics
- Probability
Why study VCE Foundation Mathematics?
Foundation Mathematics provides an opportunity to experience success in Mathematics for students who are not considering a career in a profession requiring high levels of Mathematical expertise. This is a course which will prepare students for real life situations where an understanding of basic number is important.

Description
In Foundation Mathematics there is a strong emphasis on the use of mathematics in practical contexts encountered in everyday life in the community, at work and at study. The areas of study for Units 1 and 2 of Foundation Mathematics are ‘Space, shape and design’, ‘Patterns and number’, ‘Data’ and ‘Measurement’. All four areas of study are to be completed over the two units.

Assessment
Assessment of Units 1 & 2 involves a series of topic tests to confirm students’ understanding of skills practice and standard applications. Students will also undertake problem solving and modelling exercises, and complete investigative projects to determine satisfactory completion of prescribed outcomes.

Where does VCE Foundation Mathematics lead to?
Students completing these units are prepared for the reality of living as aware and successful members of our society. They will have some degree of familiarity with situations they are likely to encourage after they finish school.

Important Information
Students choosing VCE Foundation Mathematics will not be able to proceed to VCE General Mathematics or VCE Mathematics Methods so it is important that they check with the Careers Coordinator before making this choice. They may proceed to VCAL Numeracy.
UNIT 1

Space, shape and design
In this area of study 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, societal, industrial and commercial plans, maps and diagrams.

Patterns and number
In this area of study students cover 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.

UNIT 2

Patterns and number
In this area of study students cover 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.

Measurement
In this area of study students cover 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.
Why study Health and Physical Education?
This subject will develop the students’ awareness of the importance of regular physical activity and general health of the body. It also aims to develop confidence in the student’s ability to maintain a good level of fitness for health and wellbeing.

Description
The units covered in this subject include improving fitness and nutrition, the study of the body systems, and rights and responsibilities in relationships. The practical component aims to involve students in a variety of physical activities, individual improvement and demonstration of physical activity, for example, fitness activities, self-defence, and various team sports. This will provide students with a feeling of empowerment over their level of activity as a pre-cursor to commencing life-long activity.

Assessment
Assessment will take the form of practical and theoretical components. Demonstration of achievement will be based on performance and skill competency, participation and application, attendance and submission of theoretical work.

Where does Health and Physical Education lead to?
This subject exposes students to a range of outdoor activities that are accessible to students outside of school. This subject also provides pathways to VCE and VET subjects such as; Physical Education, Health and Human Development, Sport and Recreation, and Outdoor and Environmental studies. This subject would be ideal for any student considering the following careers; Health Sciences, Personal Trainer, Coach, PE and Outdoor Education Teacher and many more.
HUMANITIES

Why study Humanities?
Humanities units at Year 10 provide students with an appropriate background for senior Humanities Studies. They also provide students with an understanding of the world around them and assist in the development of a range of important skills.

Humanities Core
All students must study the Core Australian 20th Century History Unit.

Humanities Electives
The Humanities electives will give students the opportunity to ‘taste’ various Humanities subjects offered in VCE. Curricular projects across Legal Studies, Geography, Economics, Business, Accounting and Politics will provide students with a practical understanding of the skills needed in each of these subjects. The elective will enable students to make more informed VCE choices, which will enhance their career paths.

Humanities Subjects Offered:

Core:
Australian 20TH Century History (Australian Curriculum-Core)

Electives: (See Electives section of this Handbook)
- A Taste for Business, Accounting and Economics
- Law and Order: The Australian Legal System
- Philosophy
- American History
- Geography
Why study Australian 20th Century History?
Studying history benefits students in several ways. Firstly knowing your history helps you understand the world in which you live; you gain an appreciation as to why society is the way it is today and you have knowledge of the reasons for this. Secondly the study of history assists students in extending their general writing, research and analytical skills, all important life skills.

Australian 20th Century History begins by looking at Australia in the aftermath of the First World War. Students examine the impact of the Great Depression on Australia as well as gain an understanding of its impact internationally as one of the underlying causes of the Second World War. The experiences of Australian soldiers, mainly in the Pacific are studied, as is the experience of civilians on the home front. Post war Australia was a time of major changes for Australia. Students will learn about the impact of changes in migration policy, quests for change in society by women, young people and Indigenous Australians as well as the international background of the Cold War.

Description
In Australian 20th Century History you will examine various topics including:

- How did the First World War impacted on Australia
- Why the ‘Great Depression’ occurred and how it was experienced in Australia and Europe
- The experience of Australian soldiers and prisoners of war in the Pacific
- Why Australia has an alliance with the United States
- Why the Twenties were ‘roaring’ and the Sixties ‘swinging’
- How women, youth and Indigenous Australians sought change in the 1960s
- How the Cold War impacted Australia

Assessment
There are three requirements for Australian 20th Century History:

1. Document analysis
2. Research assignment
3. Regular short to medium answer questions

Where does Australian 20th Century History lead to?
Studying Australian 20th Century History can help you in a variety of subject areas at VCE level including, Legal Studies, Economics, Global Politics, and History.
Why study Science?
Science units at Year 10 provide students with an appropriate background for senior science studies and also for a broader understanding of science in everyday life. Students will gain a broader basis from which to make more informed choices regarding VCE units of study. While every student has to complete Year 10 Science there is a choice of units available so that students can design their own Year 10 Science program.

Core Units
Students must choose one of the CORE Science units. Students who are considering studying science in VCE are encouraged to choose Advanced Science rather than Science for Life. Students are encouraged to consult with their Year 9 science teachers for which pathway way they should follow into year 10 and beyond.

Advanced Science (Core):
*Key science components: Chemistry, Biology, Physics, Earth and Space Science.*

This unit is designed to cover all components of the Australian curriculum. It is specifically designed to prepare students with skills they require for science in VCE and beyond. The skills set will have a major emphasis on practical work and scientific writing and study techniques.

In the first part of the unit students will look at Biological and Earth and Space science which cover areas such as genetics, in particular DNA, heritable characteristics and genes. This will then lead on to exploring the ‘Theory of Evolution’ and theories on the origin of the universe such as ‘The Big Bang Theory’. Students will also explore Global systems including the carbon and nitrogen cycle, their interactions and contemporary views on climate science.

In the second part of the unit the focus will be on Chemical and Physical sciences. The first half of the unit will address Chemistry concepts such as the periodic table and chemical reactions, including their rates and range of uses and Stoichiometry. Following on students explore the ‘laws of physics,’ motion, energy conservation and transfer within a system.

Students will be required to purchase the year 10 JacPlus on-line bundle.

Science for Life (Core)
*Key science components: Biology, Chemical, Earth and Space and Physical Sciences*

This unit is designed to cover all components of the Australian curriculum. It will still cover the same concepts as Advanced Science but is designed for students who do not intend to pursue Chemistry or Physics when moving into VCE.

There is a greater emphasis on science for survival in the real world. It will look at the science that the students may face on a daily basis. It will aim to address questions such as:
- What is chemistry in the makeup products I use?
- How do I evaluate the labels on what I am consuming and the reactions in my body?
- The genetics behind why my eyes are blue but my parents are brown?
- How am I able to make a difference in my carbon footprint?
- The physics of what happens during a car crash.
- Where has the universe as we know it today come from?
SCIENCE

The first half of the unit will address Chemistry concepts such as the periodic table and chemical reactions, including their rates and range of uses. Following on students explore the ‘laws of physics,’ motion, energy conservation and transfer within a system.

The second half of the unit will see the students explore Global systems and the Universe, what it contains and where it may have originated from. The unit will then culminate with an investigation into the diversity of living things by natural selection, DNA, genetics and heritable characteristics.

Students will be required to purchase the Jac Plus on-line bundle.

Science Subjects Offered:

CORE:

Advanced Science Core

Science for Life Core

ELECTIVES: (See Electives section of this Handbook)

Extension Chemistry/Physics

Consumer Science/Living Sustainably
YEAR 10 ELECTIVES

ENGLISH
Literature Appreciation – Advanced English

HEALTH AND PHYSICAL EDUCATION
Adventure Sport
Sports Science

HUMANITIES
A Taste for Business, Accounting and Economics
Law and Order: The Australian Legal System
American History 1865 - 1965
Philosophy
Geography

LOTE
Indonesian
Italian

PERFORMING ARTS
Drama and the Theatre
Music Performance
Media
Time to Dance

SCIENCE
Extension Chemistry / Physics
Consumer Science / Living Sustainably

TECHNOLOGY
Food and Technology
Woodwork
Fashion Design and Technology – Textiles
Gaming and Computer Programming

VISUAL ARTS
Photography
Studio Arts
Visual Communication and Design
LITERATURE APPRECIATION

Why study Literature Appreciation (Advanced English)?
Advanced English aims to help prepare students for VCE English and VCE Literature. Students study the way in which authors construct their stories and how this shapes responses to their work. In Advanced English students examine how language is used to persuade, especially in regards to advertising. Students will also have the opportunity to view and discuss an Australian film as text. Regular vocabulary and grammar exercises will further develop students’ writing skills.

Description
In Advanced English students will:
• Complete vocabulary extension exercises
• Learn the techniques writers use to persuade and analyse how these are used in advertising
• Read a classic short story of the mystery/horror genre and discuss how the author used various literary devices to create atmosphere, mystery, tension and character
• View a modern Australian film as text
• Practice your essay writing skills

Assessment
There are three work requirements for Advanced English
1. Film as text essay response
2. Persuasive techniques used in advertising analysis
3. Text response
4. End of semester exam

Where does Literature Appreciation (Advanced English) lead to?
Advanced English will help you with all your academic studies but particularly:
• VCE Literature
• VCE English
Why study Adventure Sport?
This subject will develop students' awareness of outdoor recreational activities and provide an introduction to VET Sport and Recreation and VCE that can be undertaken in year 11 and 12. Adventure Sport will provide students with a range of challenging pursuits that will take them out of their comfort zone, enabling them to gain an understanding of the difference between 'real' and 'perceived' fear. This subject is suited to students who like to physically challenge themselves and are interested in camping and outdoor recreational activities.

Description
Adventure Sport includes theoretical and practical components to provide students with the opportunity to explore a range of outdoor activities. It covers a range of safety issues associated with different outdoor environments and looks at how these issues are addressed in the practical setting. In this unit students are required to participate in rock climbing and abseiling and other outdoor activities. Such activities may include: bushwalking, hiking, surfing, swimming, water safety, bike riding, and ocean kayaking. Students who choose to undertake this course must participate extensively in all practical and theoretical components and attend the Adventure Sport Camp.

Students will need to apply for this elective because of the nature of the subject and the limited places that are available. Application forms are available in your Subject Selection folder.

Assessment
Assessment will take the form of practical and theoretical components. Demonstration of achievement will be based on performance and skill competency, participation and application, attitude and attendance, and theoretical submission of work. Students must participate in a three day camp as part of their assessment.

Where does Adventure Sport lead to?
This subject exposes students to a range of outdoor activities that are accessible to students outside of school. This subject would be ideal for any student wanting the following careers; Adventure Company Operator, Camp Leader and Administrator, Outdoor Education Teacher and many more.
Why study Sports Science?
This subject is ideal for students wanting to undertake VCE Physical Education, or wanting to improve their own performance in sport. Sports Science will provide fundamental understandings that will enable students to have a solid base of knowledge required in VCE Physical Education. The study prepares students for such fields as biomechanics, coaching science, human movement, nursing or physiotherapy.

Description
This subject will look at a range of biomechanical principles and health science concepts that affect sports performance. Sports Science provides students with the opportunity to explore the systems of the body responsible for movement and how they can impact on the sporting outcomes of elite athletes. Students who undertake this course are required to participate extensively in all practical and theoretical components.

Assessment
Assessment will take the form of practical and theoretical components. Demonstration of achievement will be based on completion of practical activities, laboratory tasks, written research tasks and end of unit exam.

Where does Sports Science lead to?
This subject exposes students to a range of concepts required for success in VCE Physical Education. This subject would be ideal for any student considering the following careers; Fitness Instructor, Health, Physical or Coaching Sciences, Physiotherapy, Physical Education Teacher and many more.
Why study a Taste for Business, Accounting and Economics?
A Taste for Business will give an insight into the different areas involved in the world of business. You may want to go on to further business or commerce studies, run your own business or just know a bit more about how the business world and the economy works.

Description
In this elective, students are exposed to a broad knowledge of the Australian economy including the mechanics underlying its operation and the issues affecting it externally. Students will also develop skills of economic analysis and interpretation. The unit will examine how financial records are kept and their importance in a business. Students will investigate the world of small business and what it takes to start a small or micro business and how to stay competitive and profitable by putting together a business plan. A Taste of Business, Accounting and Economics serves as an introduction to the VCE Business subjects. These are Business Management and Accounting.

Assessment
The assessment will be by a range of methods:
- a team project
- oral and written reports
- participation in practical activities

Where does a Taste of Business, Accounting and Economics lead to?
This subject can leads to any other Business Studies or career in the areas of:
- Economics
- Business Management
- Accounting
Why study The Legal Studies Elective?
Studying Legal Studies will enable students to gain an insight into how the legal system is structured, how laws are made and what our rights and responsibilities are as active citizens in the law making process. At almost every aspect of our lives is governed by rules and regulations, this will be an empowering study that will better equip students to become an engaged member of our community.

Description
In this elective students will increase their awareness of the key elements of democracy and investigate the framework of the legal system in Australia. Students will explore the roles and responsibilities of courts at state and federal level and understand how these establish and protect the rights and responsibilities of Australian citizens.

Students are given the opportunity to discuss topics such as why we have laws, how they are made and why laws change. Students will investigate criminal law, defences and sanctions as well as civil and human rights.

Assessment
The assessment will be by a range of methods:
- Structural questions
- Case studies
- Oral presentation
- Class debate
- Examination

Where does this elective lead to?
- This elective will enable students to gain an understanding of the legal system and therefore opt to pursue Legal Studies at VCE.
History – American History- 1865 – 1965
Students who enjoy studying history have the option to study history for a whole year by choosing this additional history subject.

Most of us think we know a lot about America from its films and songs. However, how much do we really know about its history? This subject examines American society through these years, exploring the intertwined themes of slavery, freedom and growth. The first part of the course focuses on the consequences of the existence of slavery in a free society, looking at the Reconstruction era and the impact of the 14th and 15th Amendments. The second part examines the dynamics and consequences of growth. Topics include the reasons for the 1920s boom, immigration, prohibition, the Dustbowl, the Great Depression and the New Deal. The third part covers the 1950s and 1960s in the US, looks at the Kennedy and Johnson presidencies and the Civil Rights Movement.

Description
- In American History you will examine various topics. These may include:
- What was life like for African Americans after slavery?
- What were the Jim Crow laws?
- Why did the US ‘boom’ in the 1920s?
- Why was the sale of alcohol illegal in the US for fourteen years?
- Who were the Oakies?
- What was Roosevelt’s New Deal?
- Who was the better president? Kennedy or Johnson?
- How did Civil Rights leaders differ from one another?
- Martin Luther King – Saint or Sinner?

Assessment
There are three requirements for History Elective

1. Document analysis
2. Research assignment
3. Regular to short medium answer questions

What does American History lead to?
Studying history can help you in a variety of subject areas at VCE level, English, Legal Studies, Economics, Global Politics and History.
**Why study Philosophy?**

Philosophy, in its broadest capacity, is a term relating to the study of the meaning and justification of beliefs about many interesting areas, including knowledge and existence. This subject will specifically enable students to gain an insight into how to carefully form critical questions, problems, arguments and possible solutions about a range of topics that are considered in Philosophy. Students will therefore develop their inquiry skills and become better equipped to discuss philosophical topics and engage as inquisitive members of society.

**Description**

In this elective students will increase their awareness of the key principles of Philosophy and investigate key ideas. Students will explore these ideas from both historical and contemporary perspectives.

Students are given the opportunity to discuss and form arguments about topics such as: What is knowledge (epistemology), Are we real (materialism), Are the mind and body separate entities (dualism), What is society and religion, and what is Logic. Famous philosophers including Plato and Descartes will also be considered in investigating thought experiments and other key philosophical ideas.

**Assessment**

The assessment will be by a range of methods:

- Multimedia presentation
- Essay
- Investigation task
- Examination

**Where does this elective lead to?**

This elective will enable students to gain an understanding of many enhanced skills covered in VCE English and VCE Humanities subjects.
Why study Geography?
Geography is both science and arts and is the study of the earth as our home. The world is a complex mosaic of places, and the problems facing us are equally complex. Study geography because it provides a window into the complexity of our world, and it is only by thinking through complexity that we can successfully act to shape the world that is our home.

Description
If you love the great outdoors and want to experience Geography outside of the classroom then this the perfect subject for you. Our unit on Travel and Tourism investigates a range of topics such as sport tourism, ecotourism, and authentic experiences in exotic locations. We will visit popular tourist sites in Melbourne, such as the MCG and Eureka Tower. We investigate coastal environments, completing fieldwork at various coastal locations around Port Phillip Bay. We look at the physical geography of coasts including the natural processes and human activities which affect these areas. In addition, we examine human elements such as the development and the management of areas such as Noosa and other popular tourist destinations.

Assessment
Three assessment tasks for Geography:

1. Field report
2. Research assignment
3. Mapping task

Where does Geography lead to?
You can choose to continue studying Geography Units 1-4 as part of your VCE. You can also study geography at university level which can lead to careers in urban planning, cartography, environmental management, climate specialist or community development.
Why study LOTE (Indonesian)?

Language learning makes the world much smaller; when linked with the new information highway the world becomes one giant classroom providing:

- the chance to experience another culture
- the chance to communicate with people from other countries
- the chance to travel
- the chance to pursue a wide range of career options
- a greater understanding of English and how to use it
- the added bonus of an increment ATAR score

Indonesian offers all of this and more!

In Year 10 Indonesian, the focus will be on using a number of exciting and innovative themes and activities to consolidate and develop written language skills and oral confidence and proficiency. Language classes will be augmented by cultural activities that will develop knowledge and understanding of Indonesia as a unique country. This will prepare you well to continue your language studies into VCE.

Description
The course will cover a number of topics using a TV program as the means of showcasing your knowledge and understanding. The topics will include Indonesian as a tourist destination, celebrations, music and life in Indonesia. There will be excursions and in school activities. You will have a set text & work book, Kenalilah 2, which will cover work for the next three years, as well as use of internet sites.

Assessment
Your assessment tasks will include some negotiated tasks, as well as set written, oral and aural tasks. A key aspect of this course is ensuring student confidence in using Indonesian in a variety of activities. It is expected that you will participate in the oral competition, Sayembara Lisan, run by the Indonesian Language Teachers’ Association.

Where does Indonesian lead to?

- Prerequisite subject for VCE Indonesian
- Languages are increasingly important for employment and for providing pathways & options
- Increased trade and interactions within global world make a second or third language vital
- The relevance of Indonesian to careers in a variety of professions, including law, teaching, the defence forces, medicine, and social work
- The increased importance of Indonesia to Australia’s economic and political future
- Chance to further develop awareness & understanding of other cultures, societies, peoples and their patterns of thinking
- Development of communication skills, lateral thinking problem solving
- Innumerable study options at tertiary institutions
Why study LOTE (Italian)?
Language learning makes the world much smaller; when linked with the new information highway the world becomes one giant classroom providing:

• the chance to experience another culture
• the chance to communicate with people from other countries
• the chance to travel
• the chance to pursue a wide range of career options
• a greater understanding of English and how to use it
• the added bonus of an increment ATAR score

Italian offers all of this and more!

In Year 10 Italian, the focus will be on using a number of exciting and innovating themes and activities to consolidate and develop written language skills and oral confidence and proficiency. Language classes will be augmented by cultural activities that will develop knowledge and understanding of Italy as a unique country. This will prepare you well to continue your language studies into VCE.

Description
The Year 10 Italian course encourages students to demonstrate comprehension of facts and opinions drawn from topics of interest. Language and context are drawn from teenage experience of travel, living arrangements, leisure, film and work including themes and events of general interest. Students will be asked to provide factual information and manipulate language to express personal meaning in short conversations, role-plays and oral reports, as well as in the written context such as reports, written dialogues and extended responses.

Assessment
Written Work: This includes all major written tasks and homework.
Oral Work: This includes group role-play presentations, dialogue, and general interaction with peers and teacher in the target language.
Formative Assessment/Test: These are short, quick tests that are applied at least once a semester in test conditions. As well as, formative assessment tasks that serve to monitor the on-going learning process and informs future instructions/learning.

Where does Italian lead to?
• Preparation for VCE studies
• Languages are increasingly important for employment and for providing pathways and options
• Increased trade and interaction within global world makes a second and third language vital.
• The personal benefits of studying another language – communication skills, lateral thinking, problem solving, and the awareness of other societies and their pattern of thinking.
• The relevance of Italian to careers in a variety of professions, including teaching, law, medicine and Social Work.

Student Comment
To study a language is one thing, to experience its culture along with the language is totally another. I fully understood this within the first few hours of being in Italy on the Italy Study Tour. Studying Italian has not only taught me a new language and exposed me to a new way of thinking and living, it has also improved my understanding of all languages and other subjects I study, be it English, Maths or Sciences. Athulya Jancy-Benny
**Why study Drama and the Theatre?**

Year 10 Drama enables you to practically develop the performance and technical skills necessary to stage a full theatrical production. These skills will be very valuable if you go on to study Drama in VCE or after school, or even if you just want to develop and increase your confidence in presenting yourself to other people. In addition, you will experience an enormous sense of achievement by rehearsing and performing a play. Live theatre has a powerful effect upon an audience and they will never forget the performance that you prepare for them.

**Description**

Initially, you will develop your theatrical skills in all areas of stagecraft through a series of workshops. These will cover acting; direction; lighting; sound; costume; set design; publicity; and production. Then using a pre-existing or group devised script, each student will take on an acting and production role as the class rehearses a full performance. You will also develop your own individual project with your new stagecraft skills. This project will involve assisting in another performance or presentation that is happening in the school. Finally, it will involve you and the whole group in the production, rehearsal and final performance of a play.

**Assessment**

You will be assessed through a variety of methods:

- practical completion of workshops.
- Completion of the character building and rehearsal process.
- completion of acting and stagecraft roles for the final production.
- documentation of various tasks and roles in a stagecraft folio.

Assessment will cover:

**Theatrical Skills**

Involving practical and theoretical workshops to develop your skills in production; direction; acting; set design; costume; lighting; sound; and publicity.

**Individual Project**

Involving assisting in a performance project outside of class. It may take the form of being involved in school assemblies; other performances around the school or with your other classes; in liturgies etc.

**Play Production**

This will involve a play being chosen, rehearsed and finally performed. You will each take a number of roles in the development of the production, but you will specialise in one area.

**Where does Drama and the Theatre lead to?**

Studying Drama at year 10 is highly recommended if you want to study VCE Drama. It allows students to gain valuable performance experience that can be directly utilised when completing VCE units in Drama. It also develops performance skills that would be valuable for VCE Music and organisational skills that would assist you in all your studies. It allows for many avenues of specialization and can lead to exciting careers in the Arts and Entertainment industries, and would also assist in areas such as hospitality and tourism. All work completed in this unit is valuable evidence of your performance experience when applying for tertiary courses.
**MUSIC PERFORMANCE**

**Why study Music performance?**
Following on from the strong interest in music performance in Years 7-9 this a great subject if you are thinking about taking Music Performance in VCE. It gives you the opportunity to extend your performance skills, try your hand at group and solo performance. It will also give you a taste of other outcome areas in VCE Music Performance, such as listening analysis, musicianship and performance techniques.

**Description of the subject**
In this subject you will work in a range of different performance groups, as well as having the opportunity to rehearse and perform as a soloist. You may be even able to try a new instrument! Students work to support and extend each other. You will also learn to plan a rehearsal, and start working with scales, technical work, and sight-reading.

As well as performance you will start working with a new way of listening to and analysing music, with a focus on how the song aims to make the listener feel, and how the composer and/or performer achieves this through the way the music is composed or played.

In addition, you will continue to extend your skills in musicianship. You will start to work with compound time, minor keys, chord progressions, and so on.

There are other miscellaneous activities that we undertake, depending on the interests of the group. You might try your hand at improvising using blues or jazz, write a song that includes chords as well as lyrics, and so on. There are many possibilities and opportunities for you to focus on a particular interest, or try something new!

**Assessment**

**Performance**
- Regular Performance Forums throughout the semester. This is where your pieces will be performed, and feed-back given in written form or in a master class style atmosphere. There is also the opportunity to perform in the Performing Arts Senior Showcase toward the end of the semester, to which you can invite family and friends.

**Listening**
- This will be assessed in a number of small tasks conducted throughout the semester.

**Musicianship Skills & Listening Analysis**
- These will be assessed in the end of semester examination.

**Where does Music Performance lead to?**
Music Performance leads directly into VCE Music Performance. It also leads to an enhanced performance life outside of school. It is a great preparation for TAFE or University Music. Experience in music performance is valued in all arts-related careers, such as production, recording, artist/event management, arts-administration, radio, and many more!
**Why study Media?**
Fast communication in a variety of forms is a vital part of our lives. Whether using a phone, web cam, or digital video camera, more and more people regularly use video to communicate. Year 10 Media enables you to gain valuable skills in the fast growing area of video production by teaching you how to produce effective videos. Skills that will be very valuable in VCE Media and can also help lead to exciting careers in the media industry.

**Description**
You can expect to develop pre-production, production and post-production knowledge and skills. This would include the following areas: concept development; storyboarding; scripting; camera techniques; lighting; sound; editing; marketing/publicity. You will develop the fundamental practical skills required to create a video production from conception to exhibition. In order to extend your skills in production, you will also examine a range of professionally produced media products (eg. films and television programs) to stimulate a variety of ideas for production. You will need to provide a good quality blank media to record your production and there may be an excursion to view professional media productions.

**Assessment**
1. **Production skill exercises**
   Over the duration of the course you will be gaining and developing new skills. Your use and application of these skills will be monitored throughout the course.
   These skills include –
   - Scriptwriting
   - Storyboarding
   - Codes and conventions
   - Camera operation
   - Editing techniques

2. **Analytical responses**
   You will use you new insight into the planning and creation of videos to analyse and evaluate a professional video.

3. **Video Production**
   Using the production skills you have developed you will plan, create and evaluate a video.
   This will involve the completion of:
   - A production diary
   - A finished video
   - A self evaluation form

**Where does Media lead to?**
It is highly recommended that students considering studying VCE Media complete the Year 10 Media elective. Beyond VCE, there are an ever-increasing number of courses being offered that directly relate to VCE Media. These range from film-making courses to journalism; from multi-media to sociology. Career opportunities cover all aspects of the creative industries of radio, television, marketing and promotion, new media, media policy, film, higher education, teaching, magazines, advertising, publishing and multi-media production.
Why study Time To Dance?
Dance has existed as a vital part of every known culture throughout time. It exists today in many forms and is performed for a variety of purposes in many different contexts. Year 10 Dance provides an opportunity to become a part of this rich history. It gives you the chance to formally study Dance either for the first time or to extend your previous studies in Dance. The subject will allow you to explore how the body can be used as the means of expression to communicate our culture and our society. It will also help prepare you to go on to study Dance in VCE.

Description
The basis of the study centres on the three practices of performance, composition and appreciation of dance as works of art. You will learn principles of movement and stylised techniques and the physical skills to realise these in performance. You will also develop and express your creativity, imagination and individuality through the composition of your own dance pieces. In addition to this, you will also examine the work of other dancers, which will help you to understand, appreciate and ultimately use various ideas and techniques that have been developed. Safe dance practice is embedded throughout all practical activities to ensure that students are able to maintain safe, healthy and rewarding lives.

The class may also attend a professional dance performance.

Assessment
You will be assessed through a variety of methods:

- Practical completion of dance workshops.
- Performance to develop and demonstrate dance technique.
- Dance Composition.
- Analysis of the role of dance in our wider society.

Dance Skills and Techniques
You will cover the fundamentals of classical ballet and modern dance techniques to acquire appropriate strength, flexibility, coordination, endurance and skills, including a working knowledge of basic physiology as it relates to the dancer to ensure safe dance practices.

Dance Composition
You will use transition, repetition, variation and contrast to manipulate the elements of dance as you explore, devise, select, refine and structure dance pieces in a personal response to various stimuli to communicate ideas.

Dance Appreciation
You will observe and describe performances, compositions and dance works of art (professional choreography intended to be performed for an audience) through the elements of dance, reinforcing your own dance performance and composition.

Where does the subject lead to?
Studying Dance at Year 10 is highly recommended if you want to study VCE Dance. It allows students to gain valuable dance skills and performance experience that can be directly utilised when completing VCE units in Dance. It also develops organisational skills that would assist you in all your studies. It allows for many avenues of specialization and can lead to exciting careers in the Arts and Entertainment industries, and would also assist in areas such as Education, Health Sciences, and Sport and Recreation. All work completed in this unit is valuable evidence of your dance experience when applying for tertiary courses.
Extension Chemistry / Physics Investigation
This science elective is designed to build upon the knowledge gained in the Advanced Science unit. Students will be given the opportunity to conduct their own investigation into the areas of Chemistry and Physics. The idea is that this will emulate the world of a scientist beyond school. Each student will follow scientific theory and end up producing a mini thesis. It is also the introduction to Physics which is very helpful for students who may want to have Physics in VCE.

Students may choose areas such as:
Chemistry: Periodic Table, Formation of Compounds, particle view of matter, compounds of carbon and hydrogen and their naming
Physics: Light and Sound, motion and energy
Or any other area of their interest.

Consumer Science / Living Sustainably
*Key science components: Biology, Chemistry, Environmental and Psychology.*

In the first part of this unit students will investigate the chemical make-up of foods and products and looks at whether what is on the label is what we actually get. This unit also looks at how producers and advertisers manipulate our buying habits and use known psychological tendencies to influence our buying habits.

In the second part of this unit students will investigate the impact of consumer goods on the environment including production and waste management. They will design investigations to test various products for their cost effectiveness, their carbon footprint and safety aspects.

Students wishing to pursue Biology and not looking at completing Unit 1 and 2 are encouraged to look at Sport Science elective which is located in the Health and PE section of the hand book.

Assessment
Assessment varies within each unit due to the nature of the content. Practical reports and assignment work along with completion of class exercises are common to all units. There is also an examination at the end of each semester for all subjects studied during the year.

Where does Science lead to?
Science at Year 10 leads to a more informed choice for science units at VCE and also provides students with general knowledge which is useful in many areas of everyday life.
**FOOD AND TECHNOLOGY**

**Why study Food and Technology?**
This subject is a valuable introduction to VCE Food and Technology. The theoretical and practical skills taught in this subject will act as an introduction to Unit 1 VCE Food and Technology. For students who intend on taking VCE Food and Technology, this subject will teach you valuable skills for use throughout your life. This subject focuses on looking at design briefs, learning food preparation techniques and carrying out investigations of food properties.

**Description**
Food and Technology is about understanding the characteristics of food and its uses in food preparation. Hygiene and safety in food preparation will be studied, as well as looking at the Australian standards in packaging and labelling. It also focuses on the design, production and evaluation of food products.

The areas of study include:
- Food preparation techniques
- Food hygiene and safety
- Food packaging
- Food labelling

Students will learn about the role of quality and control standards, including those of the Australia Standards. Food and Technology enables students to work independently and safely, using a range of complex equipment and techniques to produce food products. Furthermore, students will also analyse food products with reference to specific criteria and explain the effectiveness of the products.

**Assessment**
- **Practical productions** - Students produce a range of different products throughout the unit to improve their practical skills.
- **Evaluation reports** - Students complete a number of evaluation reports throughout the unit based on the food products being produced.
- **Packaging & labelling** - Students use the Australian Standards for packaging and labelling to design, produce and evaluate a packaging suitable for a food product.
- **Theory** - Students complete theory on a range of different topics, eg: hygiene and safety, packaging and labelling.

**Where does Food and Technology lead to?**
Studying the Food and Technology elective at Year 10 will enable students to gain valuable life skills which can be used everyday. It is highly recommended that students who want to study Food and Technology Unit 1 and 2 complete the Year 10 Food and Technology elective to develop skills and confidence. Food and Technology can lead to many career paths such as Hospitality, Food Technology, Product Development and Teaching. Students are encouraged to seek more information from universities, TAFE colleges, private providers and/or the Careers coordinator for further career options.
Why study Woodwork?
If you are interested in designing, problem-solving, working with materials and tools, woodwork could be the subject for you. Students are able to design a production piece and make it using tools and machinery. Students learn new techniques and develop existing skills learnt in Years 7-9.

Description
Students write a design brief/s which looks at the social, contextual, economic, legal, ergonomic and aesthetic considerations of a client. Following this, students research materials, styles and techniques prior to brainstorming a range of designs suited to the design brief specifications. Initial visualisation thumbnail sketches are developed to refinement stage and presented to the client. To ensure correct dimensions students produce a scaled orthogonal drawing (2 dimensional drawing of a three dimensional object) and a cutting list.

Once the planning stage is completed students begin the production stage which is recorded using a weekly journal. The journal records the process, time taken, materials needed and safety precautions.

Additionally, students investigate different timbers, their origins and the process taken to create workable timber. Career opportunities in the wood industry are also researched by looking at the current job guide and different product designers.

Students are required to pay for some timber/materials used to produce construction pieces, and should have a plastic display book to store designs and handouts.

Assessment
The following criteria is used to assess work completed over a semester:

- Write a Design Brief
- Develop designs which address the Design Brief Considerations
- Produce Instrumental drawings
- Cut and join timber using the appropriate tools and techniques
- Use finishing techniques to present the finished construction piece
- Investigate materials and career opportunities
- Evaluate the product and personal performance

Where does Woodwork lead to?
This unit prepares you for

- Product Design and Technology subjects
- VCE Studio Arts Subjects
- VCE Visual Communication and Design
- Carpentry
- Furniture Design
- Industrial Design
- Architecture
Why study Fashion Design & Technology - Textiles
In this unit students undertake the role of a designer. This role enables the students to be problem
solvers and to come up with creative solutions to design issues. They use a variety of skills and both
critical and creative thinking practises. They look at the world around them for creative inspiration and
use the design process to incorporate these ideas into their own work. A garment is created using a
range of sewing techniques, fabric manipulation and decorative techniques. Students complete a folio
to accompany their garment including the design brief and various types of fashion illustration to show
their ideas and understanding of the sewing processes. Students are encouraged to research a wide
variety of fashion and design movements to help them develop their own style and creative flair for
fashion and design. This unit is a great opportunity to prepare and acquire the skills and knowledge
required for VCE Product Design and Technology.

Description
In this unit students will acquire skills in fashion illustration, garment construction, pattern tracing and
cutting, and fabric decoration. A design brief and production timeline are used to plan and record
progress as the garment is made. Students learn how to design and create a garment for a specified
purpose. The folio shows the response to the design brief and a variety of design options for the client
and records the construction processes of the garment. A range of tools and processes are used
safely and effectively to create a final garment.

Assessment

Design Folio
Students will complete a folio which addresses a design problem. This will include following the
design process in the creation and realisation of a final product.

Final Product
Students will create a final product that meets the needs of a specific client and the design brief.

Fibres and Fabrics Research
Students will explore and investigate how to manipulate fabrics through a range of trials. Students will
study the properties and uses of a range of fibres and fabrics.

Where does Fashion Design and Technology lead to?
This subject will form a good basis for further study when undertaking VCE studies in Product Design
and Technology – Textiles Units 1, 2, 3 & 4, or in preparation for undertaking VCE studies in Studio
Arts with focus of textiles sculpture and/or installation. All work in this unit can give students a head
start in developing a folio for any design or art tertiary or TAFE course.
Why study Gaming and Computer Programming?

The need to be proficient and skilled users of technology as part of everyday living and learning is now accepted without question. However the vast majority of people are consumers of technology and not producers. That is, while most of us are comfortable using different forms of technology, not many of us can use technology to design and develop the digital platforms all people will be using into the future. Underpinning these digital platforms is the skill of coding, the language that drives the technology that has become part of our everyday lives.

“Coding is the literacy of the 21st Century and every young Australian should be able to read and write the global language of the digital age. Coding powers our digital world, making coders the architects and builders of the digital age.” (Bill Shorten, May 2015)

Description

This unit begins to equip students with the knowledge and skills to be discerning users of digital systems, data and information and to develop the basic skills that contribute to the creation of digital solutions. The unit will be underpinned by four key concepts: approaches to problem-solving, data and information, digital systems and interactions and impact.

A variety of programs will be used to help you develop your programing skills, and write code for a game. This will help develop your problem solving skills as you learn to debug your own coding.

Assessment

Assessment involves the application of the Technology Design Cycle to inquire and analyze, develop ideas, create and evaluate.

As this unit is currently being developed the detail of specific assessment pieces is currently unavailable.

Where does Gaming and Computer Programming lead to?

Studying this elective at Year 10 is highly recommended for students who want to study VCE Computing Units 1 and 2. This elective will also give students a pathway to further studies in areas such as computer science, information systems, business, systems engineering, robotics, linguistics, logistics, database management and software development, and to careers in digital-technologies based areas such as information architecture, web design, business analysis and project management.
PHOTOGRAPHY

Why study Photography?
Photography is a very powerful medium. It can take us to places and give us the opportunity to share visual images that we may never get a chance to experience. We live in a very visual world and photography plays an important role in many industry areas including the media, retail, medical/scientific, travel, fashion and advertising, just to name a few. It allows for many avenues of specialization and can lead to an exciting career in the art and design area.

Description
Year 10 Photography focuses on students becoming more independent in their approach to exploring, developing and refining ideas and images for a folio of photographic artworks. Students will experiment with traditional darkroom and digital techniques to explore the potential of photography.
The main areas of study include: The exploring and developing ideas. An introduction to digital and analogue photography and a folio of finished photographic artworks. Students will also analyse and interpret photographic artworks.

Assessment.
Folio
Students will experiment and develop ideas for a folio of photographic artworks. Analogue and digital techniques will be explored.
Artworks
Students will present a series of photographic artworks based on ideas/themes. These will be either digital or analogue.

Artwork Analysis.
Students will analyse and interpret photographic artworks.

Where does Photography lead to?
Studying Photography at year 10 is highly recommended if you want to study VCE Photography (Art) Units 1 and 2. This elective will allow students to gain experience in developing ideas in preparation for a VCE folio. Photography also overlaps into the other art and design subjects like Studio Arts and Visual Communication. It allows for many avenues of specialization and can lead to an exciting career in the Art & Design area. All work completed in this unit can be included in a folio for tertiary courses in Art and Design.
Why study Studio Arts?
Art is much more than just an image that people admire for its beauty. Art has been used by artists to
tell us about our history, to transmit powerful social, environmental and political issues. Art is
sometimes controversial and also reflects personal experiences. It allows for many avenues of
specialization and can lead to an exciting career in the art and design area.

Description
Year 10 Studio Arts allows students to experiment with traditional and contemporary techniques and
processes and explore the potential of a range of media in different studio forms. Studio forms
covered include the following: drawing, painting, mixed media, collage, photography, and printing.
Students become more independent in their approach to exploring, developing and refining ideas and
images for a folio of finished artworks.
The main areas of study include: The design process to explore and develop ideas and a folio of
finished artworks. Students will also analyse and interpret artworks and look at the role of art in
different cultural contexts.
Students intending to study Studio Arts will be expected to buy an art kit.

Assessment.
Folio
Students will experiment with traditional and contemporary techniques and processes to develop
ideas for a folio of artworks.
Artworks
Students create a range of artworks that is called a folio. The folio will contain artworks from different
studio forms.
Artwork Analysis.
Students will analyse and interpret artworks and look at the role of art in different cultural contexts.

Where does Studio Arts lead to?
Studying Studio Arts at year 10 is highly recommended if you want to study VCE Studio Arts Units 1
and 2. This elective will allow students to gain experience in developing ideas in preparation for a
VCE folio. Studio Arts also overlaps into the other art and design subjects like Art (Photography) and
Visual Communication. It allows for many avenues of specialization and can lead to an exciting
career in the art and design area. All work completed in this unit can be included in a folio for tertiary
courses in art and design.
**Why study Visual Communication and Design?**
This is a great unit for developing skills in problem-solving, following the design process, showing your ability to evaluate and refine ideas, and improving your ability to document your ideas in a visually appealing ways. The skills and processes learned in this unit are useful in careers like graphic design, fine art, multimedia, fashion design, web design, and product design.

**Description**
This unit is about communicating ideas visually, and being able to get ideas across clearly whether on paper, as models, or as computer imagery. Skills covered include rendering, instrumental drawing, computer manipulation of images and the use of type. Students are also advised in the layout and organisation of folios for maximum effect.

By completing this study, students develop the skills needed to successfully produce projects for any VCE design or folio-based subject. Students follow the design process, creating a folio and refine and produce work which can be used in tertiary and employment interviews where a folio of work is considered.

It is recommended that students complete this unit as a preparation for the folio design process used in Units 1 to 4 of VCE Visual Communication and Design and other design based units such as Product Design and Technology (Textiles or Wood), Studio Arts, Art, and even Media students.

**Assessment**
Students complete a folio of work which will include skill development exercises and Design Brief tasks, which use the design process for a client. There are 2 major projects in this semester-long unit. In addition, students complete a series of analysis tasks over the course of the semester.
**APPLIED LEARNING PROGRAM**

**Why study Applied Learning?**
At Marian College we believe in providing personalised learning pathways for every student, increasing engagement and providing opportunities for success for all of our students. We recognise that the current Year 10 Program does not suit all of our students and, as a consequence, we have developed the Marian Year 10 Applied Learning Program which was successfully implemented in 2015.

**Description**
This program would suit hands-on learners who are considering a VCAL (Victorian Certificate of Applied Learning) Pathway for Years 11 and 12, who are not planning direct entry to university. It would be most suitable for students who are considering an apprenticeship, traineeship, TAFE course or entry to the workplace.

Students may gain some credit towards the Foundation VCAL in Year 10, as well as credit towards one or more VET Certificates. A VCE Pathway may still be available for students in Years 11 and 12; however, subject choices would be limited.

In the Year 10 Marian Applied Learning Program, 2016, students would complete the following units/subjects.

<table>
<thead>
<tr>
<th>Units/Subjects</th>
<th>Number of Periods per Cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religious Education</td>
<td>4</td>
</tr>
<tr>
<td>Pastoral Care</td>
<td>2</td>
</tr>
<tr>
<td>Foundation English</td>
<td>6</td>
</tr>
<tr>
<td>Foundation Numeracy</td>
<td>6</td>
</tr>
<tr>
<td>Personal Development Skills</td>
<td>6</td>
</tr>
<tr>
<td>Marian VET/Work Related Skills</td>
<td>6</td>
</tr>
<tr>
<td>Physical Education</td>
<td>4</td>
</tr>
<tr>
<td>Electives (2) – selected from general Year 10 Elective Program. Students may choose a VET Certificate (subject to approval)</td>
<td>6 each semester</td>
</tr>
</tbody>
</table>

**What do I do now?**
If students are interested in the Year 10 Marian Applied Learning Program they should:

1. Complete an Applied Learning Expression of Interest Form and submit it to the box outside the Learning and Teaching Office.
2. Students and their parents will then be contacted to arrange an interview with a Marian College staff member. This interview will provide you with the opportunity to discuss and plan your personalised program.
3. Complete your Web Preferences Online