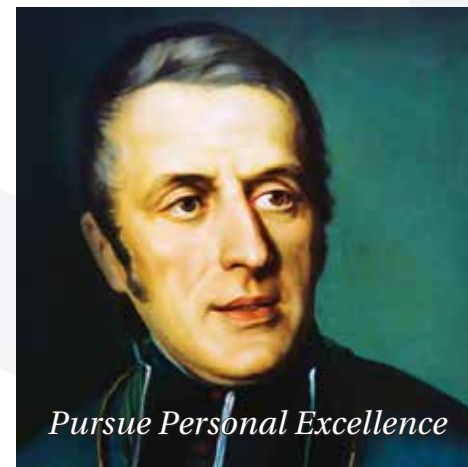




MAZENOD  
COLLEGE



## OPTIONS SELECTION INFORMATION for YEAR 10, 2019.

### Introduction

In Year 10, all students study English, Maths, Science, Humanities and Social Sciences, Religious Education and Physical and Health Education as part of their curriculum. In conjunction with these compulsory subjects, students are able to choose option subjects that provide opportunities for them to develop their talents in a wide variety of areas.

When choosing options for Year 10, please bear in mind that some options are important because of their academic content and prerequisite knowledge and skills for Year 11.

When selecting options it is also important to take into account student's ability, skills and interests.



## **OPTIONS SELECTION PROCESS**

Option selections are completed online.

By the end of Week 5 of Term 3, parents will receive an email providing the details required for making selections.

Please bear in mind that the possible combinations of majors and minors that students can do in Year 10 are:

**4 minors (4 different subjects)**

**2 minors and 1 major (3 different subjects)**

**2 majors (2 different subjects)**

The following pages outline the option subjects available along with a brief description to assist with understanding what each option involves.

	<b>MAJORS (Whole year subjects)</b>		<b>MINORS (1 Semester subjects)</b>
	Art		Art
	Commerce		Commerce
	Computer Programming		Computer Programming
	Design		Design
	Digital Technology		Digital Technology
	Drama		Drama
	Electronic Engineering		Electronic Engineering
	Metalwork		Media Studies
	Music		Metalwork
	Sports Science		Music
	Woodwork		Outdoor Ed
			Specialised PE
			Woodwork
	Industry & Enterprise Program		
	I & E Certificate   Construction		



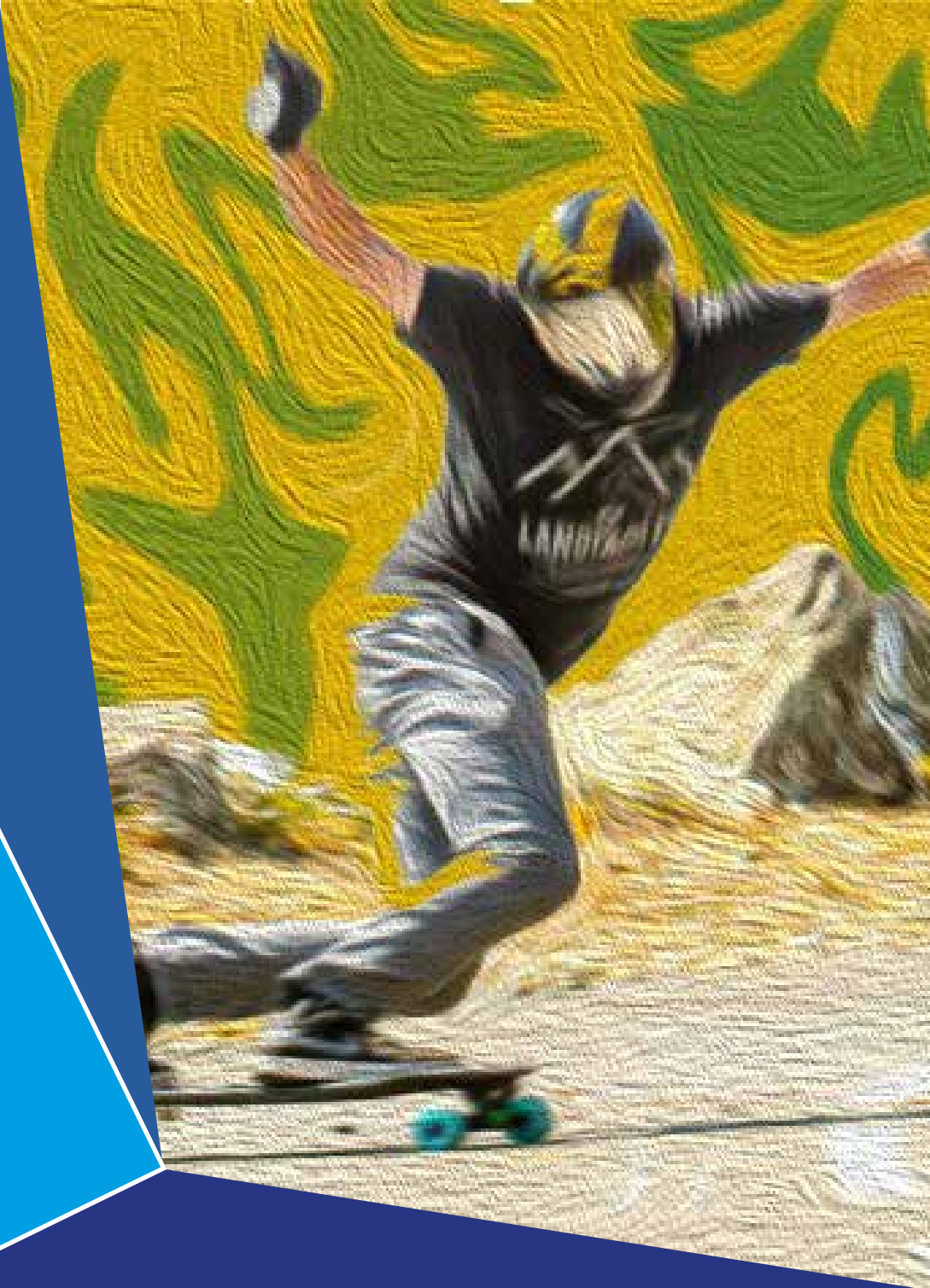
## Option Descriptions

### Art (Major/Minor)

Year 10 Art will build upon ideas and skills learnt in Years 8 and 9. Students choosing either course will require some degree of drawing competency to cope with the level expected.

In both the 'major' and 'minor' courses, Art appreciation is covered in preparation for the Year 11 Art courses however, the emphasis is on the development of practical skills, encouraging creative thinking and the production of original works of art.

Students will complete projects in the areas of sculpture, printmaking, graphics and painting, whilst developing practical skills in using a variety of advanced media, including digital 'image manipulation' software.





## Commerce (Major/Minor)

The course aims to provide a detailed study of both small and large business. Students are challenged to become entrepreneurs and to use technology to create innovative business solutions.

Topics include: Ethics, Investment, Commercial Law, Marketing, Product/service Research and Development, Introduction to Accounting, Financial Modelling, Management Decision Making and Taxation. Students prepare a comprehensive business plan, income tax returns and Business Activity Statements (GST). They should become highly proficient in Excel. Competitions include CPA Plan Your Own Business and ASX Sharemarket Game.

Studying Commerce should assist students who intend to study Economics in Years 11 and 12, a Certificate II in Business or pursue a business career.





## Computer Programming (Major/Minor)

The Computer Programming course allows students to develop knowledge, understanding and fundamental programming skills integral in the 21st Century. As the use of digital technology in our lives increases, it is a valuable skill to be able to interact with and create programs for devices such as computers, smart phones and future technologies. Through this course, students develop an appreciation of what can be built with technology and explore algorithmic processes and thinking to create digital solutions.

During the course of the year students will have the opportunity to explore solving problems by creating digital solutions including, but not limited to software applications, mobile apps and websites. These solutions will involve programming, networking and databases. While students create these digital solutions, they will continue to develop and implement project management skills and endeavour to create solutions that will appeal to a target audience with relevant user interfaces and features.



## **Design (Major/Minor)**

This course is designed to further expand the knowledge and skills learnt in Years 8 and 9. Students revisit Computer Aided Design through a number of different software applications such as Autodesk Inventor, ArchiCAD, and 2D Design to design their own products and design solutions. Students will then test their designs through manufacture by making use of 3D printers, 3-D Modelling and VR software, and Laser Cutters. Emphasis is placed on the technical correctness of drawings together with the overall visual impact as a graphic communication of a solution to a drawing problem.



## **Digital Technology (Major/Minor)**

This course is designed to meet the needs of those students who are interested in Design, Programming and Multimedia Authoring. It is recommended for those students who wish to choose Computer Science, Applied Information Technology or Design courses in Years 11 and 12. Students will gain experience in graphic and website design, programming, audio and video editing and image manipulation. Students will improve their understanding of Networks, Databases and Programming theory. The Year 10 course is intended to cover the knowledge and skills covered in the upper school courses. Previous experience in Year 9 IT is not required.

Students will also continue to develop their skills in design theory and project management in the process of creating digital solutions. Data security, personal privacy and digital citizenship are also important aspects of living in the 21st century, and these are also covered in this course.





## **Drama (Major/Minor)**

This course builds on skills introduced in previous years but is open to committed and enthusiastic new students. It will provide a firm background for further study in the areas of production, performance and design as well as adequately preparing you for Drama in Year 11.

There will be an introduction to analysing a play for performance and students will also extend skills in improvisation, scripted drama and technical theatre. Students will have a number of public performance opportunities throughout the year including: The Lunchtime Plays, the Catholic Schools Performing Arts Festival and Ensemble Evenings.

While the emphasis is on practical workshops and performance work, theoretical work begins to play a fundamental role in providing students with a deeper knowledge and understanding of their drama works and processes. A practical exam is included in first semester, and students sit a written exam in second semester.



### **Electronic Engineering (Minor)**

The content and assessment of this course is equally divided between theory and practical work. Students need no prerequisites, however those who have studied Year 9 Electronics would have an advantage. Theory in the course includes electrical safety, electronic principles, understanding and recognition of components, calculations in resistance, capacitance and circuit laws. Students will be required to investigate needs, opportunities and problems that are defined in a design brief. They devise a solution that considers factors such as function, environment, materials, components and parts. As part of this process students will be introduced to elements of design and the use of computer aided drafting (CAD) software. Practical work involves the construction of transistor and integrated circuitry on manufactured printed circuit board.





### **Metalwork (Major/Minor)**

This course is designed to encourage students to expand their knowledge of metalworking practices and to extend them to design, develop and construct projects. The course also expands their knowledge of machine tools and specialised metalworking equipment as well as developing an understanding of visual and working drawings and the use of basic computer aided drafting (CAD). The course is designed to provide the solid foundation vital for those students who are looking to take on the Certificate II in Engineering Pathways (Metals) in Years 11 and 12.





### **Media Studies (Minor)**

In Year 10 Media Studies, students explore ways media works are constructed to challenge values of audiences in different contexts. Students will need to consider the way changes in media technology and consumption impact a modern-day audience. Media students will make their own productions and respond to professional media work within selected media types and genres.

Year 10 Media Studies is only a minor option but, will continue to refine student's media production skills and processes, problem solving, and working as part of a team. Production teams will be expected to follow group timelines, and learn skills and processes to use media equipment safely and responsibly.



## **Music (Major/Minor)**

This course has its focus on musicianship, composition, performance, digital music technology and production skills such as recording, promotion and stage management.

Project assessments include composing music to media, remixing, recording individual and group performances, and developing music industry vocational skills. The study of these areas will culminate in a professional CD recording of student devised performance work. Students are involved in all elements of the CD project – CD cover design, music composition, CD recording performance, and input into the studio mixing and track mastering.

Students will utilise software such as Mixcraft, Logic Pro and Ableton Live. This course is designed to give students an insight into the practical and vocational elements of the music industry.

Due to the performance aspect of this course, it is essential that students who take this option also learn a musical instrument, either privately or through the College.

Students are also encouraged to play an active role in the department at performances throughout the year in the various college ensembles and bands, to enable them to be eligible for the next Visual and Performing Arts Tour.



## **Sports Science (Major)**

Sports Science provides students with an opportunity to develop the practical skills and strategies, and to explore these in contexts similar to those studies in Years 11 and 12 Physical Education Studies.

The practical component links the human body systems to the sporting movements required in Badminton. Practical assessment is based on skill development, execution and technique.

Students examine the functional anatomy of the human body. Structure and function of the skeletal and muscular systems are studied to explain how the human body creates movement.





## Outdoor Ed (Minor)

This course educates students about the environment, in the environment and for the environment. This course will allow students to explore topics that are essential to interacting in their environment such as navigation, orienteering, bush survival, first aid, minimal impact, hiking, camping, kayaking, mountain biking and rock climbing.

Outdoor Education is about learning life skills which are facilitated in the outdoors and the learning objectives of this course include: developing teamwork skills, decision making and problem solving skills, improving communication, instilling leadership qualities, and fostering initiative and resourcefulness.



### **Specialised PE (Minor)**

This practical course is offered to students who enjoy HPE and want to further develop their skills and strategies. A variety of sports are covered. Students are given the opportunity to improve their skills and understanding of the methods to improve performance. A combination of invasion/evasion sports are explored, and the ability to transfer tactics and strategies from one context to the next is the major focus. Practical performance in a selected sport forms the basis for student assessment in this course.





## **Woodwork (Major/Minor)**

This course is designed to encourage students to expand their knowledge of woodworking practices and to extend them to design, develop and construct projects. The course also extends student's knowledge of various machines and specialised woodworking equipment as well as developing an understanding of visual and working drawings, and the use of basic computer aided drafting (CAD). Before choosing to study Woodwork in Year 10 students should be aware that this course is the foundation for the Materials Design and Technology (General) Woodwork course in Year 11. It is strongly recommended that any student who wishes to study the subject in Year 11 should opt for it as a major option in Year 10.

Although it is not a prerequisite, the evidence clearly shows that it is advantageous to have completed the Year 10 course prior to taking this subject in Year 11 and 12.





## **Industry and Enterprise Program (I & E Program)**

The Industry and Enterprise Program is a VET program designed to assist students with aspirations for a career in the trades and provide a transition through school into further education and training.

Entry to the program is by invitation and invitation letters will be sent home during week 5 of Term 3. However, if you would like your son to be considered for this program please contact Mr Buselich.

Students choosing to be part of this program need to select "Industry & Enterprise Program" as their first option and "I&E - Certificate I Construction" as their second option.

As part of the Industry and Enterprise Program, students will be doing Woodwork, Metalwork and Design, along with other construction activities.