



**XAVIER**  
COLLEGE

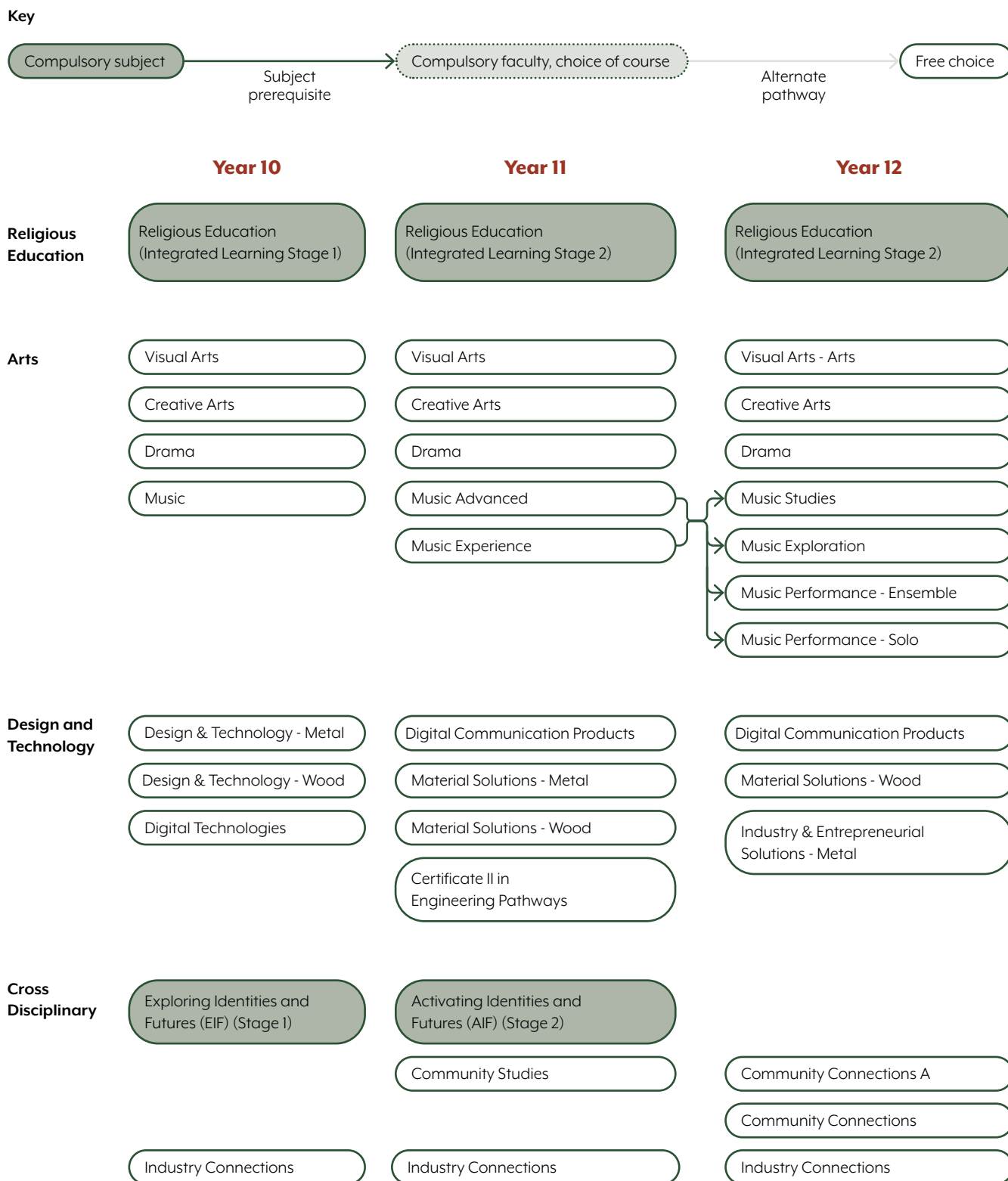
**GAWLER BELT CAMPUS**

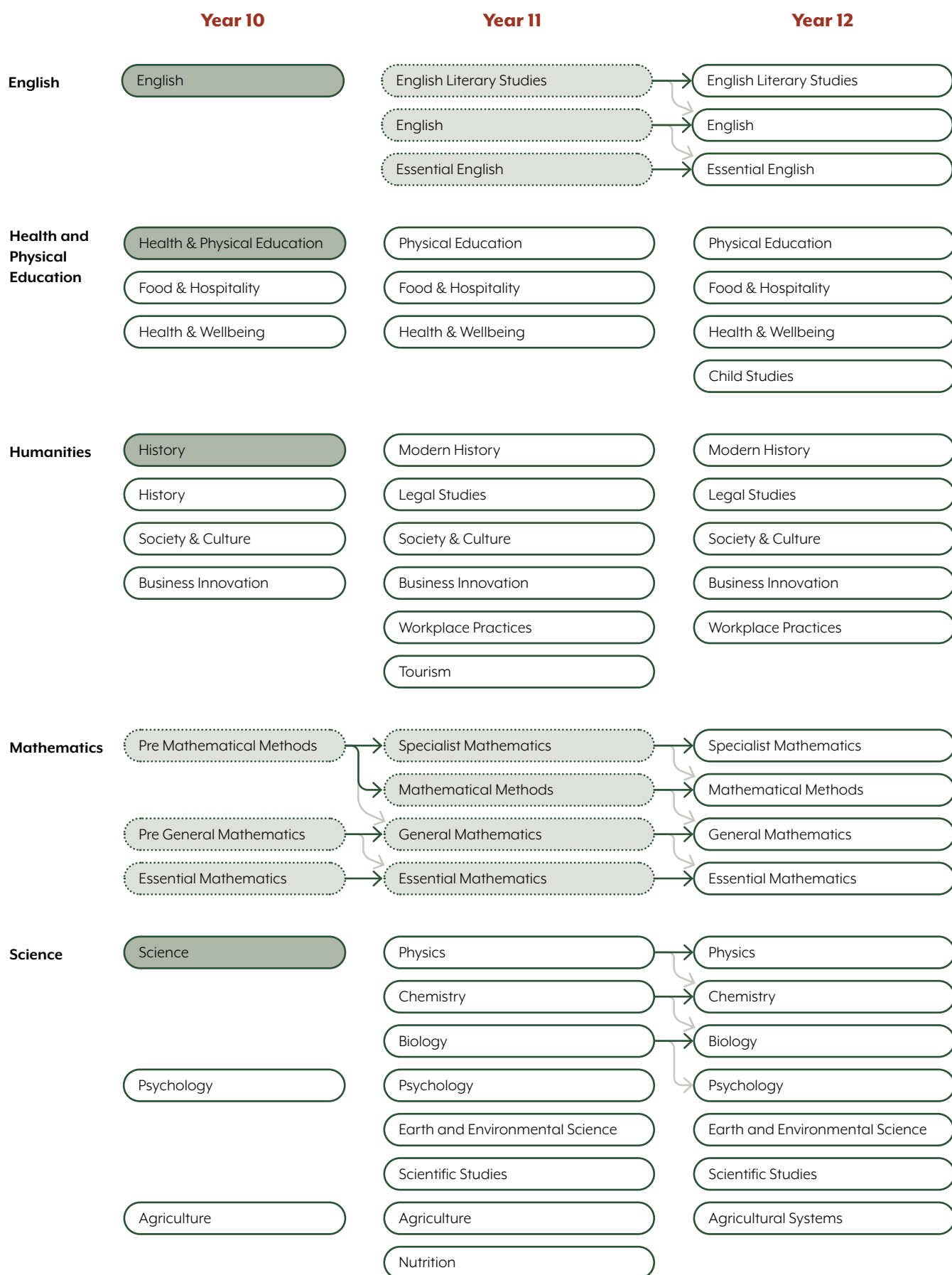
# *Year 10 Subject Handbook*

A CATHOLIC CO-EDUCATIONAL COLLEGE  
*Educating in the Salesian Tradition*

# Year 10-12 Pathways

The following tables shows pathways from year 10 to year 12 including prerequisites for some subjects.





# Instructions for elective selections

In addition to the compulsory subjects of Religious Education, Activating Identities and Futures, English, Mathematics, Science, History and Health and Physical Education, Year 10 students select 3 elective units from various learning areas to be studied for one semester each.

The brief subject descriptions in this handbook will help you in making your choices.

Students are required to choose a **total of 5 units** which includes **3 preferred units plus 2 reserve units**. Each unit runs for one semester.

| Subject Areas                  |   |
|--------------------------------|---|
| The Arts                       | Creative Arts, Drama, Music, and Visual Arts                            |
| Technologies                   | Design and Technologies, Digital Technologies, and Food and Hospitality |
| Humanities and Social Sciences | Economics and Business, History, and Civics and Citizenship             |
| Health and PE                  | Health and Wellbeing, and Physical Education                            |
| Languages                      | Italian   |
| Science                        | Agriculture and Psychology  |

## Selecting Mathematics units

Students will study Mathematics for a full year and are required to choose from either Pre-Mathematical Methods or Pre-General Mathematics. Please see the Mathematics section for further information.

# The Arts

## Creative Arts

Unleash your creativity! Investigate the way creative people work in a world that is increasingly visual, dynamic and constantly changing. Develop a 'product' of your choice utilising the skills you have developed. Products can include jewellery making, fashion, advertising, websites, calendar design, posters, artworks, film, dance, animation, game design. The list is only limited by your imagination! Develop skills in photography like using an SLR camera and editing using software such as Photoshop and Lightroom. Photography is a great skill to learn and underpins many activities done in the arts area.

## Drama

Delve into improvisation skills and live performances! You will learn about how to perform physical comedy in the style of 'Commedia del' Arte' and how to think quickly with theatre sports. Then, as is Xavier tradition, you will learn about the different types of clowns and write a script that ends in a hilarious, colourful and crazy 'clowning around' performance.

## Music A

Music from the Movies: Explore film music by listening to the greatest movie soundtracks. Use music technology to create your own soundtrack to movie clips. Continue developing practical music making skills by performing as a soloist and/or member of ensembles.

## Music B

The artistry of a musician. Students will learn about the theory and history of contemporary music of the 20th century and how this influences some contemporary artists. Students will explore their own artistry and how they can bring their unique sound to the music they perform and compose. Students will apply this to a solo and ensemble context in preparation for stage 1 and 2.

## Visual Arts

Become an Artist! Express yourself by using Art as a powerful communication tool. Investigate the ways artists are influenced by society and use visual symbols to communicate the issues and attitudes of the world around them. Inspired by the influential modern art movements, you will aim to develop skills using a wide variety of media such as drawing, painting, sculpture, digital media and photography, to produce personal artworks. Creativity takes courage, are you ready to be brave?

# Technologies

## Digital Technologies

Students will learn to code in the C programming language, build and program robots, and use digital tools to solve problems to real-world problems. Through practical projects, they will explore how software and hardware interact, applying computational thinking and design skills to create functional robotic systems.

## Design & Technologies A

Students will acquire specialised woodwork skills and techniques allowing them to create a customised small cabinet that may incorporate a number of technologies such as the CNC router (computer-controlled cutting machine) and Laser Cutter.

## Design & Technologies B

Students will acquire specialised metal work skills and techniques with an emphasis on hand tools, MIG welding, metal fabrication, metal machining, CNC plasma cutting and power tool usage.

## Food and Hospitality

You will have the opportunity to explore the topics of 'Food Preservation', 'Cooking Methods', 'People in need, the need for food' and 'Australian Cuisine', completing research and design tasks as well as undertaking practical work. You will also select and create recipes which you choose yourselves, working both collaboratively and individually.

# Humanities and Social Sciences

## Civics and Citizenship

Explore a range of issues facing the globe and how people can work to solve them. Investigate how war and conflict impact people through mapping small- and large-scale conflicts and gain an insight into how these conflicts can profoundly change a region forever. Investigate Australia's assistance of developing nations and produce a real-world plan to support one of Australia's neighbouring countries with aid donations.

## Economics and Business

Students begin to develop the knowledge, skills, and understandings to engage in business and economics in the modern world. Students analyse financial and business information and develop and extend their financial awareness. They present their findings about financing a product or expense of their choice. Students are challenged to think creatively and develop solutions to industry specific real-world problems while prototyping their ideas and pitching and presenting these in a Gallery Walk attended by local community leaders. Students will develop their skills in preparation for the exciting Stage 1 "Shark Tank" program.

## History

Get ready to explore three powerful chapters of modern history. First, take a closer look at 9/11 and the subsequent War on Terror—what caused it, what happened, and how it changed the world. Then, learn about Aung San Suu Kyi and her fight for democracy in Myanmar. Finally, dive into the story of apartheid in South Africa—how it began, how people stood up against it, and how the country worked towards equality. This subject will help you understand the key events, people, and ideas that continue to shape the world we live in today.

# Health and Physical Education

## Physical Education

You will undertake a variety of practical sessions, developing fitness and sport specific skills and tactics. Theoretical concepts including the process of learning physical skills, how biomechanics affects performance and the influence of group dynamics on performance and participation will be explored. You will apply theoretical knowledge to practical situations, developing a deeper understanding and extending your communication and collaborative skills.

## Health and Wellbeing

Students will build practical knowledge and skills to make informed decisions about their own health and wellbeing. The course explores how personal choices, relationships, and community factors shape health outcomes, both locally and globally. Through interactive activities, discussions, and group projects, students learn to become positive influencers—developing confidence, empathy, and advocacy skills. They will also examine contemporary health issues, consider ethical perspectives, and work collaboratively to promote wellbeing for themselves and others.

# Science

## Agriculture

Students will study foundational concepts in plant and animal science as well as exploring the role of technology in agriculture. Practical skills in plant cultivation will be employed in a variety of investigations. Students will develop an overview of the state of agriculture in Australia as well as considering the role and responsibilities of primary producers in society.

## Psychology

Are magicians really that magical, or are they actually masters of focusing our attention? Just because a witness is confident that they remember 'the truth' about an event, are our memories always reliable? How do high performing people stay motivated? In this subject, students will engage with three powerful aspects of psychology - attention, memory and motivation – as well as developing fundamental skills and knowledge to prepare for SACE Psychology.

# Mathematics

In senior school mathematics you can choose from a variety of different mathematics courses, which are designed to prepare you for different future pathways. To ensure you build the appropriate skills in readiness for Year 11, the Year 10 courses have been structured to reflect senior school options. You need to choose one of the following mathematics options:

## Pre-Mathematical Methods

If you love Maths and are interested in pursuing pathways in mathematical sciences, engineering or physical sciences, then this is the course for you! You will start the course studying measurement, trigonometry and linear relationships and then move onto studying statistics and quadratic and other non-linear relationships. You will develop your understanding of sophisticated algebraic processes, mathematical modelling and developing and testing of conjectures.

## Pre-General Mathematics

If you are more interested in understanding how you can more effectively apply your mathematical skills in ways that apply to practical problems, then this is the course for you. You will begin the course similarly to the Pre-Methods course and study measurement, trigonometry and linear relationships and then move onto statistics, exponential functions and networks, with a problem-based approach that focuses on mathematical modelling.

As the content in these subjects differs in Semester 2, it is important that you choose the correct course that suits you and your interests. Please be aware that your choice will impact your choices in Year 11. For example, if you choose Pre-general Mathematics, you can only choose General or Essential Mathematics in Year 11. Please see the flow chart below.

