



TRINITY COLLEGE

# Year 10 Handbook 2021



TRINITY AVENUE, EAST PERTH, WESTERN AUSTRALIA

[www.trinity.wa.edu.au](http://www.trinity.wa.edu.au)

## INTRODUCTION

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Trinity College has its origins in Christian Brothers' College, St George's Terrace, Perth founded by Bishop Mathew Gibney and Brother Ambrose Treacy in 1894. From the beginning, both boarders and day students were enrolled, but as the business section of the city expanded, the site became increasingly unsuitable for a boarding school. In 1938, the boarders were transferred to Mount Henry, Manning, to found Aquinas College.

Christian Brothers' College continued as a day school until 1961 when the buildings and land were purchased by the Perth City Council. The College was then transferred to its present location in 1962, and renamed Trinity College.

In 1968 Trinity became a member of the Public Schools' Association of Western Australia.

Trinity College endeavours to provide a distinctly Catholic environment where the students can form a truly Christian character and where students, parents and teachers can meet in an atmosphere of mutual concern and respect.

## CURRICULUM OVERVIEW

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The College aims at high standards of academic excellence. The curriculum gives attention to Religious Education, English, Mathematics, Languages and Communication, Art, Drama, Music, Design and Technology, Health and Physical Education, Information Technology, Science, and Humanities. Students are challenged to give of their best, to show a genuine interest in their chosen fields of study, and to develop the power of self-motivation through work in the library, the laboratories and the Art and Music Studios.

Please note that the majority of elective subjects are delivered as semester length programmes. However, a range of elective subjects will be studied as full year programmes in 2021. These include Computer Science, Drama, Music, Italian, and Design and Technology. It is proposed that the elective courses listed in this handbook will be offered in 2021 if sufficient students enrol in each course. A student's final choice may be restricted by unavoidable clashes in timetabling or resource restriction.

Finally, the Year 10 curriculum also includes a full-year Personal Development and Wellness programme. This programme addresses areas such as: Christian Service; Career Education; Communication & Conflict Resolution; Driver Education; Laptop program; Mental Health & Resilience, Study Skills and Health Education.

Although this book has been primarily addressed to students, it has also been written for parents. We hope that, as a family, you will go through the material together so that decisions are made as a family group.

At Trinity College Year 10 students study a number of compulsory or core subjects and have an excellent range of elective subjects from which to choose. The combination of core and elective subjects provide for the interests and academic needs of all students.

## CORE SUBJECTS:

CORE SUBJECTS		
Religious Education	Health and Physical	Mathematics
English	Humanities	Science

## ELECTIVE SUBJECTS:

The majority of elective subjects are delivered as semester programmes, however, as indicated some elective subjects are delivered as full year programmes and studied for the duration of the academic year. Students are to select a maximum of six elective subjects (three per semester) for Year 10.

**NOTE: Students that are undertaking a full-year elective subject are not to undertake its equivalent as a semester program.**

YEAR - LENGTH	
Art – Year Long	Italian
Computer Science ATAR (by invitation)	Materials, Design & Technology
Design Technical Graphics	Music
Drama Studies	Powering Careers in Energy (Chevron Aust.)
FLEX – Gifted & Talented (by invitation)	Specialist Art
SEMESTER - LENGTH	
3D Art (Sculpture)	Game Design
Accounting & Finance	Materials Technology
Applied Info Technology	Maths Problem Solving & Competition
Aquatics	Media
Art	Mock Trials (Semester 1 only)
Astronomy & Space Science	Outdoor Education
Creative Writing	Product Design
Dance	Programming with Robotics
Debating & Public Speaking	Sports Science
Design Graphics	Stencil Art
Digital Photography & Photoshop	Strength & Conditioning
Drama	Systems & Engineering
Drones in Aviation	The Renaissance and Beyond
Fine Art (Drawing & Painting)	

## PERSONAL DEVELOPMENT AND WELLNESS

In addition to the above students will participate in a Personal Development and Wellness programme. This program addresses areas such as: Christian Service; Career Education; Communication & Conflict Resolution; Driver Education; Laptop programme; Mental Health & Resilience and Study Skills and Health Education.

# CORE SUBJECTS

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## RELIGIOUS EDUCATION

The Religious Education programme develops students' knowledge and understanding of the life of Jesus and its impact on generations, and the essential components of celebrating and living the Catholic tradition.

The Religious Education learning area focuses on the knowledge and understanding of the Gospel as it is handed on by the Catholic Church to those who follow Christ in today's world. The content and processes of the learning area are intended to ensure that students, through a process of cultural, systematic and critical reflection, learn the teachings of the Gospels and understand what it means to be a Christian and how Christians live their lives.

In Year 10 students learn the Christian values that Jesus taught and how these values can be lived by Christians today. They investigate the Christian vocation and recognise what is taught about the need to discover personal vocation. They outline the historical spread of the Catholic Church across the world.

The College follows the Archdiocesan Religious Education programmes as mandated by the Bishops. The four units studied over the course of the year are:

### Vocation – called to be and become

This unit presents the following key learning points:

- What is a 'vocation'?
- Challenges to discovering personal vocation
- The Christian vocation
- Christians are called to share in the mission of Jesus
- Marriage is a vocation
- Ministerial priesthood is a vocation
- Religious life is a vocation

### Restoring God's justice in the World

- God created in people
- Human injustice in the world
- Jesus came to restore God's justice
- Jesus restores justice in people's hearts
- Christ calls Christians to promote social justice
- The Church promotes social justice

### Recognising God's call through conscience

- Alone with God
- Making judgments of conscience
- The four principles of conscience
- Challenges to recognizing the voice of conscience
- Jesus promised the Holy Spirit to guide conscience
- The growth of the Church
- The renewal of the Church through the Holy Spirit

### The search for freedom

- The human desire for freedom
- How can people know if their choices are morally good?

- Responsible choices can be challenging
- God begins to restore human freedom
- God revealed the Old Law
- Jesus gave the New Law for salvation
- The New Law of true freedom
- The Sacraments

## ENGLISH

In 2020 Year 10 English will offer three courses. Students are directed into the most appropriate course as a result of their performance in Year 9.

### English Course 1 (Literature)

English Course 1 is designed to provide a challenging and stimulating environment for the most capable students of English. Students will be selected and invited to enrol in this course by the Head of English Learning Area. It introduces a number of important literary theories in conjunction with the study of classic literary texts. The course will give students a tremendous opportunity to extend their reading and writing skills. It is designed to enhance the enjoyment of literature, as well as give students – whether they go on to study English or Literature in Year 11 – an introduction to tertiary-minded post-compulsory courses.

### English Course 2

English Course 2 has been designed to extend all students regardless of their level of ability. The course encompasses the learning skills and objectives that come with viewing, reading, writing, listening and speaking. Throughout the year, students will study a range of text types, typically; short stories, novel, film, advertisements and feature articles, with a particular focus on the ideas and issues communicated in these texts and the various techniques employed.

The course is a diverse and challenging one that gives all boys an opportunity to develop their English skills and knowledge in a supportive and invigorating environment. This subject provides a valuable introduction for tertiary-minded students.

### English Course 3

English Course 3 is specifically designed for boys identified as needing extra assistance in English. It will closely mirror the style and structure of English Course 2, but will run at a pace more in keeping with the individual abilities and ambitions of each student in the class. It will also offer differentiated tasks to suit their learning styles. Students in this course usually progress to General English and further vocational studies in Year 11.

The course aims to provide a supportive and motivating learning environment for English students as well as those who simply need extra help in reaching their potential.

## HEALTH AND PHYSICAL EDUCATION

In Year 10, the content provides students with the opportunity to begin to focus on issues that affect the wider community. They study external influences on health decisions and evaluate their impact on personal identity and the health of the broader community. Students continue to develop and refine communication techniques to enhance interactions with others, and apply analytical skills to scrutinise health messages in a range of contexts.

In continuing to improve performance, students transfer learned specialised movement skills with increasing proficiency and success across a variety of contexts. They use feedback to

improve their own and others' performance with greater consistency, and critically evaluate movement responses based on the outcome of previous performances. Through the application of biomechanical principles to analyse movement, students broaden their understanding of optimal techniques necessary for enhanced athletic performance.

Students self-assess their own and others' leadership styles and apply problem-solving approaches to motivate participation and contribute to effective team relationships. They are also provided with opportunities to assume direct control of physical activities in coaching, coordinating or officiating roles.

The Health and Physical Education curriculum provides opportunities for students to develop, enhance and exhibit attitudes and values that promote a healthy lifestyle.

## HUMANITIES

Year 10 Humanities is delivered within two courses, i.e. **Humanities Course 1 / 2** (mainstream), and **Humanities Course 3**. Students are directed into the appropriate course as a result of their performance in Year 9. Both courses study the same topics; however assessments and the pace at which the study is undertaken will be modified to suit the learning needs of students in Humanities Course 3.

Humanities develops students' understanding of how individual and groups live together and interact with their environment. Students develop a respect for cultural heritage and a commitment to social justice, the democratic process and ecological sustainability.

Particular emphasis is placed on the development of literacy, thinking skills and the application of Information and Communication Technology.

Year 10 Humanities provides students with the opportunity to study concepts and issues relating to Year 11 and 12 Economics, Modern History, Politics and Law and Geography. By the end of the year, students will have developed the necessary background to enable them to study any of the Humanities courses offered in Year 11. A range of assessment instruments are used including assignments, information technology items, oral presentations, tests, essays and examinations.

The Economics course will focus on the issues of markets, income flows and will touch on the basics of the important macroeconomic topics of unemployment and inflation as well as looking at the effects and possible solutions for these problems.

The Politics and Law course will focus on the establishment of the Commonwealth Parliament as well as explore the role of political parties, pressure groups and the High Court. Students will also study the role that Australia plays in the global community through its work with the United Nations.

The Modern History course picks up with the causes of the Second World War. Students will understand that there was a war in Europe and a war in the Pacific. Special focus will be on the impacts of war on the Australian home front. This unit will finish with a study of the rise of protest movements as a result of the Second World War.

The Geography course is a varied and dynamic course which contains two five week blocks of work. Students will complete units on climate change and how people live in different parts of the world. Students will look at these issues from a cause and effect perspective.

## MATHEMATICS

Year 10 Mathematics is delivered within four courses. We will cover topics specified in the Australian Curriculum, namely: Number and Algebra, Measurement and Geometry, Statistics and Probability. Students are directed into the appropriate streamed course as a result of their performance in Year 9. The progress of all boys is continually monitored and re-streaming will occur where performance warrants it.

The use of interactive computer software programmes and CAS calculators will be an integral part of the 1a and 1b course.

### [Mathematics Course 1a and Mathematics Course 1b](#)

These courses are designed to prepare students for the senior secondary ATAR Mathematics courses. Maths 1a is designed for our most capable students including those who require extension work. In Year 11 these students will typically study Mathematical Methods and the very able will study Mathematical Specialist as well. Maths 1b focuses on the same curriculum without the extension material. Students in 1b will typically go on to study Mathematical Applications.

### [Mathematics Course 2](#)

Maths 2 is designed to focus on content similar to Maths 1a and Maths 1b at a lower level. The course is designed to prepare students to study Mathematics Applications in Year 11. However only those students able to achieve an A or B grade in Course 2 are considered mathematically able enough to study Mathematical Applications. Those students not able to achieve a high enough grade will typically study Mathematics Essential in Year 11.

### [Mathematics Course 3](#)

*This course will prepare students for the study of Mathematics Essentials General in Year 11.* This course provides students with relevant preparation for post-school situations in which Mathematics is needed. The course has been specifically designed for students who require preparation for a wide range of occupations within the community, or tertiary-bound students who do not require mathematics for their intended area of study. Students will cover work in Number and Algebra, Space and Measurement and Chance and Data. Students will be taught decimals, fractions, percentages, ratios, personal budgeting and banking and financial matters in the workplace. They will learn about perimeter, area and volume and gain knowledge in simple probabilities and collecting and interpreting data.

*See Appendix A: Senior Secondary Mathematics Pathways*

For Semester 2, students will be placed into either pre-Specialist, pre-Methods, pre-Applications or pre-Essential classes. While students will still continue the Year 10 courses it will be done at a level of difficulty and content emphasis in preparation for Year 11 courses. We will use the prerequisite cut-offs for the Year 11 courses in allocating students to their Semester 2 class. Some leniency will be made for those students who are reasonably close to the cut-off.

## SCIENCE

In the Year 10 curriculum, students explore the biological, chemical, geological, and physical evidence for different theories, such as the theories of natural selection and the Big Bang. They develop their understanding of atomic theory to understand relationships within the periodic table. They understand that motion and forces are related by applying physical laws.

All disciplines in Year 10 Science (Chemistry, Physics, Biology/Human Biology) are taught by their specialist teachers. In Biology, students explore genetics concepts, with an emphasis on heredity and diseases, and the impact of contemporary trends in this area of scientific research. In Chemistry they develop further understanding of chemical reactions and bonding. In physics, students are exposed to the physics of movement and Newtonian principles. Throughout all the above disciplines Investigating Scientifically is emphasised through practical work.

There are three courses in Year 10 Science. Students are placed into the most appropriate course as a result of their performance in Year 9. At the conclusion of the first semester of Year 10 there is a further opportunity for students to change their course if they satisfy pre-requisites.

#### Science Course 1

This course is designed for capable and highly motivated students who are able to cope with extension of science outcomes. It is particularly suited to students going on to study Science ATAR courses in particular Physics and Chemistry in Year 11 and 12.

#### Science Course 2

Students in course 2, follow the same program and are exposed to the similar content as Course 1, however, at a moderated level, in order to prepare them for the pathways which lead to study science including ATAR courses in Years 11 & 12.

#### Science Course 3

This course provides a more hands-on approach to science for students who are unlikely to progress and select Year 11 and 12 science ATAR courses. At the end of this unit, students who have shown their commitment and interest in the subject which is also reflected by a high standard of performance, can be transferred to study in Course 2. Throughout the year, students explore concepts including Reproduction and Genetics, and Forensic Science which provides insight into the job of a forensic detective and emphasises the scientific method of investigation. They are also exposed to the Automotive Science, emphasising the Physics concept of motion, and general science topics including Environmental Studies concentrating on global issues.

This course, whilst progressing at moderated rate focuses more on the basic core areas of Science and has less extension material, will still be challenging for some students. A prerequisite of an 'A' or a High 'B' grade will be required for entry into Physics and Chemistry in Year 11 for students in this course.

There is an examination at the end of year for students in both Courses 1 and 2 to consolidate and evaluate their learning in all disciplines. Students must achieve an overall average of a 'C' grade in Year 10 Science to enrol in an ATAR science course in Year 11.

## ELECTIVE SUBJECTS - Full Year Length

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The following elective subjects will be taken by students for the duration of the academic year.

### ART – Year Long

The Year 10 Art course is offered as a year-long elective to provide students with an opportunity to further their art education and broaden and develop their knowledge and skills in the Visual Arts. The course is suitable for students with an interest in art and those wishing to develop artistic understanding and competencies for their own growth and fulfilment. The course will assist in building a foundation for those who would like to continue further study in this area in Year 11 and 12.

Students will participate in a range of art activities in a variety of art forms which may include painting, sculpture, ceramics, printmaking, graphics, drawing and installations. Students will use and apply Visual Art language and artistic conventions in the design and production of their artwork. They further develop and refine their ideas and techniques to resolve artwork by documenting the design, production and evaluation processes of their artwork. Students will extend their knowledge of art practices and use their understanding of a variety of art styles in the making of their artwork. Resolved artwork is presented and appraised, with consideration to their own artistic intentions, personal expression, and audience. Students are provided with opportunities to reflect on traditional and contemporary artwork. They develop greater understanding of how contexts of culture, time and place impact on the development of ideas and production of art forms in the artistic process. They continue to explore artistic influences, while being encouraged to express greater individualism in their application of ideas and materials.

**It is highly recommended that students wishing to study ATAR or General courses in Year 11 and 12 undertake this course or the Specialist Art course in Year 10.**

### COMPUTER SCIENCE: ATAR

(Accelerated Pathway - Completing a Year 11 ATAR course in Year 10)

*Minimum prerequisites: Gifted and Talented (by invitation) or completion of Network and Cyber Security Course in Year 9. Pathway: Computer Science – Year 12 ATAR in Year 11.*

Please note, Computer Science runs as two electives over the full year, meaning it is a 4-period elective for the year.

In the Computer Science ATAR Course students explore the fundamental principles, concepts and skills within the field of computing. They learn how to diagnose and solve problems in the course of understanding the building blocks of computing. Students explore the principles related to the analysis and creation of computer and information systems; software development; the connectivity between computers; the management of data; the development of database systems; and the moral and ethical considerations for the development and use of computer systems.

This course provides students with the practical and technical skills that equip them to function effectively in a world where these attributes are vital for employability and daily life in a technological society.

Computer Science is a preferred course for students who are looking to maximize their ATAR result. Students who have sound skills in Mathematics and Problem Solving and an interest in Software or Game Design are well suited for Computer Science.

## DESIGN: TECHNICAL GRAPHICS

**NB** *It is recommended that students wishing to study Design (Technical Graphics) in Years 11 and 12 complete the Design Graphics or Design (Technical Graphics) elective in Year 10.*

Design is an exciting new course which allows a student's creativity to develop within a Technical Graphics context. The focus for these units will mainly be on personal design, allowing student's ideas and concepts to be explored in depth. Students learn to understand that they can visually communicate aspects of their personality, values and beliefs through their choice of artefacts, consumer items, their manipulation of personal surroundings and environments. Students are introduced to communication principles, design elements and principles, design processes, problem solving strategies; concept development and practice and drawing skills and techniques.

Student assignments will be based on community projects such as public space projects, architecture for buildings used by others, product design of universal use and design for need. Students will use a range of computer programs; whilst also being involved in some hands on activities, such as model making. The course provides challenging tasks that will stimulate students to be highly creative and may challenge their personal beliefs on the way objects should appear and operate. Achievement is determined through assessment of course work and through a personal portfolio.

## DRAMA

Students will be given opportunities to develop their knowledge and skills to present drama for purposes and wider external audiences, safely using processes, techniques and conventions of drama. Students develop performance based on devised drama processes and taken from appropriate, published script excerpts, using selected drama forms and styles. Student work in devised and scripted drama is the focus of reflective and responsive processes. In the yearlong Drama course Grotowski's Poor Theatre, Youth Theatre, Theatre of the Absurd, Australian Realism and Physical Theatre through Stage Combat are the main forms and styles of study. Students are encouraged to develop their use of extended answer forms and interviews, using drama terminology, language and different forms of communication, based on their own drama and the drama of others. Students who are contemplating undertaking ATAR Drama in Year 11 should give serious consideration to this yearlong elective.

## ITALIAN

In Year 10 Italian the focus for this course is "Questo Mio Mondo"(Here and Now) and "Cose da Fare, Luoghi da Visitare"(Things to do, Places to go). Both units of work introduce students to the Italian language and culture using a personal perspective, whilst enabling them to share information relating to personal identity, aspects of everyday life and popular culture. Students will begin to develop an understanding of what it means to be "Italian" within Italian -speaking communities and compare their own lives to those of others in Italian -speaking communities. In addition to this students will learn more about Italian -speaking communities and cultures, their sense of space and place and further develop their skills to travel within Italy.

**NB:** Any student wishing to enrol in this course should ideally have completed the Year 9 Italian course with a C grade. This also applies to students of Italian background who speak in the vernacular, as their knowledge of grammar may be below the required standard for Year 10 Italian.

## **MATERIALS DESIGN AND TECHNOLOGY**

Materials Design and Technology is a year-long based subject aimed at further developing the skills and techniques in students whose natural aptitude in this area needs to be challenged. The course is designed for those wishing to continue study in this area moving into Years 11 and 12. It covers a broad range of skills and processes utilizing all that is on offer at Trinity College.

Students learn to apply the technology processes to both create and modify products in order to meet human needs. It is a practical subject aimed at developing an understanding of the nature and properties of materials and how they influence design as they create products and safely operate machinery and equipment in a workshop situation. Students need to gain an understanding about the interrelationship between people, the environment and the use of materials in developing a range of projects sustainable for future generations.

Models consist of three main forms, wood, metal and plastic. In conjunction with freeform manipulation, the use of computer software packages such as Corel Draw X7 in the programming of the latest laser technology is widely used in helping to generate ideas and produce solutions and manage production processes. A variety of tools and equipment are used to create freeform contemporary furniture, intricate wrought iron and metal pieces as well as an introduction to sheet metal development. Along with these, fabrication and machining processes will be utilised along with both gas and electric welding processes.

As student safety is a high priority in all activities, a common understanding of safe work practices, risk management and an awareness of occupational safety and health is mandatory.

**It is highly recommended that students wishing to study General Units 1 through 4 in Year 11 and 12 undertake this course in Year 10.**

## **MUSIC**

Year 10 Music is based on developing skills in listening, reading, composing and performing as well as identifying the characteristics of various musical styles. This includes a study of music through its principal elements of rhythm, melody, harmony, tonality, form, texture and instrumentation, whilst exploring styles from the Baroque to contemporary music. Instrumental and/or vocal performance forms a very practical part of the course. The use of Sibelius notation is integral to the composition component of the course.

Students who participate in one or more of the College performing ensembles would benefit significantly from doing classroom music. Students who have not participated in the Year 8 or Year 9 Music elective should see Dr Braham before doing Year 10 Music. Those intending to do Music in Year 11 are advised to study Music in Year 10. It is very difficult to do ATAR Music if you have not completed Music in Year 10.

As an integral part of this elective there will be a performance focus period allocated in the timetable to concentrate on developing the students' solo performance capabilities. It will involve the following activities:

- Practice techniques
- Performance practice
- Ensemble rehearsal using the class as an ensemble
- One on one and ensemble master-classes

## POWERING CAREERS IN ENERGY PROGRAM

Chevron Australia's Powering Careers in Energy Program is a **one-year course** of work endorsed by the School Curriculum and Standards Authority. Students undertaking this program gain the equivalent of **up to three units** towards their Western Australian Certificate of Education (WACE) upon completion of the course. One unit is equivalent to 5 points. The course is suitable for students who want to pursue pathways through TAFE and University and gain first-hand knowledge about careers in the resources industry. Also, participation in the program may lead to future traineeships and internships with Chevron.

There are four units of work and a unit of off campus activities (a one-day camp)

Unit 1: Introduction to Energy

Unit 2: Science behind LNG

Unit 3: Safety and Environment

Unit 4: Exploring Careers in Energy

Unit 5: LNG Exploration Camp (LNG – Liquefied Natural Gas)

## SPECIALIST ART

This is an intensive practical course with a skills-based focus to provide students with an opportunity to develop skills through art making and engaging in a range of art forms and conventions. Students will be given opportunities to express their imagination, develop personal imagery and problem-solving abilities. This course is suitable for individuals with some artistic talent and those who would like to further develop their knowledge and skills in the area of art. The Specialist Art course would be beneficial for students who wish to pursue studies in an art related vocational area such as architecture. The course will assist in building a foundation for those who would like to pursue a pathway to university or TAFE through further study in Year 11 and 12 (i.e. Visual Arts ATAR or Visual Arts General).

## ELECTIVE SUBJECTS - Semester Length

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### 3D ART

This is an enjoyable practical course which allows students to specialise in the studio area of sculpture. Students will explore creative sculptural activities that encourage personal fulfilment through designing, making and evaluating three dimensional artworks. They will use a variety of sculptural mediums, techniques and technologies to produce artworks and use and adapt visual art language and artistic conventions in the design and production of their artwork. Students will extend their knowledge of art practices and use their understanding of a variety of art styles in the making of their artwork. Resolved artwork is presented and appraised, with consideration to their own artistic intentions, personal expression, and audience.

Students are provided with opportunities to reflect on traditional and contemporary artwork. They develop greater understanding of how contexts of culture, time and place impact on the development of ideas and production of art forms in the artistic process. They continue

to explore artistic influences, while being encouraged to express greater individualism in their application of ideas and materials. This elective will assist students in building their knowledge and skills in preparation for Visual Arts ATAR and General courses in Year 11.

## ACCOUNTING AND FINANCE

Students considering completing Accounting and Finance in Year 11 will be advantaged by completing this Year 10 elective.

The initial focus is **personal finance**. Students are introduced to the concepts, principles and terminology used in financial decision-making and management on a personal basis. They learn about the main institutions that operate in financial markets and how governments and other community bodies can affect the way individuals and groups make financial decisions. Students learn about the main financial documents and reports used in personal financial transactions and decision-making and the systems that facilitate individuals to carry out their financial transactions.

Students also study accounting for **small cash entities**. Students extend their knowledge of the fundamental principles and conventions of accounting and finance to learn how these apply to the establishment and operations of small cash entities

including small incorporated bodies. They learn about the main financial institutions that small cash entities deal with and understand how governments and other community bodies can influence their decision-making processes. Students learn about financial record-keeping on a cash basis for small entities, as well as the main financial documents and reports used in the financial transactions of small incorporated entities. They learn the main issues involved in business decision-making and carry out simple analyses of given information to determine the financial performance and position of a business.

## APPLIED INFORMATION TECHNOLOGY

The development and application of digital technologies impacts most aspects of living and working in our society. Digital technologies have changed how people interact and exchange information. These developments have created new challenges and opportunities in lifestyle, entertainment, education and commerce.

This course aims to prepare students for a future job market which will require a grounding in digital literacy. AIT is a skill based elective that will establish a practical foundation in Digital Media, Internet Technologies, Web Design, Graphics and Animation. Students may learn a variety of software applications including Photoshop, Dreamweaver, Animate and Illustrator.

## AQUATICS

Year 10 Aquatics is an advancement on the skills learned in Years 8 & 9 Aquatics.

The underlying premise is the refining of Aquatic skills for the betterment of others in the community, via coaching, teaching or lifesaving. However, the skills learned in this course will provide a sound basis for Year 11 and 12 Physical Education Studies courses.

The students learn the skills required for their Bronze Medallion qualification through Royal Life Saving Western Australia. These are valuable life skills, and the qualification may also assist the students in gaining meaningful part time or casual employment.

## ART

In the Year 10 Visual Art Course students will participate in a range of art activities in a variety of art forms which may include painting, sculpture, ceramics, printmaking, graphics, drawing and installations. Students will use and apply visual art language and artistic conventions in the design and production of their artwork. They further develop and refine their ideas and techniques to resolve artwork by documenting the design, production and evaluation processes of their artwork. Students will extend their knowledge of art practices and use their understanding of a variety of art styles in the making of their artwork. Resolved artwork is presented and appraised, with consideration to their own artistic intentions, personal expression, and audience. Students are provided with opportunities to reflect on traditional and contemporary artwork. They develop greater understanding of how contexts of culture, time and place impact on the development of ideas and production of art forms in the artistic process. They continue to explore artistic influences, while being encouraged to express greater individualism in their application of ideas and materials. This elective will assist students in building their knowledge and skills in preparation for Visual Arts ATAR and General courses in Year 11.

## ASTRONOMY AND SPACE SCIENCE

This is a hands-on, student-centred, self-paced online elective programme. Modules of study on offer include; The Life & Death of Stars, Cosmology (study of the Universe), Astrobiology (Life beyond Earth), Satellite Remote Sensing and Manned Space Missions. Students will use the College's robotic telescope to acquire astronomical images and perhaps undertake a research project of their choice. The Space Science component includes construction and launching of student designed model rockets using data loggers to understand the parameters of controlled rocket flight.

It is recommended that students have reasonable computing skills.

## CREATIVE WRITING

This course will aim to recognise, harness and develop the creative, expressive and imaginative skills of student writing. Exploring a range of genres and their conventions, the course will enhance students' understanding of the craft of the writer, the use of techniques and conventions, the pitfalls of clichés, and the construction (throughout drafting and editing) of fiction writing. Incorporating prose fiction, poetry, screenwriting and short stories the course will extend students' abilities to express themselves with flair, originality and sophisticated use of language. Although it will be an essential aide to the increasing demands of the Composing section for the WACE English course, Creative Writing is a must for those gifted writers who seek an expressive outlet for their talents

## DANCE

Dance students continue to extend their use of the elements of dance (BEST) and choreographic processes to expand their choreographic intentions in their choreography. They extend their technical dance skills to include style-specific movement skills. Through performance, students continue to work on confidence, accuracy, clarity of movement and projection. They refine their discussion of the use of the elements of dance, choreographic processes and design concepts in their own dance and the dance of others. They investigate dance and influences of the social, cultural and historical contexts in which it exists. Dance genres or styles that may be taught, but are not limited to, include contemporary, ballet, jazz, hip hop, street dance, tap and cultural dance (e.g. Spanish, Indian, Bollywood).

## DEBATING & PUBLIC SPEAKING

Students in this course will develop their skills in both debating and public speaking. Learning the tricks to effective Manner, Matter and Method, students will be given the opportunity to develop their skills in a real world context through participating in debating competitions as well as other public speaking opportunities. This course is not just for students with a passion for debating; it will prove useful for anyone who wants to learn how to work effectively in a team, develop critical thinking and interpersonal skills, learn the power of persuasion and improve their confidence.

## DESIGN GRAPHICS

Design Graphics is a course based around the use of various computer packages aiming to develop an understanding about the diverse values, attitudes, beliefs, processes and behaviour behind the theory of design. The projects incorporate a range of social issues and an environmental awareness in both local and international contexts.

For the first project, students use Adobe Photoshop and Illustrator packages to create a flat pack toy identifying cultural stereotypes. These projects aim to give students an awareness of the environment around them and creatively portray these concepts in a design brief used in the production of a 3D scaled model.

For their major project, students are guided through generating ideas and concepts in the production and evaluation of a transportable disaster relief modules to aid humanitarian efforts in areas of need. Brain storming ideas using detailed sketching and rendering techniques along with 3D prototypes, generated using Google Sketchup are the just a few of the possibilities on offer.

The programs used are of industry standard, and are a good entry point for all architectural and drafting units undertaken at university level. Courses such as architecture, engineering, surveying, interior design, product design, graphics design and marketing are just a few of the avenues that will be possible by undertaking this exciting course.

## DIGITAL PHOTOGRAPHY AND PHOTOSHOP

This subject is a highly practical course that exposes students to advanced digital photography and Photoshop techniques. Students will be required to plan and design creative works by using skills in capturing, editing and publishing digital photographs to a photo gallery in an electronic portfolio themed by the student. Students will utilise iPad's along with Digital SLR's to capture and create their works. Photoshop will be used to apply advanced filters and techniques to enhance the visual impact of their images for a target audience.

## DRAMA

**Note:** *students cannot undertake Drama semester and Drama yearlong elective.*

In Year 10 Drama, students will be given opportunities to further develop their performance skills through voice and movement, using processes, techniques and conventions of drama to present performance work to wider audiences. Students will develop their knowledge and skills in a range of forms and styles including Grotowski's Poor Theatre, Theatre of the Absurd and Stage Combat. Students will also be presented with a range of Australian and world script excerpts to explore, assisting with devised and improvised works and produce

reflective responses in both extended answer form and interviews, using appropriate drama terminology.

## **DRONES IN AVIATION**

This course will focus on recreational drones and model aircraft, the changing laws around flying drones for fun, drone registration, commercial drones, remote pilot licence, remotely piloted aircraft operator's certificate and laws regarding flight safety in Australia. As well as flying FPV (First Person View) drones for competition racing. This course aims to cater for those students seeking further studies in aviation or a career in aviation, science, technology or engineering.

## **FINE ART**

In the Year 10 Fine Art Course students will specialise in the studio areas of drawing and painting. Students will explore creative drawing and painting activities that encourage personal fulfilment through designing, making and evaluating two dimensional artworks. They will use a variety of mediums, techniques and technologies to produce artworks and use and adapt visual art language and artistic conventions in the design and production of their artwork. Students will extend their knowledge of art practices and use their understanding of a variety of art styles in the making of their artwork. Resolved artwork is presented and appraised, with consideration to their own artistic intentions, personal expression and audience.

Students are provided with opportunities to reflect on traditional and contemporary artwork. They develop greater understanding of how contexts of culture, time and place impact on the development of ideas and production of art forms in the artistic process. They continue to explore artistic influences, while being encouraged to express greater individualism in their application of ideas and materials. This elective will assist students in building their knowledge and skills in preparation for Visual Arts ATAR and General courses in Year 11.

## **GAME DESIGN**

In this computer-based game design course students will be exploring a \$70bn a year industry. Through investigation students will learn what makes a challenging game and how simple ideas can be transformed into an innovative and thought-provoking game.

Students will learn through practical application how to analyse a game, critique ethical and legal issues in the gaming industry and how to produce and source audio, 2D and 3D graphics for game production. Students will also investigate the growing VR and AR game industry using the College Oculus Rift VR lab.

The course will focus on project based activities which will cover storyboarding and planning a game through to creating graphics and finally incorporating movement, collisions, scoring, life and health, levels and strategies to their creative games.

## **MATERIALS TECHNOLOGY**

Materials Technology is a semester based unit aimed at further developing the skills and techniques learnt in previous units. Students learn to apply the technology processes to both create and modify products in order to meet human needs. It is a practical subject aimed at developing an understanding of the nature and properties of materials and how they influence design as they create products and safely operate machinery and equipment in a

workshop situation. Students need to gain an understanding about the interrelationship between people, the environment and the use of materials in developing a range of projects sustainable for future generations.

Models consist of three main forms, wood, metal and plastic. In conjunction with freeform manipulation, the use of laser technology is widely used in helping to generate ideas and produce solutions and manage production processes. A variety of tools and equipment are used to create freeform contemporary furniture, intricate wrought iron and metal pieces as well as an introduction to sheet metal development.

As student safety is a high priority in all activities, a common understanding of safe work practices, risk management and an awareness of occupational safety and health is mandatory.

Students wishing to undertake this course are unable to choose the year-long Materials Design and Technology, as some overlap of content exists.

## **MATHEMATICS: PROBLEM SOLVING AND COMPETITION**

This elective has been designed to extend students' ability to solve problems in a computer laboratory environment. Students will be expected to select and use appropriate strategies to solve a variety of problems. Time will be spent on a wide range of mathematical topics which are of interest. Special emphasis in this course will be the use of computers in problem solving.

The elective does not cover specific content of Year 10 mainstream Mathematics but skills learnt will definitely complement the work done in Mathematics classes and be of help for Year 11 and 12 courses.

Students may expect a range of opportunities to enter national and state-wide competitions, use computers, play mathematical games and learn problem solving strategies. This is an enriching and extension elective **not** a supportive elective.

## **MEDIA**

This subject provides students with the opportunity to utilise a range of software applications and hardware devices relevant to the multimedia industry. Students will work with computer generated graphics, video, audio and animation. They will be exposed to the skills and technologies used in the commercial world of video production and editing. Students will record, edit and produce quality video productions of Trinity College events and enter short films competitions.

Film is characterised by decisions about what to include and what to leave out. Through the creation of their own media works, students have opportunities to engage in this production process. Students will be involved in the design, editing and final appearance of the product.

The course will focus on project based activities which will cover storyboarding, design and creation of media production in the students' chosen field. Students will be encouraged to experiment with technologies, structures, codes and conventions to express their ideas and creativity. They have the opportunity to develop competence in production skills and processes in media of their choice and begin to show a development of personal styles.

## MOCK TRIALS (Semester 1 only)

A mock trial is a simulated court case in which teams contest a fictitious legal matter presented in the Western Australia court system. The cases are presented by two teams – a prosecution/plaintiff team and a defence/defendant team – made up of students playing the roles of barristers, solicitors, witnesses and court officials.

The Mock Trial Competition provides an enjoyable, dynamic way of introducing students to the law. It provides students with an opportunity to learn valuable skills in research and in the development and presentation of a persuasive argument.

This semester one elective will see students learn the basics of how criminal and civil trials are run in Western Australia. This course is designed for boys who have an interest in studying law. They will have the opportunity of representing the College in the Sir Francis Burt Mock Trial Competition.

The School Curriculum and Standards Authority (SCSA) has recognised the Competition and approved it as a Community Endorsed Programme from 2019 to 2024. Year 10 students can gain up to 3 WACE units over a 3-year period for their participation in the Competition.

### **Roles in the competition include:**

- 2 barristers
- 1 instructing solicitor
- 2 witnesses
- 1 court orderly (if Prosecution team) or judge's associate (if Defence team)
- Reserves – minimum of two and maximum of six

### **Effective Communication is a focus of the unit and the competition**

- Persuasion in a court of law depends on good communication.

Students must be available for three mock trials against other schools in terms 1 and 2. Mock trials are typically held in the Supreme or District Court buildings in the CBD starting at 6pm and conclude no later than 8pm.

This elective is an excellent introduction to issues studied in Years 11 and 12 Politics and Law.

## OUTDOOR EDUCATION

The Year 10 Outdoor Education programme concentrates on mobility activities and preparing students for wilderness expeditions. Skills taught include roping, rock climbing, and navigation.

Due to the practical nature of the elective it is essential all participants be prepared to be actively involved in all activities in varying and sometimes challenging conditions.

This elective will culminate in a four day expedition for students who receive a satisfactory level of achievement and have good standing around the college.

## PRODUCT DESIGN

## D&T

Product Design is an innovative elective course aimed at exposing students to the latest technology processes. Projects are imaginative and creative, driven solely by the student's desire and passion for new products. Resources available include Corel Draw X7, used in conjunction with the Laser cutting devices and Autodesk Inventor which is a 3D drawing package used to program the latest 3D printers.

A range of materials are used in the construction of prototype models and fully functional products that achieve the aims set forward to them in a Design Brief. This allows the students to experience state of the art designing and manufacturing techniques. Freehand sketching and rendering techniques are also utilised during the design process to complete a presentation folio illustrating ideas generated.

This course also provides a good basis for students to study Design Graphics and Engineering in Years 11 and 12, and further consolidating a good basis for study at University level.

## **PROGRAMMING WITH ROBOTICS**

This course aims to prepare students for a future job market which will require a grounding in digital literacy. Students choosing this course will be exposed to 21st Century automation technologies and develop the skills required to control robots designed and constructed using the latest EV3 Mindstorm Robotic sets. Students learn to program servos, compass, ultrasonic, infrared, light and colour sensors to create truly autonomous robots which interact with their environments. A portion of the course will be devoted to designing and programming a robot to compete in the annual Scitech Robocup Junior Australia Competition.

## **SPORTS SCIENCE**

It is designed for those students who wish to develop a greater understanding of the basic principles underpinning elite level performance in the sporting environment. Students gain knowledge and skills in a practical context that will assist them in planning and leading healthy lifestyles. It will provide an introductory course to provide basic knowledge leading to more in depth study in to Stage 2 AB Physical Education Studies in Year 11. The semester elective would be primarily practically based utilising a range of practical labs and sporting experiences

## **STENCIL ART**

This course effectively provides opportunities for students to express their own identities and ideas through the production of high quality Stencil Art. Students will explore fundamental techniques of stencil making and learn about different stencil materials and selecting and designing images to stencil onto any surface from canvas, board, T-shirts, posters, and more. This course will teach a variety of methods of applying stencils such as aerosol and silk screening. Students will develop an appreciation of their own artwork as well as that of other artists and cultures. This elective may assist students in building their knowledge and skills in preparation for the Visual Arts ATAR and General courses in Year 11.

## **STRENGTH AND CONDITIONING**

The aim of this elective is to extend students interested in improving their sport performance and physical fitness. However all students would be able to gain benefit from doing this elective. The emphasis will be on anaerobic training methods to cater for increasing core strength of our athletes. Students will be exposed to a variety of training methods such as resistance training, cross training, speed, agility and plyometrics. The course will be predominantly practical and complement other electives offered within the Health and Physical Education program.

## SYSTEMS AND ENGINEERING

D&T

Systems and Engineering is a specialised course which develops the problem solving ability of the students in a broad range of disciplines based around electronics and programming. It is a practical and theory based subject which includes the designing and assembly of electrical circuits and the communication of technological solutions. Students will be encouraged to apply initiative and creative thinking processes whilst producing several practical exercises.

Projects include the conceptual development and fabrication of both simple and complex circuitry. A range of programming software and industry standard computer packages are also available to provide real-life situations where possible. Students will be introduced to computer control of mechanisms using an interface and appropriate software. The designing, making and evaluating process will be developed throughout the course.

Systems and Engineering is broken into three main categories: Electronics, Computer Robotics and Technology in Manufacture. Collectively, these provide a good basis for further study in the Engineering and Mechatronics field. It is highly recommended that students wishing to study Engineering in Years 11 and 12 undertake this course in Year 10.

## THE RENAISSANCE AND BEYOND

The Renaissance was a revolution throughout Europe unlike anything ever seen before. This elective aims to bring about an understanding of how people and cultures have developed over the time period 1400's to 1700's. Boys will study two particular historical themes over the course of a semester developing an insight into why the world is the way it is today. Areas of study may include:

- **The Renaissance and Enlightenment** – The development of literature, science, art, religion, and politics, and a resurgence of learning, the development of linear perspective in painting, and widespread educational reform. This important period of intellectual transformation has resulted in the Renaissance being viewed as a bridge between the Middle Ages and the Modern era.
- **European Conquest, Colonisation and Settlement** – this area of study will focus on wars of conquest with regards European settlement of new world(s) focusing on the British, the French, the Dutch and the Portugese.

## SENIOR SECONDARY MATHEMATICS

