

THORNBURY HIGH SCHOOL



Year 10 Handbook 2018

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Message from the Year 10 team:

The Middle School years at Thornbury High School are crucial in the development of young people. We provide many opportunities to enable students to achieve their academic potential.

We aim to provide an environment where students can grow in confidence, develop their skills and realise their abilities. It is a priority at Thornbury High School that students feel valued. We maintain a strong framework in the key areas of learning and provide our students with choices and educational opportunities.

Research indicates that the habits and skills developed by young people in the middle school years have a direct impact on their success in the senior years.

Throughout Year 10, students participate in a variety of activities in class time, career support programs and subject counselling, so that they are equipped to make informed choices in subject selections and other decisions that may affect further study.

We hope their journey in the Middle School will enable students to grow and begin to forge pathways for the future.

All the best from the Year 10 Team

All information regarding school rules, policies and procedures are outlined in the student planner.

Overview of the Year 10 Curriculum

Year 10 is considered a preliminary VCE year. It forms a bridge between the Middle Years of schooling and the Senior Years. This is reflected in the general curriculum structure and the provision for some students to access a range of VCE units as part of our accelerated learning program. The curriculum at Year 10 is made up of core (compulsory) and elective subjects, many of which have direct links to VCE subjects.

All Year 10 subjects are drawn from the Victorian Curriculum that provides the basis for curriculum planning, assessment and reporting from Prep to Year 10.

The table below gives an overview of the Year 10 curriculum and indicates the number of periods per fortnight allocated to each subject or Key Learning Area. Each period is 72 minutes.

Subject	Periods/Fortnight	
	Sem 1	Sem 2
<i>Core Subjects</i>		
English	7	7
Mathematics	7	7
Science	6	6
History / Business & Civics	6	6
Personal Development	2	2
<i>Elective Subjects</i>		
Subject 1 / Subject 3	6	6
Subject 2 / Subject 4	6	6
Total	40	40

Exams will be held at the end of each semester for all subjects. SACs (School Assessed Coursework) will be held in all VCE and VET subjects selected by our Year 10 students. In all other subjects, CATs will be assigned to students throughout each semester.

Promotion Policy

We regard the learning and teaching process as a partnership between students, parents and staff. Thus, we expect our students to actively participate in this process, and to take increasing personal responsibility for their own learning.

We similarly expect our parent community to support their children both directly, by providing them with appropriate materials, monitoring homework and wide-reading, as well as indirectly, by supporting the school and its policies. Parents and students should be well aware that promotion of students to a higher year level is not automatic.

Promotion to Year 10 requires students to:

- Achieve an acceptable work standard in all five Work Habits.
- Receive an overall academic result of at least 50% in all subjects.
- Have a minimum attendance of 90% - this means a minimum of 9 days attendance every fortnight.

Inability to meet promotion requirements:

If a student does not meet these promotion requirements, there are two possible courses of action which will be decided by a panel consisting of the Year 10 Manager, parents, teachers and student:

1. Offered the chance to repeat the current year level.
2. Assisted in transferring to another school or alternative setting.

Year 10 Elective subject costs

Information is correct as of August 2017 and subject to change.

KLA	Subject	Levy
Humanities	Geography	-
	Legal Studies	-
	Philosophy	-
Science	Radio Astronomy (STEM)	-
Health & P.E	Outdoor Education	\$285
	Physical Education	-
	Sport and Recreation	\$80
	Personal Development	-
Languages	Italian	-
	Greek	-
	Mandarin	-
Technology	Automotive Systems Design	\$60
	Food Studies	\$85
	Patisserie	\$110
	Digital Technologies	-
	Woodwork	\$85
The Arts	Animation	-
	Viscom: Architectural Design	\$25
	Studio Arts 2D	\$25
	Dance	\$15
	Studio Arts 3D	\$25
	Filmmaking and Cinema Studies	\$80
	Viscom: Graphic Design	\$25
	Music Performance	\$60
	Music Technology	\$60
	Contemporary Street Art	\$25
	Studio Arts: Photography	\$90
	Theatre Studies	\$95
	Viscom: Illustration Design	\$25
VET subjects (year long)	Certificate II Hospitality: Kitchen Operations	\$580
	Certificate II Sport and Recreation (less \$40 with First Aid Cert)	\$250

VCE Unit 1+2 subject costs

VCE Subject	Levy
Biology 1 and 2	-
Business Management 1 and 2	-
Computing 1 and 2	-
Food Studies 1 and 2	\$140
Health and Human Development 1 and 2	-
Music Performance 1 and 2	\$60
Psychology 1 and 2	-
Theatre Studies 1 and 2 (levy includes theatre excursion costs - must be paid upfront)	\$145

Student holidays during school time

If you choose to take your child away during school time, teachers MAY NOT be able to provide work depending on the curriculum content being taught at the time. Your child's assessment for that semester will reflect the work they have undertaken whilst at school and in negotiation with the teacher. If you have any concerns with this please contact the subject teacher.

Key contacts – KLA Leaders

If you have any queries regarding subject specific information, please contact the appropriate KLA leader. Alternatively contact the sub-school leader.

English	Paul Mullaney
Maths	Tayatea Mackenzie
Science	Lisa Pieropan
Humanities	Rick Manning
Performing Arts	Emma McCulloch
P.E. / Health	Carla Ruhe
Visual Arts / Technology	Estelle Joannou
Languages / EAL	Renata Tirabassi

Subject Selection

Year 10 students are offered a range of subjects to choose from. You will find a description of each subject offered in the following section. Subjects are in alphabetical order. Each student will be required to complete a **Subject Preference Form** that will be provided on the expo day. *Parents are encouraged to discuss subject choices with their child.*

Please note the following:

- some subjects do not run because of insufficient numbers, or
- there are timetable clashes of subjects, or
- approval has not been given for a student to study a VCE subject or VET etc, or
- there are no places available in a VCE study of your choice.

How to choose subjects

Step 1: Reflection

- In terms of your education: What are your strengths? What do you enjoy doing?
- At this stage what career path interests you? i.e., Sport & Recreation Industry, Health or Beauty Industry, Sciences, Commerce, Small Business, Law, Information Technology or the Music or the Arts.
- You could check these references to research possible courses www.myfuture.edu.au which gives students the opportunity to explore their interest and skills.

Step 2: Some Advice

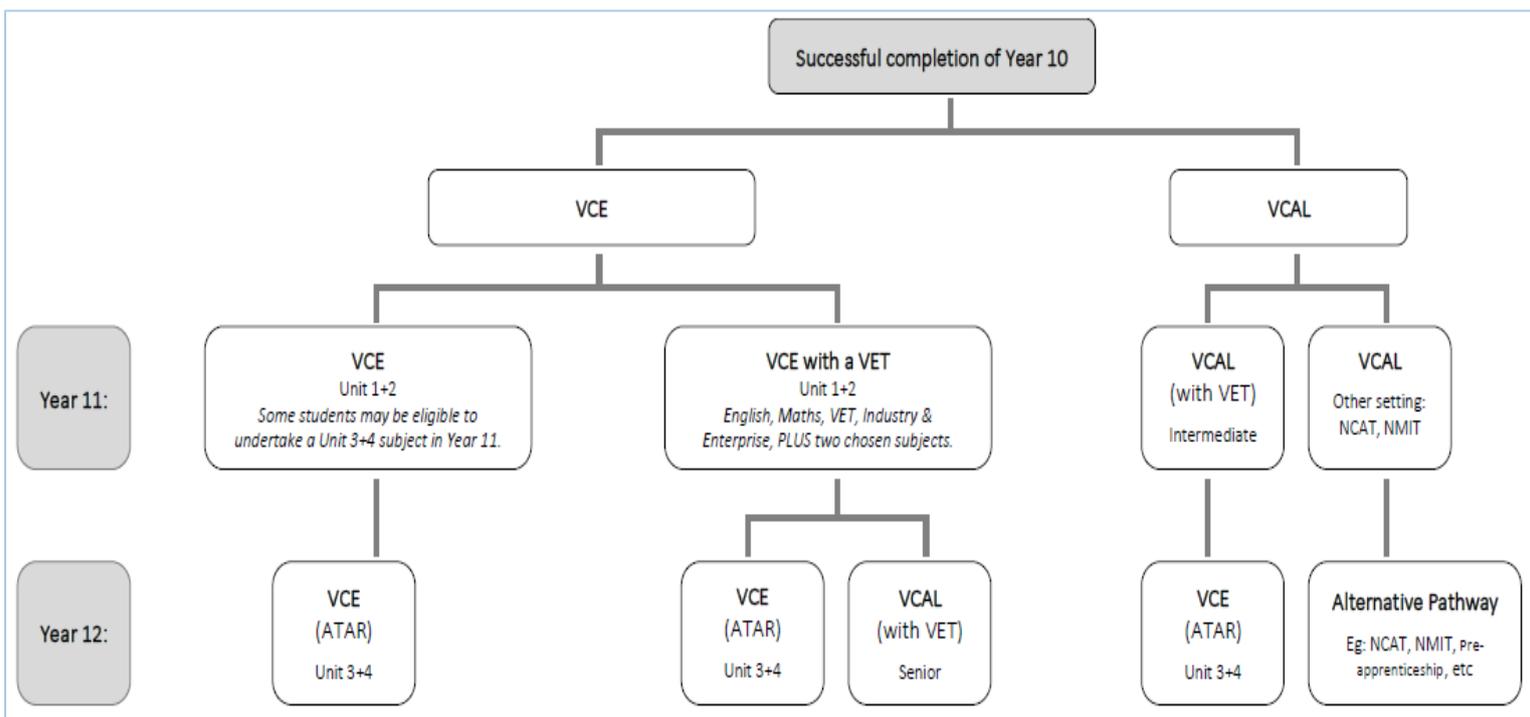
- Year 10 is a challenge; there are many new subjects, new co-curricular activities and new friends to make. Think about your future – **choose what suits you** not what your current friends want to do. This is a time to explore and think about where you're heading, how to make the most of the opportunities being offered.
- You will be able to choose **two subjects each semester**. Choose units which sound interesting to you, and that you may want to continue to study in VCE or VCAL.
- Some Year 10 students will be given the opportunity to accelerate and select a VCE / VET subject. Students who are interested in studying one of the available VCE / VET units will also need recommendation listed on subject selection forms. Expression of Interest Forms are available from the 9 / 10 office or via Compass.
- Read the Year 10 Handbook carefully for unit descriptions. Each unit lasts for one semester

unless specified and cannot be repeated. Discuss your options with teachers and parents if you're not sure.

- Students need to read the Year 10 handbook carefully or ask the relevant teachers if they require further information. Once students have been placed on a published subject roll, and their choices have been confirmed in writing changes cannot be made to selection.
- Parents are encouraged to participate in assisting their child in selecting their subjects and must note that some subjects and ALL VET ELECTIVES incur a cost.
- **To confirm enrolment in the subjects that incur a cost, payment must be paid prior to the commencement of the subject.**

Process of subject selection

Course counselling for Year 10 2018 will take place on Thursday 17th August. No formal classes will run on this day and each student and a parent / guardian will be required to attend a meeting with a course counsellor.



CORE SUBJECTS

ENGLISH

► ENGLISH

The focus of English is the extension of students' abilities in the modes: Writing, Reading & Viewing and Speaking & Listening. Year 10 English includes the study of both print and non-print texts, writing techniques and strategies and oral activities. Homework reflects and extends the work being undertaken in the classroom.

Students will read a range of texts including at least one novel, one play, various short stories, poetry and newspaper items. Students will respond to the texts in a number of ways including a critical evaluation of a current media issue in terms of its logic and techniques of persuasion. All students are encouraged to read widely from a range of fiction and nonfiction books available in the library.

Students will engage in both formal and impromptu oral activities to demonstrate their own interpretation of complex information and awareness of how context should affect language.

They will produce a series of edited pieces of written work for different purposes and audiences, two of which are text response essays under test conditions. They will use writing to explore different perspectives on texts and issues and experiment with techniques.

VCE Pathways: English
Literature

► EAL (English as an Additional Language)

EAL (English as an Additional Language) is offered only to students who have been in Australia fewer than five years and for those students whose education in English has been interrupted due to living overseas for an extended period of time.

The course is designed to help students gain confidence in using the English language and to develop their skills in reading, writing, listening and speaking. It also assists students with mainstream English.

VCE Pathways: EAL

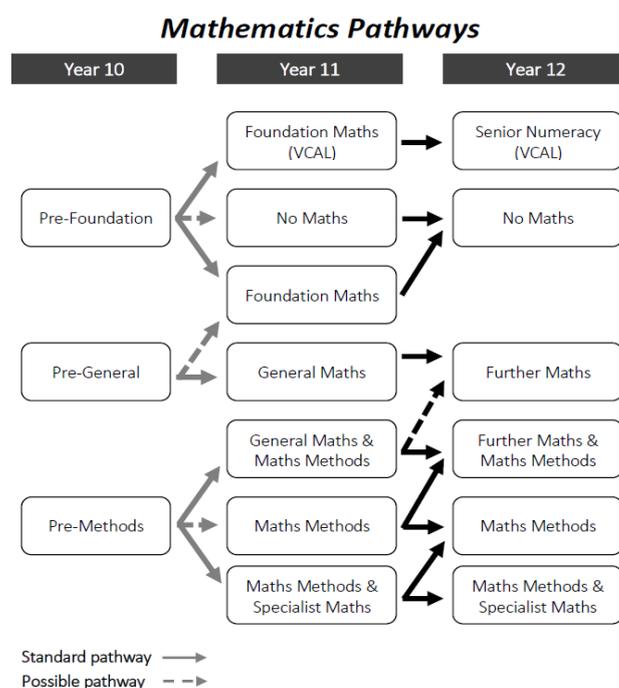
► Pre-Bridging EAL

Pre-Bridging EAL focuses on language skills needed by students for whom English is an additional language. Students develop knowledge and skills in speaking, listening, reading, viewing, writing and thinking, and progress from informal use of language to more formal, academic and technical language use. The course is designed to complement and build on the work students will be doing in their regular EAL class.

VCE Pathways: Bridging EAL

MATHEMATICS

Students will follow one of three mathematics pathways, depending on their mathematical achievement and aspirations for Year 11 and 12 and beyond. Each Year 10 subject is named for the corresponding VCE subject. The flowchart on the next page shows many of the possible mathematics pathways through to the end of Year 12.



► PRE-FOUNDATION

In Pre-Foundation Mathematics, students' learning takes a practical approach, with a focus on numeracy skills, basic concepts and applied learning. This subject enables students to build confidence in tackling mathematical problems, and progresses at a pace that allows students to fully develop their understanding across all topics.

Please note: this course does not adequately prepare students to study General Maths in VCE.

VCE Pathways: Foundation Mathematics

► PRE-GENERAL

The Pre-General Mathematics course covers topics across Number, Algebra, Measurement, Geometry and Statistics. Throughout the year, students develop the knowledge and skills required to study mathematics through to the end of Year 12.

Please note: this course does not adequately prepare students to study Mathematical Methods in VCE.

VCE Pathways: General Mathematics

► PRE-METHODS

The Pre-Methods Mathematics course prepares students to tackle the more advanced Mathematics subjects in Year 11 and 12. It is a rigorous course, exposing students to more complex and sophisticated mathematics, with an increased focus on algebra and problem solving. Students completing this subject must have the CAS Calculator (Casio ClassPad).

Please note: this course is essential preparation for students who intend to study Mathematical Methods in VCE.

VCE Pathways: Mathematical Methods
Specialist Mathematics

HUMANITIES

As part of the Humanities program, students will study one semester of History and one semester of Business and Civics.

► HISTORY

The focus of Year 10 History is World War II, with a particular focus on the Asia-Pacific region. In History, students are encouraged to analyse representations of historical events. Students are expected to be able to look carefully at the way history has been recorded by writers, painters, cartoonists, pamphleteers, poets etc, and form opinions about the available evidence. Students are required to analyse representations of events from a variety of sources and viewpoints.

Students are expected to complete tasks in all of the following formats - work book entries, research activities, mapping, comprehension exercises, analytical exercises, class tests and an end of semester exam.

VCE Pathways: History

► BUSINESS & CIVICS

This unit is about jobs and the future of work in Australia. Current issues such as new technology, pay and conditions, personal budgeting, health and safety, and the way businesses are managed is studied. Students learn job-seeking skills, such as:

- resume writing,
- interview skills,
- filling out forms, letter writing,
- generic skills required by employers
- setting personal goals

Employee rights, expectations and responsibilities, are also a part of this course.

Students are required to keep an up to date work book which will include class exercises and homework tasks. Students are also required to develop a folio of finished exercises which includes student's resume. Another requirement is a project researching three different kinds of employment. The final CAT is an investigation of Political Issues in contemporary Australia.

VCE Pathways: Accounting
Business Management
Legal Studies

SCIENCE

A student who is proficient in Science and interested in following science through to VCE may complete the following subjects. Entry is based on Year 9 Science results and other data as needed.

1A Biology/Psychology Advanced

2A Chemistry/Physics Advanced

A student who is unsure about their Science pathway or not as strong in the area of Science will complete the following subjects:

1B Biology/Psychology General

2B Chemistry/Physics General

Students are expected to select one unit from the Biology/Psychology stream and one unit from the Chemistry/Physics stream over the year. A student may select any combination from each stream.

► 1A BIOLOGY/PSYCHOLOGY ADVANCED

Students will investigate how much influence their genetics has on their physical and mental development. This subject will include investigations into areas such as the cellular processes and students will investigate genetic inheritance and how this can lead to genetic disease. Students will also investigate mechanisms of evolution and how natural selection has impacted on diversity over

time. In the area of Psychology, students will build upon their understanding of how Biology and investigate how the brain and nervous system affect mental processes and personality. At the completion of this unit, students will have further refined their ability to communicate scientific ideas and will have developed a deeper understanding of Biology and Psychology in preparation for VCE studies in these areas.

VCE Pathways: Biology
Psychology

► 1B BIOLOGY/PSYCHOLOGY GENERAL

This subject focuses on Environmental Biology and Psychology. Whilst investigating Environmental Biology students will initially look at the basic structure of the cell and how the organelles within a cell impact on its functioning alone and within living organisms. How the Earth is formed, the biosphere and how humans are influencing the various cycles that exist on Earth such as the Carbon cycle, Water cycle, Nitrogen and Phosphorous cycles will also be investigated whilst focusing on sustainable practices to prevent further disruptions to the natural cycling of the Earth. Whilst studying Psychology in this elective, students will develop an understanding of basic psychological research, and apply this knowledge to areas such as intelligence and mental illness.

Students will develop their critical thinking skills to analyse data to formulate arguments for and against questions relating to how the industrial revolution has changed the world, and will further develop their understanding of the scientific method and refine their ability to effectively construct scientific reports.

VCE Pathways: Biology
Psychology

► 2A CHEMISTRY/PHYSICS ADVANCED

This subject is designed for students who are interested in pursuing Chemistry and Physics at the VCE level. Over the semester students will complete one term of Chemistry and one term of Physics. The Chemistry component of the course comprises of two main areas of study; Atomic Theory and Chemical Bonding. For Atomic Theory, students will develop their understanding of the structure of atoms in terms of electron shells, explain how the electronic structure of an atom determines an element's position on the Periodic Table and outline trends in the chemical properties of elements. For

Chemical Bonding, students will develop knowledge of how atoms join to form substances and will investigate different types of chemical reactions.

The Physics component of the course comprises of two main areas of study; Motion and Energy. For Motion, the students will investigate the mathematical relationships used to calculate speed, velocity and the acceleration of moving objects. Students will learn how to process graphical information to describe and analyse motion. Students will also explore and explain Newton's three laws of motion and make predictions about how forces affect the motion of an object. For Energy, students will apply the laws of conservation of energy to describe energy transfers and transformations in a wide range of applications.

VCE Pathways: Chemistry
Physics

► 2B CHEMISTRY/PHYSICS GENERAL

Over the semester, students will complete one term of Chemistry and one term of Physics. The Chemistry component of the course comprises of two main areas study; Atomic Theory and Chemical Bonding. For Atomic Theory, students will develop their understanding of the structure of atoms in terms of electron shells, explain how the electronic structure of an atom determines an element's position on the Periodic Table and outline trends in the chemical properties of elements. For Chemical Bonding, students will develop knowledge of how atoms join to form substances and will investigate different types of chemical reactions.

The Physics course will consist of three components; firstly how bodies move beginning with a description of the relationship between distance, speed and acceleration. Further investigation will explore the average and instantaneous speed of a moving body. Next, a moving body will be analysed using a position versus time, speed versus time and acceleration versus time graph. The 3rd component will begin with a description of a force. This will include applied forces such as friction, air resistance and those due to gravity. Students will then look at summing the forces acting on a body to find its net force and decide if the total forces are in or out of balance. A description of the Law of Inertia along with Newton's 1st, 2nd and 3rd Laws of Motion will be treated both quantitatively and qualitatively.

VCE Pathways: Chemistry
Physics

PERSONAL DEVELOPMENT

The Year 10 Personal Development course looks at a range of social and cultural factors that influence the development of personal identity and values. Students identify and explain the rights and responsibilities associated with developing greater independence, including those related to sexual matters, respectful relationships and substance abuse. This subject examines mental health issues relevant to young people as well as evaluating perceptions of challenge, risk and safety.

Students analyse the positive and negative health outcomes of a range of personal behaviours and identify the health services and products provided by government and non-government bodies and analyse how these can be used to support the health needs of young people.

VCE Pathways: Health & Human Development

ELECTIVE SUBJECTS

ART

► ANIMATION

Students will work as a team member to produce an animated short. This will involve learning Flash animation and rotoscoping with a tablet, or modelling in Blender3D with mocap files. Each student will be responsible for a scene and be part of a team that oversees storyboarding, cinematography, workflow, sound, compositing, post-production, and quality control/review. The unit will provide students with the skills to then produce their own animated movies.

VCE Pathways: Media Studies

VET Pathways: Interactive Digital Media

► DANCE

In this elective students participate in both practical and theory dance classes. In the practical component, they work in collaboration to develop a whole group performance piece from start to finish including theme, music and choreography selection, whilst also developing a solo piece. This involves learning how to use the various elements of dance to create an aesthetic, unique and original piece of work.

In the theory component of the elective, students will examine: what is choreography, who are choreographers and how have choreographers

changed the face of dance over time? This will involve the study of several famous choreographers over the past 100 years, as well as the analysis of current live performance pieces.

VCE Pathways: Dance

► FILMMAKING AND CINEMA STUDIES

Do you love watching films? Do you love making films even more?! This 'Filmmaking and Cinema Studies' course offers the opportunity to learn the skills to make films like the pros, from Woody Allen to Robert Zemeckis! You will improve your film appreciation, and learn the fundamental building blocks for VCE Media Studies 1-4. You will learn the necessary skills required for the analysis of a Media text, whilst exploring the use of 'Production Elements' and 'Story Elements' within the texts construction.

VCE Pathways: Media Studies

► MUSIC PERFORMANCE

Music Performance is a year-long subject.

Year 10 Music is a hands on year-long subject that prepares students for VCE Music. Students spend a great deal of time on their instruments in a solo and group setting. Students focus on an instrument of their choice (including voice) and choose the styles of music performed. Other aspects of the course include improving performance technique, as well as Musicianship (theory and aural skills). Students perform on a regular basis, and instrumental lessons are compulsory. Part of the subject includes using the school's recording studio. Composition (writing songs) will also be incorporated into Semester Two.

Please note: Further non-VCE acceleration opportunities may be available at Year 10. Speak with Mr. O'Sullivan or Mr. Schutz to see if you are eligible for acceleration.

VCE Pathways: Music Performance

► MUSIC TECHNOLOGY

Music Technology is an exciting subject, whereby students learn to use our recording studio, learning how to use ProTools and Garageband. We will also have industry professionals come into the school to share their vast knowledge and assist students in their projects. If you're interested in Music Recording, Business and Events Management, Technical Production, Video Production,

Photography, Media and Communications or Visual Design this is the program for you.

VET Pathways: Cert III Music (Sound Production)

► STUDIO ARTS: 2D

The Studio Arts: 2D course focuses on 'Two Dimensional' art making processes by providing students with the opportunity to explore, communicate, challenge and express their own ideas through art-making. The course focuses on VCE studio practise preparation by introducing self-motivated study in the form of meaningful independent projects.

Emphasis is placed on practical skill development through the experimentation of a broad range media, techniques and materials, focusing on 2D artmaking methods such as pencil, graphite, charcoal, paint, collage, printmaking, scratchboarding and digital experimentation.

Studio Arts: 2D Artworks program combines both art history and practical artmaking in the exploration of the elements of art and by undertaking theory based research that relates to their own art making ideas.

Students will also be provided with the opportunity to create artwork outside the classroom and may include artist workshops and visits to Art galleries and Museums.

VCE Pathways: Studio Arts: Art
Studio Arts: Photography

► STUDIO ARTS: 3D

The Studio Arts: 3D course focuses on 'Three Dimensional' art making processes by providing students with the opportunity to explore, communicate, challenge and express their own ideas through art-making. The course focuses on VCE studio practise preparation by introducing self-motivated study in the form of meaningful independent projects.

This Studio Arts: 3D elective provides students with hands-on practical experiences and will include a focus on creating, making and evaluating three dimensional artworks. Student will learn a range of different skills and they will experiment with traditional and contemporary 3D construction methods such as ceramics, model-making and digital 3D rendering. Students will explore a range of materials, techniques and technologies and will learn how to develop an idea from concept to 3-dimensional construction and presentation.

This elective may include a visit to sculpture parks or exhibitions.

VCE Pathways: Studio Arts: Art

► STUDIO ARTS: PHOTOGRAPHY

The Year 10 Studio Arts: Photography elective focuses on skill and technique development by providing students with the opportunity to explore, communicate, challenge and express their own ideas through photography. The course focuses on VCE studio arts practise preparation by introducing self-motivated study in the form of meaningful independent projects.

In this elective students will build their photography skills by focusing on the development of their digital and analogue SLR camera skills. They will learn how to better control manual shooting settings, deliberately control ambient and studio light and learn how to enhance composition with camera techniques. Students will continue to explore the history of photography as an art form, drawing upon the works of photographic artists to inspire their own photographic artworks. This course will provide students the opportunity to learn a variety of skills such as:

- Analogue film processing
- Darkroom printing
- Negative Scanning
- Photoshop editing and image manipulation techniques.
- Digital photographic printing.

Students will also be provided with the opportunity to create artwork outside the classroom and may include a photo documentary excursion to the city and visits to art galleries and museums.

VCE Pathways: Studio Arts: Photography

► THEATRE STUDIES

The Year 10 Theatre Studies course is an introduction in preparation for the VCE curriculum, preparing students with necessary skills for future years and engaging them in the initial elements of the subject.

Students are introduced to several theatrical styles and their conventions. They explore the Dramatic elements, including the use of focus, tension, timing, mood and symbol in their works, while analysing and evaluating the intended effect on the audience.

Students are introduced through hands-on workshops to the elements of Stagecraft, all the parts that make up a production - set, lighting,

sound, acting, directing, costume, make-up, theatre technologies, stage management, properties and publicity and marketing. They see several professional productions (in 2017 we saw *Born Yesterday*, *Twelfth Night* and *Melbourne Talam*) and analyse the stagecraft within, drawing on this as they write, design and develop their own piece

VCE Pathways: Theatre Studies

► VISCOM: ARCHITECTURE DESIGN

Viscom: Architecture Design is inspired by the VCE Visual Communication and Design study design course with a focus on Architecture, environmental and interior design skills. Students will learn how to generate ideas, experiment with materials and research contemporary designers to assist in the design of their works.

Students will be introduced to instrumental drawing methods, look at sustainable energy housing design considerations and learn the techniques involved in creating an architectural model. Students will also learn how to use Google SketchUp and Adobe drawing programs to create final presentations and complete a range of engaging projects such as:

- **The Cubby House Project-** Research, drawing and model making with found materials.
- **The Beach House-** Design brief, research, site modelling, design thinking techniques, design process, drawing to architectural conventions and standards, 3D drawing, scale model making.
- Introduction to Google Sketchup and illustrator Project

VCE Pathways: Visual Communication & Design

► VISCOM: Graphic Design

Viscom: Graphic Design is inspired by the VCE Visual communication and Design study design course with a focus on the development of students digital and design thinking skills. Students will study the design process, learn how to generate ideas, experiment with materials and develop their understanding of design contexts. They will be introduced to photoshop, illustrator and indesign, learning how design a variety of communications, placing emphasis upon on the design elements and principles and digital rendering processes. Students will complete a range of exciting projects such as The THS School planner design, typography Lettering assignment and Logo and Package design tasks.

VCE Pathways: Visual Communication & Design

► VISCOM: ILLUSTRATION DESIGN

Viscom: Illustration Design is inspired by the VCE Visual Communication and Design study design course with a focus on the development of students handing rendering illustration skills. Students will study the design process, learn how to generate ideas, experiment with materials and develop their understanding of design contexts. They will be introduced to photoshop and illustrator and learn how design a variety of communications, placing emphasis on design drawing techniques. Students will explore a range of exciting themed projects such as Industrial Design, layout design, book illustration fashion design and interior design.

VCE Pathways: Visual Communication & Design

ENGLISH

► CREATIVE WRITING

In this course students will create original short stories and poems that reflect an emerging sense of personal style. They will learn a wide range of literary techniques and structures and experiment with them to craft effective writing. If you love reading and want to know how writers work their magic, or if you want to wield this magic yourself, this course will give you the tools.

VCE Pathways: English
Literature

► JOURNALISM

Students will learn about the text types associated with newspapers, magazines and online journalism. Expository, informational and persuasive texts. They will analyse the elements of these text types, and evaluate their effectiveness for specified audiences. They will research, plan develop and publish their own journalism in a range of authentic contexts.

Developing a sophisticated understanding of these texts, the techniques that characterise them and their effects will prepare students for success in both the analysis tasks and creative tasks required for VCE English and VCE Literature. These skills and understandings will be developed in a detailed and focussed way not possible in a core English classroom setting.

Students will create original journalism that reflects an emerging sense of personal style and engagement with contemporary issues.

Students will be required to complete self-analysis of their work, through a statement of intention that outlines their understanding of the genre, the purpose, the audience and the techniques that they have employed throughout the course.

VCE Pathways: English
Literature

HUMANITIES

► GEOGRAPHY

It is hard to imagine what the world might be like 50 years from now. But with the world's population expected to reach 9 billion by the year 2050, the land and its resources will come under ever-increasing pressure. There is evidence that our climate is changing and the time for action is now. Although it may not be possible to undo the past, we can prevent further harm. In this elective, students examine topics and key issues facing all countries along with Australia, including: threatened environments, human wellbeing, global warming and climate change. Through geographical investigation and fieldwork, students will gain a better understanding of these significant issues and how they might take action.

VCE Pathways: Geography

► LEGAL STUDIES

In this subject students examine the need for laws in society. They investigate the key features of criminal law and civil law, how it is enforced and adjudicated and possible sanctions and remedies. Through a consideration of contemporary cases and issues, students learn about different types of crimes and explore rights and responsibilities under criminal/civil law. Students also consider the role of parliament and subordinate authorities and courts in law-making, and alternative dispute resolution methods.

VCE Pathways: Legal Studies

► PHILOSOPHY

Have you ever wondered about the meaning of human life or how we decide which human characteristics are good or bad? Is it better to be timid and kind or strong and driven? What is happiness? Have you ever pondered whether events are decided by fate? How would humans act if laws didn't exist? Philosophy is all about trying to answer

these kinds of important and difficult big-picture questions.

Philosophy:

- nurtures curiosity and promotes problem-solving and open-mindedness
- trains you to systematically question and analyse key problems of human experience
- develops independent thinking and reasoning skills
- gives you essential skills needed to excel in VCE

This subject introduces students to the discipline of philosophy, providing them with valuable training in critical thinking. Students initially develop fundamental reasoning skills by assessing and responding to the ideas of a range of philosophers in connection to a host of key aspects of human experience. Students perform thought experiments.

Drawing upon a range of relatable materials, students engage with key philosophical concepts drawn from the writings of well-known philosophers and present their own justified views on a range of topics such as the nature of human happiness and human freedom.

VCE Pathways: Philosophy

LANGUAGES

► GREEK

► ITALIAN

► MANDARIN

All Languages are year-long subjects.

Continuing to study Languages improves students' chances of gaining employment. A wider variety of career opportunities are available to students who know more than one language. Apart from employment opportunities, studying another language enriches lives and helps in the appreciation of other cultures, especially when travelling.

Students will continue to develop the skills of Listening, Speaking, Reading and Writing in their chosen language. Students will also gain a greater understanding and appreciation of the culture of the country of the Languages they are studying. In Languages, students will complete a variety of activities including reading, listening, comprehension and writing tasks. Students will take part in role plays, make digital presentations, watch movies and DVDs, go on excursions, listen to music and use computers to produce movies.

VCE Pathways: Greek, Mandarin OR Italian

P.E. & HEALTH

► OUTDOOR EDUCATION

Outdoor Education aims to develop an understanding of our relationships with the environment, others and ourselves, through interaction with the environment through local and off-campus excursions. The course focuses on outdoor activities in a range of environments. It provides students with an opportunity to develop essential life skills and an opportunity to develop a comprehensive understanding of the environment, our impact upon it and the creatures we share it with, and will assist in the development of a more positive relationship with nature and the benefits of spending time in it.

Activities/Excursions may include:

- Team Challenges
- Water safety – Pool, River, Beach
- Stand Up Paddle Boarding - Beach
- Still Water Kayaking – Pool
- River Kayaking & Rescues
- Indoor Rock Climbing
- Caving
- Outdoor Rock Climbing
- Abseiling

VCE Pathways: Physical Education

VET Pathways: Sport & Recreation

► PHYSICAL EDUCATION

This elective encourages students to assess and improve their personal fitness and provides them with the opportunity to develop healthy living habits. It will also provide a theoretical pathway for students who wish to study VCE Physical Education by covering Roles and Responsibilities in sport as well as an in depth look at Body Systems (Skeletal, Muscular, Circulatory). Facilities at school and in the local community will be used to develop and complete a personal fitness program. Topics and activities include:

- Participation, Roles and Responsibilities, Sports Coaching
- Body systems (Skeletal, Muscular, Circulatory)
- Physical activity, fitness and health

VCE Pathways: Physical Education

► SPORT & RECREATION

Sport and Recreation is an elective with practical and theory based components. Theory encompasses options for lifelong physical activity, lifestyle diseases and participation factors whilst the practical component allows students to explore and trial local recreational community facilities. Various activities may include, but are not limited to, Beach Volleyball, Racquetball, Futsal, Indoor Football, Velodrome Cycling, Snooker, Indoor Cricket, Laser Skirmish, Ten Pin Bowling as well as various Aquatic Activities.

The elective also provides students with a building block towards a Certificate II in VET Sport and Recreation qualification.

VET Pathways: Sport & Recreation

SCIENCE

► RADIO ASTRONOMY (STEM)

Karl G Jansky's discovery of radio waves emitted from the Milky Way in 1936, marked the beginnings of radio astronomy. This course covers the basics of astronomy and radio astronomy including simple radio electronics, magnetism, electromagnetic waves, radio emitters in space and an introduction to the theory of antennas. The course begins with an introduction to concepts in radio electronics. This will include, amplification, inductance, resonance, and power. Topics in fundamental physics such as energy and its conservation will be covered. The next area of study covers radio waves with an introduction into electromagnetic radiation, followed by the detection and production of radio waves. The course will then focus on the basics of antennas. The types of antennas covered include the horizontal dipole, parabolic dishes and the beam or Yagi antenna. Antenna parameters such as gain, resolution, beamwidth, and radiation pattern will be treated qualitatively. Next students get to apply their knowledge by setting up a complete radio telescope (receiver and antenna), record and carry out a simple analysis of the emissions, from a known radio source such as Jupiter or the Sun.

VCE Pathways: VCE Physics

TECHNOLOGY

► AUTOMOTIVE SYSTEMS DESIGN

Students will collaborate in the construction of a working vehicle. Working in groups, students will problem solve the design of various automotive systems and then install these into an existing chassis.

Areas of study will include:

Fuel	Electrical
Motor and gearing	Cooling
Ergonomics	Safety
Environmental impact	

This subject draws together a variety of fields including maths, science and systems engineering, but general tinkering and experimentation also play a role. Students will document their progress in a task booklet and each group will maintain a visual record of their progress through photographs.

VET Pathways: Automotive

VCE Pathways: Product Design & Technology

► DIGITAL TECHNOLOGIES (ICT)

This Digital Technologies elective extends student knowledge of commonly used Microsoft programs. It includes introductory computer programming using Visual Basic or HTML. It also looks at a number of computer issues including: Toxic Waste, Safety on-Line, and Computer Fraud, Hackers, and looking at current IT developments as they appear in the media.

VCE Pathways: VCE Computing

► FOOD STUDIES

Student will learn about food through cooking, designing and investigation. The specific areas that student study include; food safety, meat and poultry, weight management, baked goods. Students will follow the design process in order to produce their own paddock to plate investigation on a fruit or vegetable.

VET Pathways: Hospitality: Kitchen Operations

VCE Pathways: Food Studies

► PATISSERIE

Students will learn about complex processes in baked good and desserts through cooking, designing and investigation. The specific areas that students study include; biscuit making, bread making, cake making and pastry making. Students will follow the

design process in order to produce their own international patisserie dish.

VET Pathways: Hospitality: Kitchen Operations

VCE Pathways: Food Studies

► WOODWORK

In project one students use their knowledge of the design process to *redesign* a product for a more sustainable outcome. Use of both power and hand tools is taught in order to equip students with the skills to create their second project using traditional joinery. Quality furniture timbers are used throughout the course resulting in a beautiful piece of furniture.

VCE Pathways: Product Design & Technology

VET Pathways: Furnishing

ELECTIVE SUBJECTS: VET VOCATIONAL EDUCATION & TRAINING

What is VET?

VET aims to enhance senior school studies (VCE and VCAL). VET allows a secondary student to combine their Year 10, VCE or VCAL studies with vocational training.

Features of VET

- It is an accredited program (usually over two years).
- It enables students to complete a nationally recognised vocational qualification (eg. Certificate II in Hospitality) and their Year 10 studies.
- It allows students to go directly into employment or receive credit towards further studies.
- It focuses on students developing industry specific and workplace skills.
- It is a vocationally oriented school program designed to meet the needs of industry.

Contribution to VCE

VET units contribute to VCE. Some VET programs have a Victorian Curriculum Assessment Authority (VCAA) recognised Unit 1-4 structure, including Year 12 Exams.

- At Thornbury students can choose one VET subject as part of their VCE course.
- VET fees depend on the program and the materials students are required to use. All fees

must be paid prior to the commencement of the elective.

VCE VET SUBJECTS

► KITCHEN OPERATIONS (SIT20416 Certificate II)

This practical course is designed to introduce students to the hospitality industry. The program aims to provide students with skills in customer service and workplace communication, in addition to food and beverage training. Commercial cookery forms a large part of the training within this course.

Graduates may find work in a variety of hospitality establishments, such as coffee shops, restaurants, function centres, hotels, clubs and casinos.

► SPORT & RECREATION (Certificate II)

This course provides you with the knowledge and skills to work in the sport and recreation industry. Pathways are available for further studies in Certificate III or IV in Sport and Recreation and other sport programs. Core subjects include; Organise and complete daily work activities, apply first aid and work effectively in sport and recreation environments.

ELECTIVE SUBJECTS: VCE

VCE ACCELERATION SUBJECTS

Thornbury High School offers a selection of VCE Unit 1+2 subjects to Year 10 students. These subjects are year-long.

Why complete a VCE Unit 1+2 subject in Year 10?

There are potential advantages to be gained by starting a VCE subject in Year 10 and completing it in Year 11.

- Exposure to the VCE program in Year 10, allowing students to 'taste' the rigour of VCE
- A path of extension and challenge

Particularly capable students who meet specific selection criteria can achieve this by studying a Unit 1+2 subject in Year 10 and the corresponding Unit 3 and 4 in Year 11. This allows VCE students to include six subjects in the calculation of their ATAR score. VCE students may also qualify for University Extension Study in some subjects if in Year 11 they achieve a study score of around 41 in a relevant VCE Unit 3 and 4 sequence and excellent results in all their other subjects.

Please note that NOT all Year 10 students will be recommended to study a VCE subject in Year 10. Recommendations will depend on student level of achievement and results in Year 9.

Selection criteria for Year 9 students selecting a Unit 1+2 subject in Year 10.

- Minimum 'Very good' in all work habits
- Minimum 75% in CATs (for the selected subject area)
- Victorian Curriculum levels
- PAT data and NAPLAN data
- Demonstrated interest in the subject selected

**In the event of limited places, preference for entry into Unit 1+2 subjects will be given to Year 11 students over Year 10 students.

VCE SUBJECTS (UNIT 1+2)

More detail about each subject and assessment detail can be found on the VCAA website.

► BIOLOGY

How do living things stay alive: In Unit 1 students are introduced to some of the challenges to an organism in sustaining life. Students examine the cell as the structural and functional unit of life, from the single celled to the multicellular organism, and the requirements for sustaining cellular processes in terms of inputs and outputs. They analyse types of adaptations that enhance the organism's survival in a particular environment and consider the role homeostatic mechanisms play in maintaining the internal environment. Students investigate how a diverse group of organisms form a living interconnected community that is adapted to, and utilises, the abiotic resources of its habitat. The role of a keystone species in maintaining the structure of an ecosystem is explored. Students consider how the planet's biodiversity is classified and the factors that affect the growth of a population.

How is continuity maintained? In Unit 2 students focus on cell reproduction and the transmission of biological information from generation to generation. Students learn that all cells are derived from pre-existing cells through the cell cycle. They examine the process of DNA replication and compare cell division in both prokaryotic and eukaryotic organisms. Students explore the mechanisms of asexual and sexual reproductive strategies, and consider the advantages and disadvantages of these two types of reproduction. The role of stem cells in the differentiation, growth, repair and replacement of cells in humans is

examined, and their potential use in medical therapies is considered. Students use chromosome theory and terminology from classical genetics to explain the inheritance of characteristics, analyse patterns of inheritance, interpret pedigree charts and predict outcomes of genetic crosses. They explore the relationship between genes, the environment and the regulation of genes in giving rise to phenotypes. They consider the role of genetic knowledge in decision making about the inheritance of autosomal dominant, autosomal recessive and sex-linked genetic conditions. In this context the uses of genetic screening and its social and ethical issues are examined.

► BUSINESS MANAGEMENT

Business Management examines the ways in which managers can use an organisation's resources to achieve the objectives of the enterprise. The study recognises the range of management theories and exposes students to real business scenarios.

In Unit 1 students focus on businesses of all sizes as major contributors to the economic and social well being of a nation. Students explore business creation, from inception to the establishment of the enterprise. The success of this process establishing the basis of wealth creation which underpins the standard of living in Australia. Furthermore, students explore the factors affecting business enterprises from the environments within which businesses operate.

In Unit 2 students focus upon complying with legal requirements to create a business, as well as making decisions about how best to establish a system of financial record keeping, staff the business and establish a customer base. Students investigate the essential features of effective marketing and consider the best way to meet the needs of the business in terms of human resources, public relations strategies and methods of meeting corporate social responsibility obligations.

► COMPUTING

In Unit 1, students focus on how data, information and networked digital systems can be used to meet a range of users' current and future needs. They collect primary data when investigating an issue and create a digital solution that graphically presents the findings of the investigation. Students also examine the technical underpinnings of wireless and mobile networks, and security controls to protect stored and transmitted data. They acquire and apply their

knowledge of information architecture and user interfaces, when creating a website to present different viewpoints on a contemporary issue.

In Unit 2, students focus on data and how the application of computational systems support the creation of solutions that automate the processing of data. They develop computational thinking skills when using a programming language to create solutions and a sound understanding of data and how a range of software tools can be used to extract data from large repositories and manipulate it to create visualisations that are clear, usable and attractive, and reduce the complexity of data. Students apply problem-solving methodology to create a solution using database management software and explain how they are personally affected by their interactions with a database system.

► FOOD STUDIES

Food Studies is designed to give students a greater understanding of food as a commodity and knowledge of food preparation and production from small-scale to mass production in the industry.

Unit 1+2 Food Studies students will safely and hygienically prepare a variety of foods and learn about food from historical and cultural perspectives. Students will investigate the origins and roles of food through time and across the world. Students will consider the origins and significance of food through inquiry into particular food-producing regions of the world. Students will study the history and culture of food in Australia including indigenous food prior to European settlement. Students will investigate food systems in contemporary Australia, including the food industry and the home.

► HEALTH & HUMAN DEVELOPMENT

Australians are amongst the healthiest people in the world. However, a range of factors affect this outcome including inherited lifestyle, behaviour, attitudes and beliefs.

The central focus of this study is to examine the factors that promote wellbeing in individuals, families and communities in Australia. It aims to develop an understanding of the relationship between health and human development exploring the physical, social, emotional and intellectual aspects of development. The study recognises that health and development are influenced by lifestyle, environment, heredity, access to health services and the interaction between these factors. The

possibilities for change to promote wellbeing and to improve and sustain health are explored. Unit 1 focuses on Health and development of Australian Youth and Unit 2 focuses on the individual's health throughout their lifespan stages.

► MUSIC PERFORMANCE

The primary focus of Unit 1 and 2 is to continue exploring the technical, expressive and creative capabilities of their primary instrument, preparing students for two end-of-semester performances (Group and/or Solo).

Students work collaboratively and independently across a wide range of coursework tasks and ensembles to build on and apply their understanding of melodic, harmonic and rhythmic concepts through practical and analytical means. This is demonstrated through performance, notation, improvisation / composition and presentation skills.

Students develop specific aural and theory skills in both a practical and formal setting to continue to improve their musicianship with an emphasis on the two end-of-semester examinations. They mainly focus on post-1980 Australian music to develop critical listening skills, both verbally and in written form, using accurate terminology.

Prerequisites: students wishing to undertake VCE Music Performance are recommended to have undertaken at least two years of instrumental music tuition on their chosen instrument. Students are strongly advised to be under the tuition of an instrumental teacher and are also recommended to have their own instrument available to them during class-time and at home. If this is not possible, THS will endeavour to arrange an appropriate solution.

Please note: Further non-VCE acceleration opportunities may be available at Year 10. Speak with Mr. O'Sullivan or Mr. Schutz to see if you are eligible for acceleration.

► PSYCHOLOGY

Psychology is the scientific study of mental processes and behaviour. Psychologists seek to understand the complex interactions between biology, cognition (thought and perception), society and culture, and behaviour.

How are behaviour and mental processes shaped? In Unit 1 students investigate the structure and functioning of the human brain and the role it plays in the overall functioning of the human nervous system. Students explore brain plasticity and the

influence that brain damage may have on a person's psychological functioning. They consider the complex nature of psychological development, including situations where psychological development may not occur as expected. Students examine the contribution that classical and contemporary studies have made to an understanding of the human brain and its functions, and to the development of different psychological models and theories used to predict and explain the development of thoughts, feelings and behaviours.

How do external factors influence behaviour and mental processes? In Unit 2 students investigate how perception of stimuli enables a person to interact with the world around them and how their perception of stimuli can be distorted. They evaluate the role social cognition plays in a person's attitudes, perception of themselves and relationships with others. Students explore a variety of factors and contexts that can influence the behaviour of an individual and groups. They examine the contribution that classical and contemporary research has made to the understanding of human perception.

► THEATRE STUDIES

Theatre Studies focuses on the interpretation of playscripts and the production of plays from the pre-modern era to the present day. Students apply stagecraft including acting, to study the nature, diversity and characteristics of theatre as an art form. Throughout the study, students work with playscripts in both their written form and in performance. They learn about the times, places and cultures of key theatrical developments and develop an awareness of the traditions and histories of the theatre. Theatre Studies provides students with pathways to further studies in fields such as theatre production and theatre design, script writing and studies in theatre history.

This knowledge is applied through the use of stagecraft to collaboratively interpret playscripts in performance. Through contribution to the production of plays and performance of a monologue, students also develop knowledge and understanding of theatrical styles. This knowledge and understanding is further developed by analysis and evaluation of their own productions and productions by professional theatre practitioners.