Year 10 Selectives 2017
# Table of Contents

Creative and Performance Arts ................................................................. 5  
CAP101 – All the World’s a stage (Drama/Theatre Studies) ................................................. 5  
CAP102 – Creative Clay - Ceramics ............................................................................. 5  
CAP103 – The Artist’s Studio PRINTMAKING/Studio Arts .............................................. 6  
CAP104 - Dynamic Designers! - Visual Communication Design ....................................... 7  
CAP105 - Mad about Media - Media ............................................................................. 7  
CAP106 - Musical Minds! - Music .................................................................................. 8  

Humanities ................................................................................................. 9  
HUM101 - Deadly Dates - Australian Indigenous History ............................................. 9  
HUM102 - Everybody Wants To Rule The World – Global Politics .................................. 9  
HUM103 - So You Hate Politicians? Make a difference - Australian Politics .............. 9  
HUM104 - Rights and Freedoms ................................................................................. 10  
HUM105 - Does Money Talk? - Economics .................................................................. 10  
HUM106 - Global Human Wellbeing - Geography ....................................................... 10  

Languages .................................................................................................. 11  
LAN101 - Pre-VCE Italian ......................................................................................... 11  
LAN102 - Pre-VCE Macedonian .................................................................................. 11  
LAN103 - Macedonian Community language and culture .............................................. 12  
LAN104 - French for travel and business .................................................................... 12  
LAN105 - Japanese for travel and business .................................................................. 12  
LAN106 - Languages - Literacy support ....................................................................... 13  
LAN107 - Italian Film study and pop culture ................................................................. 13  
LAN108 - Chinese language and culture ...................................................................... 13  
LAN109 - EAL bridging course ................................................................................... 14  

Physical Education and Health ...................................................................... 15  
Health - Health [Core] – All students will complete ...................................................... 15  
HEA101 - Health - The Health of Our Nation ................................................................ 15  
HEA102 - Health - Healthy Lifestyles .......................................................................... 15  
HEA103 - Health - Inside the Human Mind .................................................................. 15  
Physical Education - Physical Education [Core] – All students will complete .................. 16  
PE_101 - Physical Education - Sports Coaching ............................................................ 16  
PE_102 - Physical Education - Focus on Fitness ............................................................ 16  
PE_103 - Physical Education - Recreation: Epping & Beyond ...................................... 16  

Science ........................................................................................................ 17  
SCI101 - Engineering ............................................................................................... 17  
SCI102 - Genetics, Natural Selection & Evolution ......................................................... 17  
SCI103 - Forensic Science ......................................................................................... 18  
SCI104 - Consumer Chemistry ................................................................................... 18  
SCI105 - Industrial Chemistry .................................................................................... 19  

Technology .................................................................................................... 20  
TEC101 – Product Design and Technology ................................................................. 20  
TEC102 – Engineering – Metal and Technology ............................................................ 20  
TEC103 - Food ......................................................................................................... 20  
TEC104 - Game Design ............................................................................................ 21  
TEC105 - Programming & 3D Printing ....................................................................... 21  

**Accelerated Learning Program** .................................................................... 22  
Extended Investigations ......................................................................................... 22  

**VCE subjects** ........................................................................................... 22  
VCE Business Management .................................................................................... 23  
VCE Health & Human Development ........................................................................ 23  
VCE Psychology ................................................................................................. 23
Creative and Performance Arts

CAP101 – All the World’s a stage (Drama/Theatre Studies)

“Acting to me, is about the incredible adventure of examining the landscape of the human heart and soul. That’s basically what we do.” – Glenn Close

‘All the world’s a stage’ is a selective designed for those who love drama and self expression through performance and also ideal for those looking towards setting themselves up to study Theatre Studies at VCE level.

This selective allows you to explore character and role in great depth, participate in a class production and perform a researched monologue. You will gain skills in acting and staging in relation to a range of performance styles and look at the ways in which playwrights and script writers have responded to what is happening in their lives and the world. You will learn about a range of theatre styles from different eras and gain insight into how a written playscript is interpreted in its production to an audience. You will find yourself working both independantly and in groups towards a shared creative project.

If you love the thrill of the stage and the possibilities of expressing emotions and ideas through performance then, ‘All the world’s a stage’ is for you! Students wishing to undertake Theatre Studies at VCE level will gain a lot from this selective.

Who would want to study this subject?

Students who love drama and are curious about the world of performance and how it works on a broader level. Students who are interested in learning about the range of roles that contribute to theatre and who are highly motivated to work creatively towards a quality performance. Students who love expression through movement, sound and dialogue and those who are planning to work towards undertaking VCE Theatre Studies.

Where might this subject lead in future?

This subject develops critical thinking, group collaboration, independent learning, perseverance and interrogative questioning. It helps build self-confidence and leadership skills. All of these are transferable to a broad range of future pathways. This subject is recommended if you are considering VCE Theatre Studies and can lead to a variety of tertiary courses and career pathways such as; Bachelor of Arts: Acting, Bachelor of Arts: Technical Theatre and Stage Management, Bachelor of Creative Arts: Drama, Actor, Stage Manager, Producer, Director, Playwright, Sound Designer, Lighting Designer and more.

CAP102 – Creative Clay -Ceramics

“Pottery and sculpture are a way of life for me, not simply my job.” – Linda Coward

This elective introduces Ceramics/ Pottery as an art form and explores the basics of forming and shaping clay. Students will explore ceramic art by practicing hand-building techniques such as; pinching, slab building, coiling and slip casting. They will also have an opportunity to practice using the potter’s wheel and begin throwing basic forms. They will learn how the glazing and firing process impacts the form and aesthetics of a ceramic piece, as well as how to incorporate decorations and embellishments.

The design and creation of unique art pieces is emphasized; students learn balance and proportion, wall thickness correction, surface decoration techniques and new firing options. Students will be given the opportunity of making creative sculptural pieces, but also learn how to make ‘functional art’, such as vases, cups and bowls. Students receive an overview of the history of ceramics and how it has played a key role in innumerable human endeavors and has been an important part of human culture for thousands of years. From prehistoric storage jars to tiles on the space shuttles.
Who would want to study this subject?
Students with an interest in the extensive arts and an interest in practical hands on subjects, will love ceramics. It gives all students an opportunity to be expressive and at the same time give them an opportunity to create a unique work of art for them to take home and cherish forever.

Where might this subject lead in future?
Ceramics has a very technical and informative approach to creating and making. It teaches students design, form, decoration, aesthetics discipline and perseverance. All of these skills can be transferred to many others areas of interest for the future not just in the Arts. An interest in this subject can lead to tertiary studies such as a Bachelor of Arts: Ceramics and Diploma of Ceramics TAFE courses. Any career path that involves critical and creative thinking skills or future tertiary study that requires a strong folio as an entry criteria.
Students receive an overview of the history of ceramics and how it has played a key role in innumerable human endeavors and has been an important part of human culture for thousands of years. From prehistoric storage jars to tiles on the space shuttles.

CAP103 – The Artist’s Studio PRINTMAKING/Studio Arts
“Art can transform lives. It gives us the power to question, to confront, to explore and to challenge how we think about the world.” Lucy Liu

‘The Artist’s Studio’ is a selective designed for those who love art exploration and self expression and also ideal for those looking towards setting themselves up to study ‘Studio Arts’ at VCE level.

This class will be set up like an artist’s studio and we will explore lots of different materials and techniques such as; inks, printmaking, linocuts, impasto painting, collage, oil painting etc... You will work with a theme or topic that inspires and interests you and you will play with ways of representing that theme to communicate an idea or emotion to your viewer. Your folio will include other artist’s artwork, images and inspiration from a range of resources and you will learn how artists have responded to important events in their lives and the world.

Your folio will become a rich visual diary full of your thoughts and ideas about art and art making and you can include things that inspire you like; song lyrics, scenes from movies, poems, postcards, photos and keepsakes. You will also learn new ways of looking at and thinking about artworks.

If you are enthusiastic about trying new things, like a challenge, and want to expand your art knowledge and skills, ‘The Artist’s Studio’ is for you! It is also a great art extension subject for students who wish to take Studio Arts in VCE.

Who would want to study this subject?
Students with a passion for the visual arts, who like to experiment with materials and explore ideas. Students who feel creativity is important to them and who wish to extend their self expression in new and interesting ways through visual mediums. Students who feel at home with critical and creative thinking and who are curious about the ways artists have expressed ideas throughout the centuries. Students who wish to enter VCE folio subjects and Studio Art in particular.

Where might this subject lead in future?
This subject may lead students to study Studio Art at VCE level which in turn can lead to the following; Bachelor of Fine Arts: Painting, Bachelor of Fine Arts: Printmaking, Commercial Art, Fine Art, Set Design, Costume Design, Special Effects Make up, Art Curation, Art Publicist, Art Critic, Art Conservator, Art Marketing, Printmaker, Courtroom Artist, Tattoo Artist, Art Historian, Exhibition Designer, Gallery Owner, Animator and more. Any career path that involves critical and creative thinking skills or future tertiary study that requires a strong folio as an entry criteria.
CAP104 - Dynamic Designers! - Visual Communication Design

“Good design is a lot like clear thinking made visual” – Edward Tufte

Visual Communication design is a subject which enables students to analyse and practice visual communication methods in a real-world context. Students build a folio of technical and observational drawings, create visual and analytical responses to the design elements and principles, and experience working with the limitations of a design brief. The Visual Communication course is challenging, and can be very rewarding. It requires constant in-class and out-of-class work from the students in order to pass each unit of work, and will challenge and build on their creative, critical, analytical and lateral thinking abilities.

Who would want to study this subject?
Students who are interested in subjects predominantly within the creative domain are encouraged to undertake VCD. The subject also appeals to students with interests in mathematics, information technology, photography, fashion, architecture and business studies. Visual Communication Design covers a range of subject matter and context and can easily interest a broad range of students.

Where might this subject lead in future?
Visual Communication Design can lead students into outlets which are creative, analytical, and technology based. Studies in Communication Design and Graphic Design are a common outcome for students who undertake VCD - though it can also lead to studies and careers in architecture, marketing, advertising, engineering, fine art, photography, web design and development, game design, and more. The course introduces students to a range of career paths relative to VCD studies, and can draw the bridge between VCD and other subject areas students may be interested in. Following VCE Visual Communication Design studies, students might be interested in a Bachelor of Communication Design available at many tertiary institutions or Diploma of Graphic Design courses at TAFE. Any career path that involves critical and creative thinking skills or future tertiary study that requires a strong folio as an entry criteria.

CAP105 - Mad about Media! - Media

“Movies touch our heart and awaken our vision and change the way we see things. They take us to other places, they open doors and minds.” – Martin Scorsese

‘Mad about Media’ is an elective that focuses on film and video production. It is a basic introduction to the techniques of media production and the conventions used in filmmaking. You will learn to use video cameras and video editing software to produce short pieces, including interviews and TV commercials.

In this subject you will gain significant practical skills in video production and digital editing. You will view media texts (TV shows, documentaries, music videos and films) and learn about the codes and conventions used to create them. ‘Mad about Media’ allows you to be involved in scriptwriting, storyboarding, media production, media post-production and the creation of film promotional material.

Topics covered in this elective include; The storyboard and shot sequence, The soap opera, Teen movies, The superhero, The disaster movie, advertising and product placement in the media and creating a short film for a film festival (Tropfest Jr.)

This subject encourages teamwork, curiosity, creativity, imagination and problem solving skills.
Who would want to study this subject?
Students who love; filming or taking photographs, using technology to tell stories, gaining practical skills in media and love using their creativity to communicate to an audience. Students who wish to enter creative VCE studies and VCE Media in particular.

Where might this subject lead in future?
Studies in Media can lead to a range of tertiary studies and enhance career paths including; Masters of Media, Bachelor of Communication: Media Studies, Diploma of Screen and Media at TAFE. Students may one day forge a career as a Filmmaker, Cinematographer, Journalist, Writer, Story Teller, Graphic Designer, Games Designer, Illustrator and Animator, Publishing and more.

CAP106 - Musical Minds! - Music

“Music touches us emotionally, where words alone can’t.” — Johnny Depp

‘Musical Minds’ selective is designed for those students who have a passion for music and who love to perform. This subject will give you the opportunity to play a range of instruments, form bands and perform to your peers. Students will enjoy a practical hands on experience of music!

Using the “Musical Futures” program you will work in groups with your chosen instruments and will be able to play as a band with a strong emphasis on performance skills and techniques in order to further appreciate music. Performances may range from both in and out of the classroom.

‘Musical Minds’ allows you to create music with IT Technology on computers using Acid Pro to form and edit your own compositions. You will develop your own mix of songs using the Audacity program and explore how to create loops and add music to clips. An excursion to “The Channel” at the Arts Centre will enable you to create your own music using ICT. This selective is a very engaging and interactive approach to learning music.

Who would want to study this subject?
Students who have a creative drive to extend their love of music through performance. Students who have always loved listening to, creating and exploring different musical forms and who have a curiosity about the relationship between new technologies and the structure of musical compositions. Students who are interested in the broader music industry and wish to enhance their skill base to set them up for senior studies in music. Students who enjoy setting themselves personal challenges in the area of music but who also enjoy creating and refining music with others with a shared goal to perform. Students of all abilities may elect to do this subject however commitment and enthusiasm are required accompanied by a strong desire to achieve their best in Music.

Where might this subject lead in future?
This subject has the foundations that can lead to VET Music Performance in year 11 and 12. Studies in Music can ultimately lead to a range of tertiary studies and career paths including; Bachelor of Music Studies, Bachelor of Arts: Music Industry, Advanced Diploma of Music TAFE, Song writer, Composer, Orchestration, Band Musician, Conductor, Musical Director, Record Producer, Remixer, Recording Engineer, Sound Technician, Musical Journalist and more.
Humanities

HUM101 - Deadly Dates - Australian Indigenous History
In this subject students will explore the following questions and topics:
- What was Indigenous Australian life like before European colonisation?
- How did the culture clash between Indigenous Australians and Europeans impact modern Australia?
- Comparing colonisation: Maori versus the Indigenous Australian perspective.
This subject also includes a core element common to all Selectives - A study of the Inter-War Years, the rise of Nazism in Germany and The Holocaust.

Who would want to study this subject?
For those interested in Indigenous History, race relations, and civil rights.

Where might this subject lead in future?
This subject can lead on to VCE studies such as:
- Units 1 and 2: Twentieth century history
- Unit 2: Koorie history
- Unit 3: Australian history – imagining Australia
- Unit 1: Twentieth century history 1900–1945
- Units 3 and 4: Australian history

HUM102 - Everybody Wants To Rule The World – Global Politics
In this subject students will explore questions and topics such as:
- Should Australia go to war?
- Can we achieve peace and security?
- Are all people free?
- How many countries are independent?
- Different countries – different rules
- Why do people migrate?
This subject also includes a core element common to all Selectives - A study of the Inter-War Years, the rise of Nazism in Germany and The Holocaust.

Who would want to study this subject?
For those interested in human rights, migration, and international relations.

Where might this subject lead in future?
This subject can lead on to VCE studies such as: History, Legal Studies and International Politics.

HUM103 - So You Hate Politicians? Make a difference - Australian Politics
In this subject students will explore questions and topics such as:
- How do politics work in Australia?
- What is the federation? Do we need it?
- How do you change the law?
Students will also pick an issue of interest to them and prepare to run a campaign on that issue.
This subject also includes a core element common to all Selectives - a study of the Inter-War Years, the rise of Nazism in Germany and The Holocaust.

Who would want to study this subject?
For students interested in: Activism, democracy, human rights and the law.

Where might this subject lead in future?
This subject can lead on to VCE studies such as: Legal Studies, Sociology, Politics and history.
HUM104 - Rights and Freedoms
In this subject students will explore questions and topics such as:
How did the American Civil Rights Movement influence Australia?
What caused the Cold War?
The Universal Declaration of Human Rights.
How do civil rights activists achieve change?
How do we secure our rights and freedoms into the future?
This subject also includes a core element common to all Selectives - a study of the Inter-War Years, the rise of Nazism in Germany and The Holocaust.

Who would want to study this subject?
This subject is for those students interested in:
Human rights, international conflicts, and civil rights activist groups.

Where might this subject lead in future?
This subject can lead on to VCE studies such as: History, Legal Studies, International Relations and Sociology

HUM105 - Does Money Talk? - Economics
In this subject students will explore questions and topics such as:
Money - how do you get it and how do you use it?
What is good about money and what is not?
What is the relationship between profit and debt?
How do you calculate and manage finances?
This subject also includes a core element common to all Selectives - a study of the Inter-War Years, the rise of Nazism in Germany and The Holocaust.

Who would want to study this subject?
This subject is for those students interested in:
Running a business, accounting, finance and banking.

Where might this subject lead in future?
This subject can lead on to VCE studies such as: Business Management, Accounting, Economics, Industry & Enterprise

HUM106 - Global Human Wellbeing - Geography
In this subject students will explore questions and topics such as:
Does your skin colour, where you come from or the shape of your eyes affect the quality of your life?
The different concepts and measures of human wellbeing, and the causes of global differences in these measures between countries.
What are the distinctive aspects of human wellbeing in Australia, India and across the world?
This subject also includes a core element common to all Selectives - a study of the Inter-War Years, the rise of Nazism in Germany and The Holocaust.

Who would want to study this subject?
This subject is for those students interested in:
Journalism, Foreign Affairs, Foreign Aid, Hospitality, and travel.

Where might this subject lead in future?
This subject can lead on to VCE studies such as: Geography, Sociology, Health & Human Development, History and Global Politics.
Languages

LAN101 - Pre-VCE Italian
This academic language course is designed for students who would like to be part of an accelerated program and who may wish to pursue their studies at the VCE level. Students will study more complex grammar and further develop their reading, writing, listening and speaking skills in the language. They will gain a deeper intercultural understanding of Italy life and culture in Italy and in Australia. The course will prepare them for the demands of VCE languages and provide them with the intercultural understanding, global awareness and transfer of knowledge skills vital for employment in a 21st century workplace.

Who would want to study this subject?
Students that are:
• Enjoying Italian and would like to continue their studies
• Performing at a C grade standard or above
• Currently studying Italian and who have been studying it since year 7
• Interested in possibly pursuing Italian in year 11
• Eager to present themselves as people with a varied and distinguishable knowledge base
• Willing to take on the challenge of a Pre-VCE subject in the hope they are able to take on this academic subject in VCE and add positively to their ATAR score through the scaling system.

Where might this subject lead in future?
In the future studies in Italian could provide opportunities in:
• Tourism
• International business i.e. commerce, trade, economics
• Nursing
• Human services
• Interpreting / translating
• Exporting/importing industry
• Teaching
• Hospitality
• Retail / customer service

LAN102 - Pre-VCE Macedonian
This academic language course is designed for students who would like to be part of an accelerated program and who may wish to pursue their studies at the VCE level. Students will study more complex grammar and further develop their reading, writing, listening and speaking skills in the language. They will gain a deeper intercultural understanding of Macedonian life and culture in Macedonia and in Australia. The course will prepare them for the demands of VCE languages and provide them with the intercultural understanding, global awareness and transfer of knowledge skills vital for employment in a 21st century workplace.

Who would want to study this subject?
Students that are:
• Enjoying Macedonian and would like to continue their studies
• Performing at a C grade standard or above
• Currently studying Macedonian and who have been studying it since year 7
• Interested in possibly pursuing Macedonian in year 11
• Eager to present themselves as people with a varied and distinguishable knowledge base
• Willing to take on the challenge of a Pre-VCE subject in the hope they are able to take on this academic subject in VCE and add positively to their ATAR score through the scaling system.

Where might this subject lead in future?
In the future studies in Macedonian could provide opportunities in:
• Tourism
• Exporting/importing industry
• Nursing
• Human services
• Retail / customer service
• International business i.e. commerce, trade, economics
• Teaching
• Hospitality
• Interpreting / translating
LAN103 - Macedonian community language and culture
With a strong emphasis on community involvement and Macedonian cultural activities, this unit aims to equip students with functional day to day language skills as well as involve them in the Macedonian community. The highlight of this course is the variety of excursions and incursions that will take place during the year. Guest speakers and Macedonian community members will be invited to run workshops and participate in student learning.

Who would want to study this subject?
Students that are interested in:
- Developing basic reading, writing, listening and speaking skills in Macedonian for future travel.
- Gaining intercultural understanding and acquiring an appreciation of the commonalities and differences between Macedonia and Australia.
- Macedonian community in Australia.
- Macedonian businesses in Australia.
The course is designed for beginners regardless of their previous knowledge or background.

Where might this subject lead in future?
In the future studies in Macedonian could provide opportunities in:
- Tourism and hospitality.
- Nursing homes.
- Export/Import Industry

LAN104 - French for travel and business
This language elective is a short intensive course with an emphasis on survival language skills and a cultural awareness of social norms and traditions.

Who would want to study this subject?
Students that are Interested in:
- Developing basic reading, writing, listening and speaking skills in French for future travel
- Gaining intercultural understanding and acquiring an appreciation of the commonalities and differences between France and Australia.

Where might this subject lead in future?
In the future studies in French could provide opportunities in:
- Tourism and hospitality

LAN105 - Japanese for travel and business
This language elective is a short intensive course with an emphasis on survival language skills and a cultural awareness of social norms and traditions.

Who would want to study this subject?
Students that are Interested in:
- Developing basic reading, writing, listening and speaking skills in Japanese for future travel
- Gaining intercultural understanding and acquiring an appreciation of the commonalities and differences between Japan and Australia.

Where might this subject lead in future?
In the future studies in Japan could provide opportunities in:
- Tourism and hospitality
LAN106 - Languages - Literacy support

In this unit students will:
- Learn about the structures and functions of English
- Look closely at the mechanics of the English language - grammar and sentence structure
- Learn to write grammatically coherent texts
- Achieve a better knowledge of how to choose appropriate language for the intended purpose

Who would want to study this subject?
This course is recommended for students who are seeking additional support with their reading, writing or use of English language in order to prepare for VCE or VCAL in year 11. Please note that students studying this subject will not study an additional language.

Where might this subject lead in future?
Studying this subject may help students feel more confident about senior studies in Literacy and English (VCE or VCAL) and may also assist students with other subjects in VCE.

LAN107 - Italian film study and pop culture

In the film component students will:
- Study a range of films from Italy/Italian life abroad
- Analyse and discuss the socio-cultural settings in which the films are based
- Compare and contrast how different films depict Italy/Italian life abroad

In the Italian Pop Culture component students will:
- Study Italian Pop Culture which will encompass topics such as fashion, food, music, sport and family with an emphasis on Italian social life and trends of the past and particularly of the present day
- Expand their knowledge and awareness of Italy as a nation with an appreciation of Italy and its people in the 21st Century

Who would want to study this subject?
Students who are interested in the history of Italian Film and Pop Culture

Where might this subject lead in future?
Studies in this area could provide students with useful knowledge and skills for a possible career in the film industry.

LAN108 – Chinese language and culture

Chinese language and culture is a short intensive course with an emphasis on equipping students with functional day to day communication skills and a cultural awareness of Chinese social norms and traditions.

Who would want to study this subject?
Students who are interested in:
- developing basic reading, writing, speaking and listening skills in Chinese for future travel and business
- gaining an intercultural understanding and acquiring an appreciation of the similarities and differences between Chinese and Australian cultures
- learning more about this rising economic power in our region
- perhaps one day working in Asia, in finance, economics or manufacturing

Where might this subject lead in future?
Studies in this area could provide students with useful knowledge and skills for careers in multinational companies especially in the areas of finance, economics, manufacturing, tourism, mining and many others.
LAN109 – EAL bridging course

Bridging EAL is designed for a range of EAL students from diverse language and educational backgrounds and experiences. A strong focus is placed on increasing students’ vocabulary range and the understanding and application of grammatical structures to different writing tasks.

It supports and improves EAL students’ study of English and helps to prepare them better for VCE EAL. Students are exposed to different text types including newspaper articles, films, songs and short novels/stories and produce texts such as letters, applications, reviews and résumés. Pupils also become more familiar with Australian colloquialisms/sayings and their day to day uses.

This course is open only to EAL students seeking additional support with refining their use of English language to assist with the transition to senior studies (VCE or VCAL).

Who would want to study this subject?

This subject is for students who qualify for EAL support (were not born in Australia, speak a language other than English as their first language, have experienced most of their studies prior to arrival in Australia in another language and have been in Australia for less than 7 years).

This subject is open to students from years 10 to 12 and offers a good alternative to students studying another language.

This subject will support students to develop greater capacity in reading, writing and language expression regardless of their current level of competency.
### Physical Education and Health

**Health - Health [Core] – All students will complete**

This subject allows students to learn appropriate strategies for harm minimisation in party situations including appropriate first aid management. Furthermore, students will learn about respectful relationships and sexuality. Thus allowing students to focus on the health and well-being of individuals, communities and societies in the environments they share. Students will develop ideas that take a holistic approach to their health, recognising various factors that shape the behaviour and attitudes of individuals and groups in relation to healthy living and caring for themselves and each other.

---

**HEA101 - Health - The Health of Our Nation**

This subject allows students to describe the dimensions of, and the interrelationships within and between, youth health and individual human development, and analyse the health status of Australia’s youth. Furthermore, students develop an understanding of the health status of Australians by investigating the health of population groups in Australia. Students analyse how determinants of health, including the physical environment, biological, behavioural and social, contribute to variations in health status. Also, students examine the National Health Priority Areas and analyse initiatives designed to promote health.

---

**HEA102 - Health - Healthy Lifestyles**

This subject will allow students to further explore the various drugs and alcohol products that are available within Australia and the effects they have on the individual and society as a whole. Students will develop an understanding of how drugs are categorised and how that classification can impact on the health and development of the human body. Furthermore students will study how various influences such as age, sex and environment can affect how particular drugs can impact the consumer. Year 10 Healthy Lifestyles will also focus on what is classed as regular physical activity. The course will then conclude with a comprehensive study of the physical, mental and social health benefits of regular physical activity and the negative impacts that can arise through living a sedentary lifestyle.

---

**HEA103 - Health - Inside the Human Mind**

This subject will introduce students into the engaging world of Psychology whereby they will be given the opportunity to explore psychological theory and concepts. Students will develop skills and knowledge in the area of psychology that investigates human behaviour, thoughts, feelings and interactions. This introduction into psychology will allow students to understand the ‘how’ and ‘why’ questions they may have about learning, development, social interactions and biological aspects of behaviour.
Physical Education - Physical Education [Core] – All students will complete

Students will focus on promoting active living by collecting data and using the National Physical Activity Guidelines (NPAG’s) to compare activity levels across a variety of groups. Furthermore, media communication tools will be used to explore opportunities to increase physical activity levels. Students will have the opportunity to use a variety of activity assessment tools that will compare and analyse data related to active and sedentary behaviour. Through analysis of data students will identify possible barriers to physical activity at both a population and individual levels. The health consequence of physical inactivity will be a key focus, where students will have the opportunity to critique government and non-government strategies aimed at increasing physical activity within the population.

PE_101 - Physical Education - Sports Coaching

This subject will provide students with opportunities to explore a range of coaching practices and their contribution to effective coaching and improved performance of an athlete. The students will participate in theoretical physical education classes where they will investigate a range of coaching practices and they will then implement these practices within a practical physical education setting. The practical classes will have a student-centred focus, with students developing a sport education unit for their class to participate in. Students will then analyse a skill or concept within a particular sport. Each student will be required to provide feedback about the specific skill or concept and design and deliver an activity to improvement the performance of that skill.

PE_102 - Physical Education - Focus on Fitness

This subject will focus on developing a better understanding of the various systems within the body and their role in creating human movement. Students will better understand the components of fitness, training methods and principles that athletes and sporting teams use to develop and improve their fitness levels, appropriate to the demands of their sport. Note that if you are interested in studying PE at VCE level, this is the elective that you want to choose.

PE_103 - Physical Education - Recreation: Epping & Beyond

This subject will look at what activities members of the community engage in away from the sporting arena. In this unit students will focus on developing knowledge focused on the following questions:

1. What do people who don’t play sport do to engage in Physical Activity?
2. What is Recreation? How does it differ from sport?
3. What are the Health benefits of participation in regular physical activity and health consequences of physical inactivity and sedentary behaviour are explored at individual and population levels.
4. What factors facilitate involvement in physical activity and consider barriers to participation for various population groups.

Student will also have the opportunity to participate in recreation activities including: Golf, Aerobics, Archery and Fitness.
Science

**SCI101 - Engineering**
This class focuses on all STEM subjects (Science, Technology, Engineering & Math) using industry standard software and it introduces students to the world of engineering. Using scientific knowledge and math, it is designed for students to use creative reasoning to solve real world problems. By conceptualising a solution to a problem, engineering the concept, and analysing the finished product, students start to understand where engineering can take them.

Students will:
- Use creative reasoning to solve real world problems
- Identify & create possible solutions
- Collect and Analyse scientific data
- Record results and communicate information

**Who would want to study this subject?**
Anybody who wants to use math, scientific knowledge, and, most importantly, creativity to develop practical technology that helps society in any number of fields.

**Where might this subject lead in future?**
Engineers are involved in all areas of technology, including electronics, medicine, transportation, energy, new materials ... anything you can imagine.

Engineers fix things that are broken, improve those that work and come up with new inventions. Engineers help move the world toward a brighter future by solving problems with pollution, finding ways to harness new energy sources, producing new medicines, and building new structures. Engineers help people.

This subject allows students to access all VCE science subjects.

**SCI102 - Genetics, Natural Selection & Evolution**
Genetics is the science of genes, heredity, and variation in living organisms. It operates in combination with environmental factors to determine exactly how living organisms, including ourselves, develop and survive throughout their lifetime.

In this subject students will be looking in detail at the molecular structure and function of genes, as well as patterns of inheritance, and gene distribution, variation and change in populations. This subject will help students to better understand content that is covered in the Year 11 and Year 12 VCE Biology course.

Students will:
- Use microscopes to view DNA and the division of cells
- Follow a scientific method to extract DNA from cells
- Learn techniques to determine modes of inheritance and genetic mapping
- Compare and contrast the positive and negative impacts of genetic mutations, and discover how they arise
- Analyse evidence supporting Darwin’s theory of evolution
- Evaluate genetic variation within populations and its relevance to conservation
- Debate the ethical considerations surrounding the study of genetics

**Who would want to study this subject?**
If you are wanting to complete VCE Biology or if you just want to know more about areas such as selective breeding, genetic engineering, cloning, evolution of species, and how to conserve those species that are still on earth, then this is the subject for you.

**Where might this subject lead in future?**
This subject supports students in developing knowledge and skills that could see them become Geneticists, Doctors, Conservation Biologists, University lecturers, Animal breeders, Animal rights campaigners, DNA analysts. More importantly the subject will provide students with an understanding of real world issues that will impact on decisions they may need to make in the future.
SCI103 - Forensic Science

Students will be asked to read, research, hypothesize, interview, compute and use deductive reasoning to propose crime solutions. With an ever increasing use of technology, the students will record data, draw conclusions, and formulate the best method for communicating results.

It connects subject areas and reflects what happens within the real world. Through forensic science, students become involved in many disciplines of study. It uses what is actually happening in the community, country and the world as its classroom and lab. As the student’s improve on lab skills and procedures, they will exemplify what occurs in solving crimes. As they improve their deductive reasoning and critical thinking skills, they will develop a lifelong learning style.

Students will:
- Critically think through and formulate problems.
- Identify and investigate probable solutions.
- Properly collect and scientifically evaluate data.
- Record results and draw logical conclusions based on the evidence.
- Apply data to the given authentic situations.
- Evaluate the most effective means of delivering the information.
- Communicate the results of the work.

Who would want to study this subject?
The Forensic Science class incorporates all 4 VCE Science subjects, Biology, Chemistry, Physics and Psychology, in the core content. However it doesn’t link as directly to the VCE content as some of the other Science subjects offered.

Where might this subject lead in future?
The subject is designed for students who may want to pursue a career in criminology, law or those that are interested in joining the police force.

SCI104 - Consumer Chemistry

Every day you consume (use) chemicals. You eat them in your food to make it taste better and last longer. You use them to wash yourself, your clothes and your dishes. You use them to make you smell nice and look good, and when you’re sick you take them to feel better. Consumer chemistry is about all the chemicals that you use around the home.

In consumer chemistry you will find out what’s in your household food, detergents, cosmetics and medicines. You will even get to make some household products yourself. The secrets of a new and improved formula will be revealed.

Students will:
- Understand the role of chemistry in their everyday lives.
- Build a knowledge of safety and toxicology.
- Test and compare the performance and properties of household chemicals.
- Develop their own household products.

Who would want to study this subject?
Students who are interested in any form of product manufacturing would enjoy this class. It is designed to inform students about how a lot of the products around them are made, whilst demonstrating that they can actually make a lot of these products themselves.

Special requirements
$40 fee. The money will go towards funding the purchase of ingredients to make their products. Students will be allowed to take these products home with them for their own personal use.

Where might this subject lead in future?
The subject is targeted towards students who are interested in analysing products that are on the shelves, making some products of their own and demonstrating that it is possible to formulate your own product and go into business selling it.
Industrial Chemistry is a branch of science that looks at the processes behind moving chemistry from the lab-scale to the production-scale. Students will investigate several areas of industrial chemistry including: Plastics/Polymers (Introductory Organic Chemistry), Electrochemistry (The Production of Batteries), Surface chemistry (The role of detergents and soaps) and nanotechnology. Furthermore, students will perform a case study which will detail the mass production of at least 1 important industrial chemical and the chemical processes required to manufacture it. Students will:

- Critically evaluate and perform case studies which look at real world industrial chemistry applications
- Investigate the role of various plastics in society
- Learn the various processes used to create different polymers/plastics
- Use reasoning to move concepts from the lab-scale to the production-scale
- Analyse the importance of various industrial chemicals (and specifically their applications to society)

Who would want to study this subject?
This subject looks at various areas of chemistry that will, in turn, prepare students for studying VCE chemistry. Furthermore, Industrial Chemistry is an area that incorporates all aspects of science from the development of appropriate, consumer based chemicals, to the mechanical engineering required to build machinery capable of large scale production of chemicals. Any student with an interest in how chemicals are produced, marketed and everything in between should consider undertaking the Industrial Chemistry selective.

Special requirements
$40 fee. The money will go towards funding the purchase of ingredients to make various lab-scale products. Students will be allowed to take these products home with them for their own personal use.

Where might this subject lead in future?
Industrial Chemistry looks at a vast array of processes that are involved in moving a chemical from the lab to the market. The subject has applications in chemistry, physics, chemical engineering, business, marketing and a variety of other areas. This should act as a precursor as to what students can expect in VCE chemistry and beyond.

![Diagram of industrial chemical production process]
Technology

TEC101 – Product Design and Technology

The main focus of this unit is on development of skills in making a consumer product combining a range of materials. While the emphasis will be on student initiated projects there will be a compulsory component to ensure specific manual skills and knowledge are gained.

Students will be expected to demonstrate a sound understanding of the relationship between construction processes and a safe working environment. Students are taken through the realisation of a product from design concept through to production of the final piece of work. They further develop skills in technical drawing and computer-aided design, and investigate its relationship with modern product manufacture techniques.

In addition to small skills development projects students will be required to complete a major product for assessment. Students will be required to pay for the material for this major project.

A complete cost analysis of their project will need to be approved by parents before construction can commence; this should be in the range of $10 - $20 depending on the size of the project. Additional costs for practice material, adhesives, paint etc. will be covered.

TEC102 – Engineering – Metal and Technology

The main focus of this unit is on development of skills in the use of metal manufacturing techniques including welding, milling, and wrought iron techniques. While the emphasis will be on student initiated projects there will be a compulsory component to ensure specific manual skills and knowledge are gained. Students will be expected to demonstrate a sound understanding of the relationship between construction processes and a safe working environment.

Students are taken through the realisation of a product from design concept through to production of the final piece of work. They further develop skills in technical drawing and computer-aided design, and investigate its relationship with modern product manufacture techniques.

In addition to small skills development projects students will be required to complete a major product for assessment. Students will be required to pay for the material for this major project.

A complete cost analysis of their project will need to be approved by parents before construction can commence; this should be in the range of $10 - $20 depending on the size of the project. Additional costs for practice material, welding gear adhesives, paint etc. will be covered.
TEC103 - Food
Students will further develop their design and production skills by cooking a variety of food products. They will be required to investigate and evaluate issues to do with food and its role in health, food preparation and presentation.

*There will be a cost of $60.00 per semester towards the cost of resources.*

TEC104 - Game Design
Of course you can’t play computer games for a living …. Or can you? This is one of the fastest growing industries and to be successful in this industry requires creativity and problem solving skills. But the skills you learn in this class are not just for game design. These are the skills of the 21st Century and can be transferred to any other number of careers, including jobs in the medical and agricultural fields.

This elective gives students the opportunity to learn how computer games / applications are designed and work and to then create their own game / app based on this knowledge.

It allows for students to reach their full potential from the novice beginner, through to more experienced ‘programmers’ or those who already have an understanding of game design and production.

Students will be given a short lecture style presentation at the start of the class in addition to the self-paced video lessons covering initial game ideation, storyboarding, level design, prototyping, play testing and publishing. Depending on the level of the student, they can then either adapt new technologies (i.e. 3D depth sensor cameras)

Students will be required to develop a storyline of the game and character creation (for marketing purposes – of course……).

TEC105 - Programming & 3D Printing
In this class, you will learn how to read and write code. The foundation of all computing. You will also learn how to Design and Print 3D Models. The end result will be a device that does what you have programmed it to do. From robots, to e-textiles (pictured), even to making your own flying drones for the truly dedicated.

This class uses digital electronics, and you will make a finished product that you have designed. This class will involve a lot of work, and some optional after school classes to ensure everything is finished – but the rewards from putting the effort into this class will be rewarding.

*Where it might it lead in the future*
This can lead to almost any career in the future, as computers come into every aspect of our lives. From Fashion, to eHealth Medicine, even to Robots and Games. The skills you learn in this class will help you in Year 11 Computing and Year 12 Software Development. Along with almost any career you can think of.
Accelerated Learning Program

It is not uncommon for year 10 students to take on a unit 1/2 subject and we encourage students to do this as it has many advantages including:

- Increase academic challenge for students
- Experiencing the rigor of VCE studies in year 10 can help students to develop the skills that they will need to perform well in the VCE
- It allows students to space out their studies in VCE more which can help with managing exams and assessments later on (in that doing a mix of year 11 and 12 subjects in the second and third year of senior school can ease the stress of year 12 pressures).

Things to note about the program:

- It is open to all everyone however, students wishing to take on a VCE subject must have demonstrated the capacity to manage this step up in academic rigor to their teachers.
- All students involved in the ACE program should be considering one VCE subject as well as their English / Maths extension subjects.
- Extended investigations is offered as a prelude to the unit 3-4 sequence in this subject. It is not, technically, a VCE subject at year 10 but it does lead to a year 12 subject the following year if completed successfully. All ACE students are advised to select this subject.

Extended Investigations

This subject provides and introduction to VCE Extended Investigation. This subject enables students to develop, refine and extend knowledge and skills in independent research and carry out an investigation that focuses on a rigorous research question. The investigation may be an extension of an area of curriculum already undertaken by the student or it may be completely independent of any other study in the student’s VCE program. Through this study, students develop their capacity to explore, justify and defend their research findings in both oral and written forms to a general, or non-specialist audience.

Students who study this subject will be supported to use the same methodologies used in academic research to identify a problem or question to investigate, design an investigation or research of that problem and then report their findings in a range of ways.

Who would want to study this subject?
This is a very student directed subject and, hence, it requires a good level of responsibility and maturity by students wishing to study it. All ACE program students are encouraged to take on this program.

Where might this subject lead in future?
This subject is a great way to develop research skills which will help students with all of their VCE studies regardless as to whether they choose to continue to do the year 12 course next year.

VCE subjects

Only a small number of VCE subjects will run as part of the year 10 program and which subjects run will be determined by student choice and numbers. Students interested in studying a VCE subject are encouraged to list three preferences for this reason as their first preference may not run due to low numbers.

The summaries below are those subjects that tend to be popular at this level and have run in the past. Students may chose other subjects, however, and should consult the VCE handbook if interested in exploring which other subjects might be offered (or talk to you teachers about your areas of interest).

Access to VCE subjects is not guaranteed as students must be able to demonstrate (through their application to their studies in year 9) that they are able to take on the extra commitment and rigor of the VCE program.
## VCE Business Management

### Unit 1
**PLANNING A BUSINESS**
You will:
1. Describe how and why business ideas are created and developed.
2. Describe the external environment of a business and explain how the macro and operating factors within it may affect business planning.
3. Describe the internal business environment and analyse how factors from within it may affect business planning.

### Unit 2
**ESTABLISHING A BUSINESS**
You will:
1. Explain the importance when establishing a business of complying with legal requirements and financial record keeping, and establishing effective policies and procedures.
2. Investigate how businesses are marketed.
3. Evaluate the staffing needs of businesses and investigate the limitations and benefits of management strategies in this area.

## VCE Health & Human Development

### Unit 1
This unit focuses on the health and individual human development of Australia’s youth. There are many factors that influence health and individual human development of youth, including the importance of nutrition. In this unit students identify issues that have an impact on the health and individual human development of Australia’s youth. Students investigate one health issue in detail and analyse personal, community and government strategies or programs that affect youth health and individual human development.

### Unit 2
This unit focuses on the health and individual human development for the lifespan stages of prenatal, childhood and adulthood. In this unit students identify issues that affect the health and individual human development of Australia’s mothers and babies, children and adults. Students investigate health issues in detail and analyse personal, community and government strategies and programs that affect the health and individual human development of mothers and babies, children and adults.

## VCE Psychology

### Unit 1
In this unit students will investigate how our understanding of the brain structure and function has changed over time and how the brain enables us to interact with the world around us. Students explore how brain plasticity and brain damage can affect a person’s functioning and how biological, psychological and social factors influence different aspects of a person’s psychological development.

### Unit 2
In this unit students explore two aspects of human perception – vision and taste and will analyse the relationship between sensation and perception of stimuli. They will investigate the interplay of biological, psychological and social factors that shape the behaviour of individuals and groups and will consider how these factors are used to explain particular individual and group behaviours. This unit looks at attitude formation, prejudice, discrimination, helping behaviour and bullying.