Descriptions for Year 10

Academic Electives & VCE 2016
INTRODUCTION
The Year 10 elective program at Gleneagles is made up of two elective blocks per semester, with subjects running for 5 periods each. The electives on offer are designed to prepare you for future pathways in year 11 and 12.

An important feature of the Year 10 elective program is the offering of VCE subjects. Year 10 students are being offered the opportunity to complete two units of their VCE during Year 10. The VCE subjects listed below are being offered to Year 10s for 2016. What subjects run is dependent on student choice and the Year 11 blockings. Where students have selected a VCE subject that isn’t running, they will be given first priority and re-counselling regarding other options.

Biology, Business Management, Environmental Science, Geography, History Twentieth Century, Legal Studies, Physical Education, Computing (Information Technology), Health & Human Development,

Students who apply to do a VCE subject will be required to complete both Units 1 & 2, taking up one elective block in each semester. There is a separate application form for selecting VCE in Year 10 see Team Leaders for more information.

ELECTIVE only PROGRAM

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ELECTIVE PROGRAM WITH A VCE SUBJECT INCLUDED

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Each VCE unit takes 5 periods for a semester, so students can select two VCE with approval.

It is important that students and parents read through the course descriptions carefully before making any decisions.
For some electives there is a need to charge a levy to cover the cost of materials, including printed matter. Please take the levy into consideration when making your choices as payment of the levy is a condition of enrolment in the subject.

A wide range of electives have been offered to ensure that students can choose courses that they would find interesting and challenging. Languages and EAL electives run for the year and will take up both blocks as a result.

In 2016, Year 10 students will study:

- English: 5 periods per week for the year
- Mathematics: 5 periods per week for the year
- Science: 4 periods per week for the year
- Humanities: 4 periods per week for the year
- Physical Education: 2 periods per week for the year
- Elective/VCE: 5 periods per week for a semester
- Elective/VCE: 5 periods per week for a semester

Students need to select 7 electives. If you have trouble selecting fee paying electives please see the bursar.
The elective structure is more complex at year 10 with the inclusion of the VCE offerings. Every effort will be made to get as many students as possible their first choices but it is important that students seriously consider their extra three choices.
TECHNOLOGY

Information Technology, Animation, Programming & Web Design
This is an introductory course suitable for students who did not do the year 9 IT electives. The course will introduce students to programming concepts and computational thinking strategies to enable students to design and develop their own computer game. Students gain an understanding of the structure of programs including the use of variables, conditional processing and basic program logic and decision making using Scratch. They will also learn about designing and building a website including how to plan the layout, to organise information, edit and manipulate images, audio and video files. Work will be documented in an e-portfolio.

Cost: Nil

Enhanced IT Applications
This subject is designed to extend students’ knowledge and appreciation of Information Technology. Students undertaking this course will be expected to have some familiarity with a range of ICT applications as provided in the year 9 Information Technology elective in 2015. Students will use a range of software packages including:

- Actionscript programming in Adobe Flash
- Javascript coding using Khan Academy
- Advanced Microsoft Excel functions and features
- Explore other web building software such as WordPress, Weebly etc

These packages will be used to create various products designed to educate, persuade, inform, entertain and communicate. Students will enhance their problem solving skills solve a range of problems and will be able to communicate their ideas in a variety of ways. Assessment requirements include folios, classwork, and projects on Information Technology, Animation, Web Design and Research.

Cost: $15

Technology (Wood and Metal)
In this course students will plan and construct small furniture items for the home. They will learn to prepare and construct working designs. They will investigate ways in which different materials and processes can be used in the construction of their models, and they will learn to manage tools, machinery and processes safely and efficiently. Integrated tasks will address OH&S standards, project management skills and new developments in the manufacturing industry. This subject is intended for students wishing to pursue further studies at senior levels in VCE Design and Technology, VET Building and Construction or entering a trade involving use of wood.

Cost: $45
Metal Sculpture
This subject will introduce students to the techniques, tools, processes and safety practices used in the creation of sculptural pieces. Students will study the basics of composition and manipulation and increase their aesthetic awareness. Activities will encourage critical thinking, decision making and problem solving. Students will learn the basics of welding and forming metals, as well as analysing other works of sculpture through reading, discussion and critique.

Cost: $40

Technology (Glass)
This course explores both cold and warm glass production. Students will be instructed in OH&S standards and they will work through a series of structured projects. They will learn to prepare designs, select appropriate glazing techniques and produce a diverse range of finished work. Students will also explore mosaic glass art and design and produce fused glass jewellery and home wares. This subject is intended for students wishing to pursue further studies at senior levels in VCE Studio Art or VET Industrial Design.

Cost: $55

Technology (Fashion Design and Construction)
During this subject students will study three key components:

History - Students will learn about the history of fashion, with a focus on the changes and development of clothing through the ages up to present time. They will look at the social, economic and cultural reasons behind fashion choices and the changes in the role of women in history and how this has been reflected in their clothing choices and options.

Fashion Design – Students will learn the different features of current major fashion houses around the world. They will also learn how to design and develop their own fashion drawing skills through the production of a detailed design folio.

Production – Students will design and produce their own garments. They will learn how to hand sew, use sewing machines, overlockers and create patterns from their designs for production. Students will be required to purchase necessary items from the booklist as well as their own fabric for their production piece.

Cost: $20

Master Class - Bakehouse
Students will use the design process to create decorated cakes, gingerbread houses and other special occasion products. The skills and knowledge acquired through this elective will enhance students understanding of the demands of VET Hospitality and give them a glimpse of career pathways in the food/hospitality industry including chocolatier, baker and pastry chef! This course is designed to build skills in all types of sweet and savoury baking including cake making and decorating; sugar craft and icing techniques; chocolate and confectionary making and other complex processes.

Cost: $100
Master Class – The Menu
This elective is designed to prepare students for VCE Food and Technology & VET Hospitality and will provide some insight into a career pathway in the food/hospitality industry including dietician, food technologist and chef. This course explores all aspects of the menu from hors-d’oeuvres to desserts and all the courses in between, including soups, sauces, entrees, main meals and side dishes. Students will build on their knowledge of key nutrients and foods and use the design process and a variety of cooking methods to produce high quality menu items. Cost: $150

PERFORMING ARTS

Music Performance
Students currently learning an instrument, or who intend to learn, are strongly recommended to choose this subject in order to keep their options open for VCE Music. The emphasis will be placed on practical work with students developing their skills on their instruments or voice by participating in solo or group work. Students may use this time to rehearse for upcoming performances such as Variety Night. This subject will incorporate a wide variety of listening and creative tasks, including the use of current music computer technology. Students will develop skills in composition techniques and they will be required to complete relevant theory exercises at their own level. Students will continue to develop their aural skills. Topics covered in the written component will include an introduction to Jazz and 20\textsuperscript{th} Century music. The levy is required to cover the replacement of guitar strings, drum skins, headphones and other related costs. Cost: $15

Theatre Production
Through a combination of Drama and Theatre Studies, students will be involved in the direction, producing, design and performance of a class production. They will draw from their previous experience in Year 9 Drama and further learn a wide range of performance skills to confidently and successfully put on a production for an audience. Students will not only develop performance skills, dramatic techniques and team building skills but also learn about theatre stagecraft design in creating their production. These will include the design and creation of costume, sound, props, lighting, etc., culminating in a stagecraft design folio assessment. Students choosing this elective must be prepared to participate in a performance in front of various audiences. Students may also have the opportunity to see a professional theatre performance and write a review of someone else’s theatrical work. Cost: Nil
VISUAL ARTS

Studio Art
Students will be required to investigate and analyse the works of other artists, sculptors and art styles, past and present. Create art works in 2D and 3D and develop drawing and construction skills using a range of techniques and materials. You will develop a folio containing the research and generation of ideas and experiments with various media. Techniques and materials applied generally include painting, pastels (wet and dry), computer images, printing, water colour pencils, collage, charcoal, inks and dyes, specialised papers, clay, hand building, under glazing, glazing, slip decoration, and using moulds. Assessment is based on a visual diary containing visual aids, construction notes, preliminary drawing and experiments, a theory component and completed finished art works.

Cost: $55

Visual Communication
Want to be a graphic designer? Visual Communication introduces students to all the basic techniques and knowledge required to create designs and drawings for commercial use. Students will learn what makes an eye catching design or logo for an advertisement or a product. They will cover drawing techniques such as those used by an architect. Students will be required to respond to design briefs and produce final designs that target the client and public’s needs. They will investigate the works of other designers and their practices, both past and present. Areas covered generally include:

- Drawing methods such as perspective and paraline
- Design principles (how to create good design in composition)
- Rendering techniques
- Design process (the steps taken to develop, experiment and perfect designs)
- Computer technology
- Use of a range of materials (markers, ink rendering, gouache)

Assessment is by visual diary containing preliminary drawings, visual aids, notes on solving design and construction, a folio of graphic finished work and an investigation based on the process of design in past and present practices.

Cost: $40

Media Reloaded (Film and Photography)
In Media Reloaded students will explore what it means to be a media creator and consumer in the digital age through the mediums of digital video and digital photography. This unit will allow students to improve their skills using the Digital SLR cameras and editing software. Media artefacts produced by Gleneagles students may be entered into competitions, exhibitions and publications. Assessments include workbook, in class projects and folio completion.

Cost: $40
World Cinema

Forget Hollywood, the best films are a little off the beaten track. In this class you will learn to love foreign films from around the world. Films from other cultures can tell us a lot about the place they were made, through whose story they tell and what they find to be important. You will also learn how to dissect films using production and story elements. From Japanese animation to French comedy - see what the rest of the world has to say.

This subject has strong connections with VCE Media and would support students interested in VCE Literature.

Cost: Nil

SPORT

Get Physical

This subject will look at the human body from a physical activity and fitness perspective. It will investigate how the body changes and develops in response to physical activity. Students will explore Physical Education topics such as body systems (muscular, circulatory, respiratory and skeletal systems), fitness components, energy systems, principles of training and physical activity promotion initiatives.

This subject is designed to prepare students for VCE Physical Education. It would suit students who are interested in a future career pathway in health science, sports science, human movement, teaching, health promotion, nutrition or as a dietician.

Cost: $5

Inside Health

This subject will look at the human body from a health perspective. It will investigate how the body changes and develops as it moves through the different stages of the lifespan. It will look at Health topics such as human development, nutrition, agencies involved in health promotion and specific health issues throughout the lifespan.

This subject is designed to prepare students for VCE Health and Human Development. It would suit students who are interested in a future career pathway in health science, sports science, human movement, teaching, health promotion, nutrition or as a dietician.

Cost: Nil

Principles of Sport

This course will be structured so that one double period will be timetabled against Year 7 Sport Education. Students will nominate two sports in which they wish to develop specific coaching skills. They will work as peer teachers in pairs or groups of three each term for a different sporting group. Theory classes will be allocated weekly for students to write up lesson plans. They will be given access to coaching manuals and resources and will be required to evaluate previous lessons and plan accordingly. Sport Education staff will be given an evaluation sheet to assist students to become effective coaches. All students will have the opportunity to attain their Level O accreditation through the accredited sporting organisation in a chosen sport. Students will also be exposed to an Event Management component during the course in which they will work closely with the teacher and wider school community to help implement whole school events and support the Gleneagles House System.
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<tr>
<td>Level O accreditation</td>
<td>Football (AFL)</td>
<td>Basketball (Victorian Basketball Association)</td>
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<tr>
<td>(coaching/umpiring)</td>
<td>Grid games at MCG</td>
<td>Netball (Victorian Netball Association)</td>
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<tr>
<td>Event Management</td>
<td>Swimming Carnival</td>
<td>Athletics Carnival</td>
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<td>Cross Country Carnival</td>
<td>House System</td>
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This subject is suited to students looking at a career in the Sporting Industry. It gives students the opportunity of broadening their interests in a variety of sports while gaining valuable exposure to many aspects of the sporting industry. The levy covers the cost of necessary equipment, photocopying, lesson plan booklet, coaching manuals, whistle and level O accreditation.

Cost: $50

**LANGUAGES & EAL**

**LOTE – German**
This subject is a **year course** and is designed to equip students with the skills and knowledge necessary to achieve success in VCE LOTE. At VCE level, a few subjects attract bonus marks and LOTE is one of them. Over two semesters, students will improve their grammatical accuracy, oral and written fluency as well as listening and reading comprehension through the study of a variety of topics and integrated grammar. A range of resources will be used, including movies, television programs, songs and authentic texts, giving students the opportunity to become more familiar with the culture of the countries whose language they are studying. Students will use ICT to expand their skills and competencies in the chosen language, particularly to assist in developing their listening, reading and writing skills. Excursions will expose students to the language beyond the classroom.

Cost: Nil

**LOTE – Indonesian**
This subject is a **year course** and is designed to equip students with the skills and knowledge necessary to achieve success in VCE LOTE. At VCE level, a few subjects attract bonus marks and LOTE is one of them. Over two semesters, students will improve their grammatical accuracy, oral and written fluency as well as listening and reading comprehension through the study of a variety of topics and integrated grammar. A range of resources will be used, including movies, T.V. programs,
songs and authentic texts, giving the students the opportunity to become more familiar with the culture of the countries whose language they are studying. Students will use ICT to expand their skills and competencies in the chosen language, particularly to assist in developing their listening, reading and writing skills. Excursions will expose students to the language beyond the classroom.

Cost: Nil

**EAL (English as an additional language)**

EAL is designed to assist students from a non-English speaking background to improve their English language skills and is a year long course. Students who have been living in Australia for less than seven years and are from a non-English speaking background are eligible to enrol in this unit. In some cases, students who are not automatically eligible may be able to select this subject. It aims to increase the student’s English language communication and written skills through a variety of activities and experiences, so that the student can interact meaningfully in school-based and interpersonal contexts. Fieldwork and excursions provide the opportunity to interact with the wider school community.

Cost: Nil
Science Skills
This elective offers students the opportunity to develop the scientific skills necessary to demonstrate the knowledge they will gain over the course of their VCE science studies. Furthermore, the subject seeks to build the key knowledge and skills that is required of students studying VCE sciences (biology, chemistry and physics). The curriculum delivered in science skills is tailored towards the students enrolled in the class and their desired pathway in years 11 and 12.

Students will also have the opportunity to improve their general practical skills by trialling a range of equipment and procedures that they will be required to perform in future science studies. These skills may include outdoor field work, as well as intricate and precise procedures in the science laboratory. The range of topics covered in the subject may include: cellular functioning, chemical reactions, electricity, practical report writing, scientific research, conducting investigations, interpreting exam questions, analysing data for practical discussion, practical field work, use of specific chemistry equipment in the area of titration and the use of physics specific equipment, such as laser lights, Geiger counters and radio isotopic materials.

Cost: Nil

Environmental Science
Are you concerned about the Planet generation X will inherit? Are you curious about Climate change, our rapidly changing planet and other key environmental issues of the 21st Century? If yes then Environmental Science is for you! We will focus on the diversity in ecosystems, understanding populations, and water and land sustainability. We will discuss and explore many complex and interrelated social, ethical and scientific elements, as well as various Biological and Chemical concepts whilst enhancing your critical thinking, scientific analysis and problem solving skills. We explore energy resources and the complexity of human impact on the environment and the influence the environment has on humans. A great introduction to a field that is increasingly in the spotlight.

Cost: Nil

Psychology
Have you ever wondered about what determines happiness or meaning in life, your personality and intelligence, how the brain influences behaviour, how we use motivation to achieve goals in sports and other aspects of daily life, what your dreams mean and why some people commit crimes?

In this introductory Psychology subject, students will examine a range of topics including personality, neuropsychology, forensic psychology, sports psychology, scientific method and report writing, dreams, abnormal behaviours such as phobias, mental health disorders and positive psychology. It is designed as a subject to prepare students who intend to study Psychology at VCE level by equipping them with a foundation of skills and knowledge necessary to succeed within VCE Psychology studies. It is a subject that would suit a student intending to pursue careers in business, health care, personal services, management, education or any field which involves significant interaction with people.

Cost: Nil
Maths Enhancement
This subject will provide preparation for high-achieving students who are wishing to study Mathematical Methods in VCE and possibly Specialist Mathematics. Students will have the opportunity to preview many of the topics that are studied in these subjects. Topics that will be studied include: Surds, Matrices, Unit circle, Polynomials and transformation of functions. Students will use a CAS calculator in this course to further enhance their technology skills. Interested students should be capable and interested in mathematics, with the intention of studying it at VCE. Cost: Nil

Catch Up Maths
This course is designed to provide support for students who have experienced difficulties with some aspects of their Mathematics or have gaps in their understanding. It is aimed to provide students with greater opportunity for review and consolidation of the material covered to achieve a strong foundation in essential maths skills. Cost: Nil

Commerce/Law
This subject is designed to focus on development of skills and knowledge in preparation for studies at VCE level in Business Management and Legal Studies. The range of activities reinforces learning and understanding of these subjects to give students a taste of potential future pathways at VCE. Skills relevant to both VCE subjects include examining real-life case studies, applying legal and business theory to cases, critical thinking and key vocabulary belonging to the business and legal professions. A range of topics include criminal and civil law, famous criminal trials, types of criminal and civil law, managing a small business, enterprise and innovation. Cost: Nil

Global Studies
This subject is designed to focus on development of skills and knowledge in preparation for studies at VCE level in History, Geography, and Global Politics. Skills will be developed in general knowledge of international issues in the past and present, spatial concepts and geographical characteristics, critical analysis of a variety of sources, both visual and text based, evaluation of evidence and development of justified contentions, considering a variety of perspectives of an issue and written expression of knowledge and viewpoints. A range of topics will be introduced including terrorism, key political leaders, forms of government, globalisation, human rights and inequality within the world. Cost: Nil

Literature
The study of literature focuses on the enjoyment and appreciation of reading that arises from discussion, debate and the challenge of exploring the meaning of literary texts. Students reflect on their own and the interpretations of others. This elective will develop essential
skills for students interested in studying VCE Literature. Students will be expected to read and review a variety of novels, plays, poetry, films and essays.  

**Linguistics**  
The study of linguistics focuses on the fundamentals of language and how it has evolved over time. Students will be expected to analyse structures, features and functions of spoken and written English. They will investigate language changes and must be able to identify the various parts of speech. This elective will develop essential skills for students interested in studying VCE Language.  

**VCE SUBJECTS**

- VCE Computing Units 1 & 2  
  Cost: $40
- Physical Education Units 1 & 2  
  Cost: $40
- Business Management Units 1 & 2  
  Cost: Nil
- Biology Units 1 & 2  
  Cost: Nil
- Health & Human Development Units 1 & 2  
  Cost: Nil
- Geography Unit 1&2  
  Cost: $40
- Environmental Science Unit 1&2  
  Cost: Nil
- History 20\textsuperscript{th} Century Unit 1&2  
  Cost: Nil
- Legal Studies Unit 1&2  
  Cost: Nil
**SCOPE OF STUDY**

VCE Computing focuses on the application of a problem-solving methodology, and strategies and techniques for managing information systems in a range of contexts, to create digital solutions that meet specific needs. The study examines the attributes of each component of an information system including people, processes, data and digital systems (hardware, software, networks), and how their interrelationships affect the types and quality of digital solutions. VCE Computing is underpinned by four key concepts: approaches to problem solving, data and information, digital systems and interactions and impact. An important component of the study is the opportunity for students to develop the shared understanding in social networks that enable cooperation and a cooperative approach to problem solving. VCE Computing provides students with opportunities to acquire and apply knowledge and skills to use digital systems efficiently and effectively when creating digital solutions both individually and as part of a network.

VCE Computing provides pathways to further studies in IT and to careers in ICT-based areas. It also prepares students for programs that require an IT-related subject or for a range of careers that require efficient and effective use of ICT.

**PRE-REQUISITES:** see application form for details

**UNIT OVERVIEW**

Students focus on how data, information and networked digital systems can be used to meet a range of users’ current and future needs. Students will create a digital solution that graphically presents the information, examine the technical underpinnings of wireless and mobile networks, and security controls. Acquire and apply their knowledge of information architecture and user interfaces, when creating a website. Students also focus on application of computational, design and systems thinking skills to support the creation of solutions that automate the processing of data. They will use programming and scripting languages, databases and data visualization tools to create solutions that are clear, usable, attractive, and reduce the complexity of data.

**TOPIC/ THEMES YOU WILL STUDY**

- Problem solving methodology (PSM)
- Data sources and data collection
- Spread sheet functions and formulas
- Networking technologies
- Project planning
- Website design
- Computer programming
- Data visualisation
- Databases

**ASSESSMENT TASKS** may include:

- Case studies
- Tests
- Quizzes
- Activities
- Written reports
- Programming folio

Physical Education | UNIT 1 & 2

**SCOPE OF STUDY**
The study enables the integration of theoretical knowledge with practical application through participation in physical activities. There are opportunities for students to apply theoretical concepts and reflect critically on factors that affect all levels of performance and participation. This VCE study is suitable for students with a wide range of aspirations, including those who wish to pursue further formal study at tertiary level or in vocational education and training settings. The study prepares students for such fields as the health sciences, exercise science and education.

**PRE-REQUISITES:** see application form for details

**UNIT OVERVIEW**

Unit 1: Bodies in motion
In this unit students explore how the body systems work together to produce movement and analyse this motion using biomechanical principles. They are introduced to the aerobic and anaerobic pathways utilised to provide the muscles with the energy required for movement and the basic characteristics of each pathway.

Unit 2: Sports coaching and physically active lifestyles
This unit explores a range of coaching practices and their contribution to effective coaching and improved performance of an athlete. The approach a coach uses, the methods applied and the skills used will have an impact on the degree of improvement experienced by an athlete.

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<td>• Technological advancements</td>
<td>• Reports</td>
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<td>• Physically active lifestyles</td>
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<td>• Promoting active living</td>
<td>• Written Examination</td>
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<td>• Decision making in sport</td>
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## Business Management

### UNIT 1 & 2

#### SCOPE OF STUDY

VCE Business Management examines the ways in which people at various levels within a business organisation manage resources to achieve the objectives of the organisation. Students develop an understanding of the complexity, challenges and rewards that come from business management and gain an insight into the various ways resources can be managed in small, medium and large-scale organisations.

The study recognises that there is a range of management theories. In each Unit students examine some of these theories and, through exposure to real business scenarios and direct contact with business, compare them with management in practice. In studying VCE Business Management, students develop knowledge and skills that enhance their confidence and ability to participate effectively, as socially responsible and ethical members of the business community, and as informed citizens, consumers and investors.

#### PRE-REQUISITES:

*see application form for details*

#### UNIT OVERVIEW

**Unit 1: Small Business Management**

In Unit 1 students will look at the characteristics of a small business. They will also examine the internal and external environments in the aim of understanding the nature of business in Australia. Students will look at the various stakeholders and issues such as the importance of business ethics and corporate social responsibility.

**Unit 2: Communication and Management**

This unit focuses on the importance of decision making in a business. They will look at the way communication plays a role in both the internal and external environments of a business. Students will be introduced to both marketing and public relations and how both have an important role in the success of a business.

#### TOPIC/THEMES YOU WILL STUDY

- Introducing business
- Small business decision making and planning
- Day-to-day operations
- Communication in business
- Managing the marketing function
- Managing the public relation function

#### ASSESSMENT TASKS may include:

- Reports
- Case studies
- Small business plan
- Running a small business (e.g. Market Day)
- Tests
- Essays
- Written examination

# SCOPE OF STUDY
Biology is a diverse and evolving science discipline that seeks to understand and explore the nature of life, past and present. The study explores the diversity of life and the dynamic relationships between organisms and their interactions with the non-living environment. It also explores the processes of life, from the molecular world of the cell to that of the whole organism, that maintain life and ensure its continuity.

Students examine classical and contemporary research, models and theories to understand how knowledge in biology has evolved and continues to evolve in response to new evidence and discoveries. An understanding of the complexities and diversity of biology leads students to appreciate the interconnectedness of the content areas both within biology, and across biology and the other sciences.

VCE Biology provides for continuing study pathways within the discipline and leads to a range of careers. Branches of biology may include botany, genetics, immunology, microbiology, pharmacology and zoology.

## UNIT OVERVIEW
**Unit 1: How do living things stay alive?**
In this unit 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. They analyse types of adaptations that enhance the organism’s survival in a particular environment and develop an understanding of the processes by which an organisms’ internal environment is maintained.

**Unit 2: How is the continuity of life maintained?**
In this unit students focus on cell reproduction and the transmission of biological information from generation to generation. 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, patterns of inheritance, the role of stem cells, and their potential use in medical therapies.

## TOPIC/THEMES YOU WILL STUDY
- Cell size, structure and function
- Energy transformations
- Functioning systems
- Adaptations and regulation
- Ecosystems
- The cell cycle
- Reproduction
- Cell growth and differentiation
- Genetics and inheritance

## ASSESSMENT TASKS may include:
- Practical investigation
- Media response
- Data analysis
- Annotated report
- Test
- Fieldwork
# Health and Human Development

## UNIT 1&2

### SCOPE OF STUDY

Health is a dynamic condition that is influenced by complex interrelationships between individuals and biomedical and behavioural factors, as well as physical and social environments. These interrelationships are reflected in a social view of health that sees health as being created in the settings where people live and work.

This social view of health recognises the need for personal skills development, the importance of empowering communities to take action to promote health, the creation of social and physical environments that are supportive of health and development, an awareness of the impacts on health of public policies and the need for health services to be oriented towards health promotion and the prevention of ill health.

### PRE-REQUISITES: see application form for details

### UNIT OVERVIEW

**UNIT 1: The health and development of Australia’s youth**

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 for the provision of energy and growth as well as food behaviours and their impact on youth health and individual human development.

In this unit students identify issues that 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: Individual human development and health issues**

This unit focuses on the lifespan stages of childhood and adulthood. Health and development during childhood has been identified as having a significant impact on both health and development throughout the rest of the lifespan. There are many determinants of health and development of Australia’s children; however, social environments such as the family and community are crucial, as children develop through their relationships with others.

The lifespan stage of adulthood represents a period of great diversity. The period of adulthood commonly spans a time frame of over sixty years. The health and individual human development of this group can vary considerably and is influenced by a range of determinants, which include biological and behavioural factors, as well as physical and social environments.

### TOPIC/THEMES YOU WILL STUDY

- Understanding health and development
- Youth health and development
- Health issues for Australia’s youth
- The health and development of Australia’s children
- Adult health and development
- Health issues

### ASSESSMENT TASKS may include:

- Case Study
- Data Analysis
- Test
- Written Report
- Laboratory Reports
- Written Examination

### GEOGRAPHY

<table>
<thead>
<tr>
<th>UNIT 1 &amp; 2</th>
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#### SCOPE OF STUDY

The study of Geography is a structured way of exploring, analysing and understanding the characteristics of places that make up our world. VCE Geography enables students to examine natural and human phenomena, how and why they change, their interconnections and the patterns they form across the Earth’s surface. In doing so, they develop a better understanding of their own place and its spaces and those in other parts of the world. These spatial perspectives, when integrated with historical, economic, ecological and cultural perspectives, deepen understanding of places, environments and human interactions with these. Students explore these questions through fieldwork and investigation of a wide range of secondary sources. These methods underpin the development of a unique framework for understanding the world, enabling students to appreciate its complexity, the diversity and interactions of its environments, economies and cultures, and the processes that helped form and transform them. ¹

#### PRE-REQUISITES: see application form for details

#### UNIT OVERVIEW

**Unit 1: Hazards and disasters**

In this unit students examine the processes involved with hazards and hazard events, including their causes and impacts, human responses to hazard events and interconnections between human activities and natural phenomena. Student will investigate how people have responded to specific types of hazards, including attempts to reduce vulnerability to, and the impact of, hazard events. Types of hazards explored include those from the following categories: geological, hydro-meteorological, biological or technological hazards.

**Unit 2: Tourism**

In this unit students investigate the characteristics of tourism, with particular emphasis on where it has developed, its various forms, how it has changed and continues to change and its impacts on people, places and environments. Students examine the interconnection of tourism with and between places at local, regional and global scales and consider the importance of careful management to ensure environmentally sustainable and economically viable tourism.

#### TOPIC/THEMES YOU WILL STUDY

- Characteristics of hazards
- Response to hazards and disasters
- Characteristics of tourism
- Impact of tourism
- Key geographical concepts
- Geographical skills

#### ASSESSMENT TASKS may include:

- Fieldwork and Fieldwork reports
- Tests/structured questions
- Data analysis
- Case studies
- Reports
- Multimedia presentation
- Folio of exercises
- Exam

## ENVIRONMENTAL SCIENCE | UNIT 1 & 2

### SCOPE OF STUDY

Environmental Science provides the opportunity for students to understand the structure, function and diversity of natural ecosystems on this planet and evaluate the impacts of human activities on them. Students examine strategies to maintain and protect the ecological health of the environment while meeting the needs and desires of human populations.

Environmental Science investigates the interactions between natural and human systems. This study examines the application of environmental science to ecologically sustainable development and environmental management. Students should understand the values and attitudes that underpin environmental decisions and reflect on effective ways for modifying behaviour of individuals and groups for positive environmental outcomes.

While undertaking this study, students will develop skills in practical scientific investigations, environmental fieldwork techniques, report writing, research and analysis.

**PRE-REQUISITES:** see application form for details

### UNIT OVERVIEW

**Unit 1: How the earth Systems are connected**

The Earth has a set of four interacting systems: the atmosphere, biosphere, hydrosphere and lithosphere. Students apply a systems perspective when exploring the physical requirements for life in terms of inputs and outputs, and consider the effects of natural and human-induced changes in ecosystems. They investigate the physical environment and its components, the function of local ecosystems and the interactions that occur in and between ecological components over different timescales.

A student practical investigation related to ecosystem monitoring is undertaken in this unit.

**Unit 2: How can pollution be managed?**

In this unit students explore the concept of pollution and associated impacts on Earth’s four systems through global, national and local perspectives. They analyse the effects of pollutants on the health of humans and the environment over time. They explore the significance of technology, government initiatives, communities and individuals in redressing the effects of pollutants, and consider how values, beliefs and evidence affect environmental decision making.

Students compare three pollutants of national and/or global significance with reference to their effects in the atmosphere, biosphere, hydrosphere and lithosphere, and discuss management options. Students undertake an in-depth case study of the management strategies that apply to a pollutant of local concern related to ecosystem monitoring and/or change.

### TOPIC/THEMES YOU WILL STUDY

- Environments and Ecosystems
- The Sun as an energy source
- Nutrient Cycles
- The Earth’s spheres
- Fieldwork
- Human impact on environment

### ASSESSMENT TASKS may include:

- Practical work
- Field work
- Topic tests
- Exam
**VCE 20th CENTURY HISTORY**

**UNITs 1 & 2**

**SCOPE OF STUDY:**
History is the practice of understanding and making meaning of the historical past. It is also the study of the problems of establishing and representing that meaning. It is a synthesising discipline which draws upon most elements of knowledge and human experience. Students learn about their historical past, their shared history and the people, ideas and events that have created present societies and cultures of the 20th century.

This study builds a conceptual and historical framework within which students can develop an understanding of the issues of their own time and place. It seeks to extend students' cultural, economic, social and political understanding while developing analytical skills and using imagination.

**PRE-REQUISITES:** see application form for details

**UNIT OVERVIEW:**
**Unit 1:** This Unit enables students to learn about the significant changes that occurred during the first half of the twentieth century. Patterns of family life were to change as a result of political and social developments. Advances in science and technology also began to transform the world of work and home for both women and men. Revolution, civil war and international conflicts played a major role during this period. The consequences of these conflicts would change the world forever. Students look at causes and conflicts of World War One and the legacies that erupted after.

**Unit 2:** This Unit enables students to learn about the major themes and principal events of post World War 2, and the ways in which individuals and communities responded to the political, economic, social and technological developments. This Unit will focus on the Cold War and the spread of communism throughout the world and the consequences. The changes in the USA and South Africa as result of the civil rights movements and a look at international incidents that have shaped the latter half of the twentieth century.

**TOPIC/THEMES YOU WILL STUDY:**
- The Russian Revolution
- The Great War
- The Roaring Twenties
- The Great Depression
- Main characteristics of the new political ideas
- the role of class, race, ethnicity, political affiliation, nationality and gender in social experience
- World War II a world perspective
- Korean War
- Vietnam War
- The Cold War
- Political cover up and conspiracy
- The work of a cultural or artistic movements
- group/s which challenged the existing structure of social, political and/or economic order
- The rise of feminism

**ASSESSMENT TASKS**
- Annotated maps
- Short reports
- Essays
- Oral presentations
- Multimedia presentations
- Film reviews
- Biographical studies
- Tests
- Written examination
- Incursion on the “Futurist” movement.
- Meeting and discussions with Vietnam War Veterans
**LEGAL STUDIES**

**SCOPE OF STUDY**
VCE Legal Studies investigates the ways in which the law and the legal system relate to and serve individuals and the community. This knowledge is central to understanding the workings of contemporary Australian society.
Legal Studies examines the processes of law-making, dispute resolution and the administration of justice in Australia. Students develop an understanding of the impact of the legal system on the lives of citizens, and the implications of legal decisions and outcomes on Australian society. The study provides students with an appreciation of how individuals can be involved in decision-making within the legal system, encouraging civic engagement and helping them to become more informed and active citizens.
Students develop an understanding of the complexity of the law and the legal system and the challenges faced by our law-makers and dispute resolution bodies. They investigate the workings of the Australian legal system and undertake comparisons with international structures and procedures. Students are encouraged to question these systems and develop informed judgments about their effectiveness, as well as consider reforms to the law and the legal system.
Students develop an ability to identify, collect and process information from a range of sources and engage in its interpretation and analysis. Skills for independent inquiry, critical thinking and legal reasoning to solve legal problems are also fostered. Students are required to apply legal reasoning and decision-making to contemporary cases and issues. They engage in analysis and evaluation of existing legal processes and form opinions about the operation of the legal system.

**PRE-REQUISITES:** see application form for details

**UNIT OVERVIEW**

**Unit 1: Criminal law in action**
This unit focuses on the need for effective laws in society. Students investigate the key features of criminal law, how it is enforced and adjudicated and possible outcomes and impacts of crime. They learn about different types of crimes and explore rights and responsibilities under criminal law. Students also consider the role of parliament and subordinate authorities in law-making. They investigate court processes and procedures in hearing and resolving criminal cases. Students also explore the main features and operations of criminal courts.

**Unit 2: Issues in civil law**
This unit focuses on civil laws such as negligence and how civil disputes are solved. Another area of civil law is then studied in more detail; contract law, family law, workplace law, sports and the law or environmental law. Finally, students study an Australian case that illustrates rights issues and the empowerment of people, and its impact on the legal system. Within this area, students investigate the role of the individuals/groups, the facts and central issues to the case, conflicting attitudes, relevant laws and the outcome of the case and its impact on the legal system and the rights of individuals.

<table>
<thead>
<tr>
<th><strong>TOPIC/THEMES YOU WILL STUDY</strong></th>
<th><strong>ASSESSMENT TASKS</strong> may include:</th>
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</thead>
<tbody>
<tr>
<td>• Legal and non-legal rules</td>
<td>• Folio and report</td>
</tr>
<tr>
<td>• Law-making – parliament, courts/judges and subordinate authorities</td>
<td>• Mock court</td>
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<tr>
<td>• Criminal law</td>
<td>• Tests</td>
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<tr>
<td>• Dealing with police</td>
<td>• Structured questions</td>
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<tr>
<td>• Courts</td>
<td>• Case studies</td>
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<td>• Adversary system</td>
<td>• Written examination</td>
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<td>• Juries</td>
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<td>• Civil law</td>
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<tr>
<td>• Abuse of individual/group’s rights</td>
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<thead>
<tr>
<th>Elective</th>
<th>Cost</th>
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<tbody>
<tr>
<td><strong>VCE</strong></td>
<td></td>
</tr>
<tr>
<td>VCE Computing - Units 1 &amp; 2</td>
<td>$40</td>
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<tr>
<td>Physical Education Units 1 &amp; 2</td>
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<tr>
<td>Business Management Units 1 &amp; 2</td>
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<tr>
<td>Biology Units 1 &amp; 2</td>
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<tr>
<td>Health &amp; Human Development Units 1 &amp; 2</td>
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<tr>
<td>Environmental Science Units 1&amp;2</td>
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<tr>
<td>Geography Units 1&amp;2</td>
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<tr>
<td>Legal Studies Units 1&amp;2</td>
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<td>History 20th Century Units 1&amp;2</td>
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<tr>
<td><strong>Technology</strong></td>
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<tr>
<td>Information Technology, Animation, Programming &amp;</td>
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<td>Web Design</td>
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<td>Enhanced IT Applications</td>
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<td>Technology (Wood and Metal)</td>
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<td>Metal Sculpture</td>
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<td>Technology (Glass)</td>
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<tr>
<td>Technology (Fashion Design and Construction)</td>
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<tr>
<td>Masterclass - Bakehouse</td>
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<tr>
<td>Masterclass – The Menu</td>
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<tr>
<td><strong>The Arts</strong></td>
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<td>Music Performance</td>
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<td>Theatre Production</td>
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<td>Studio Art</td>
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<tr>
<td>Visual Communication</td>
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<td>Media Reloaded</td>
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<td>World Cinema</td>
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<td><strong>Sport</strong></td>
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<tr>
<td>Get Physical</td>
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<td>Inside Health</td>
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<td>Principles of Sport</td>
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<td><strong>Languages &amp; EAL</strong></td>
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<td>LOTE – German</td>
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<td>LOTE – Indonesian</td>
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<td>EAL (English as an additional language)</td>
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<tr>
<td><strong>Other</strong></td>
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<tr>
<td>Science Skills</td>
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<tr>
<td>Environmental Science</td>
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<tr>
<td>Psychology</td>
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<tr>
<td>Maths Enhancement</td>
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<tr>
<td>Catch Up Maths</td>
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<tr>
<td>Commerce/Law</td>
<td>Nil</td>
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<tr>
<td>Global Studies</td>
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<tr>
<td>Literature</td>
<td>$5</td>
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<tr>
<td>Linguistics</td>
<td>Nil</td>
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