
YEAR 10 COURSE INFORMATION

Mullauna College



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COURSE ORGANISATION

The year 10 program includes a combination of core subjects and elective subjects. Students in year 10 also have the opportunity of undertaking an accelerated placement in a VCE subject.

Year 10 Core Subjects

Students must complete the following core subjects

Core Subjects	Duration
English <ul style="list-style-type: none">One of English or Advanced English	2 semesters
Mathematics <ul style="list-style-type: none">One of Mathematics, Advanced Mathematics or Foundation Mathematics	2 semesters
Humanities <ul style="list-style-type: none">One of Accounting, Business Management, Conspiracies of the 20th Century, Crime & Punishment, People and Places, Wars, Rights and Freedoms	1 semester
Science <ul style="list-style-type: none">One of Chemistry, Disease and Immunology, Physics or Who You Are	1 semester
Health & Physical Education	1 semester

Year 10 Elective Subjects

Students must select 5 electives from the list below. Each elective subject is for one semester except for German which is undertaken for the entire year. Students may not undertake the same elective twice in any year.

Accounting	Entertaining with Food	Physics
Business Management	German	Programming Applications
Chemistry	Health in our Hands	Shape Up, Skill Up
Conspiracies of the 20 th Century	Media	Studio Art
Crime & Punishment	Mullauna Masterclass	Wars, Rights and Freedoms
Drama	People and Places	Who You Are
Disease and Immunology	Photography	Visual Communication & Design

The range of year 10 subjects offered will depend upon the number of students selecting each subject.

It is strongly recommended that students proceed with their study of German through to VCE because of the increments this provides in a student's Australian Tertiary Admission Ranking (ATAR) score. Students who include German and Higher Level Mathematics in their VCE studies are eligible to be awarded the VCE Baccalaureate. This is highly regarded by tertiary institutions when considering students for admission.

Accelerated VCE subjects

Advanced students may be allowed to attempt one VCE Unit 1 & 2 or VET subject in year 10. This subject replaces 2 elective choices. Students wishing to undertake this option must complete an application to undertake a VCE Unit 1 & 2 study in year 10.

In addition to introducing the assessment processes related to the VCE, this option also prepares students for undertaking a Unit 3 & 4 study in year 11, thus enhancing their ATAR score in year 12.

Access to the VCE for year 10 students will depend upon availability of places and timetable considerations. The following options are available as accelerated subjects in 2021:

Biology	Legal Studies
Business Management	Media
General Mathematics	Physical Education
Health and Human Development	Psychology
History (20 th Century)	Studio Art

ASSESSMENT

There are three modes of assessment at year 10.

1. Assessment Tasks

A grade will be awarded for specific tasks and projects. The grades indicate how well the student is performing in these areas of the unit.

There will be a minimum of three assessment tasks, as well as an exam, for each unit. Assessment tasks can include major projects, topic tests, written reports, oral presentations and folios. A grade will be awarded for each task.

To satisfactorily complete a unit, a student must:

- a. Complete all reportable assessment tasks.
- b. Obtain a grade less than a **P** in no more than one reportable assessment task or exam.

2. Level of Achievement against Statewide Learning Standards

Students will be assessed against the Victorian Curriculum standards. This framework identifies eight learning areas and four general capabilities for the Prep to year 10 curriculum. The Learning Areas describe distinct disciplines, while the capabilities represent knowledge and skills that are developed and applied across the curriculum.

The Victorian Curriculum includes standards at ten levels. The level broadly associated with schooling at year 10 is Level 10. Student achievement will be reported against the achievement standards indicating the level of attainment reached by each student and the age expected level of attainment.

Work Habits

Students are assessed in the Work Habits of Effort, Class Behaviour, Meeting Deadlines and Organisation.

HOMEWORK

Home study reinforces the development of skills in organisation, planning and self-management that are crucial in assisting students to become independent learners.

It is expected that students in year 10 will complete a minimum of 8 to 10 hours homework per week.

Students should set aside regular times in the week that will best suit their schedule of activities. This time should be used to ensure that all required work (set homework, incomplete classwork, assignments, and test revision) is completed and submitted for assessment by the due date. Mathematics and German require regular practice, and, for English, it is essential that the reading of set texts and independently selected books is a nightly practice.

A **Student Homework and Study Planner** is provided for each student to facilitate the recording, organisation and management of homework. Parents can assist this process by regularly checking that homework has been recorded.

This **Course Information Booklet** should be kept in a safe place for reference throughout the year. Like the Planner, it assists students in monitoring their progress

ACCOUNTING

Overview

Content

This computer-based unit focuses on the different ways individuals can successfully plan and manage personal finances. Students will also examine the basic accounting procedures involved in the recording of financial transactions of small business.

Topics may include:

- Wise money management;
- Characteristics of a good budget;
- Three steps to budget planning;
- Putting budget into action/Record keeping;
- Preparation of accounting records from Journals to Financial Reports for a small business;
- Preparation of Bank Reconciliation Statement and Petty Cash Book.

Key Skills

On completion of this course students are able to:

- Demonstrate an understanding of personal financial management;
- Demonstrate an understanding of basic accounting procedures for a small business.

Assessment Tasks

- **Case Study:** preparation of a personal budget.
- **Applied Accounting Exercises:** exercises covering basic recording procedures used by small business.
- **Problem Solving Tasks:** exercises involving the preparation of financial reports.
- **Examination:** an examination at the end of the semester.

BUSINESS MANAGEMENT

Overview

Content

By 2030, all jobs across all sectors are going to look very different. Automation, globalisation and more flexible working arrangements are rapidly reshaping our economy and workforce. In this future world of work, young people are predicted to have 17 different jobs over 5 careers in their lifetimes. This subject focuses on the enterprise skills and career management capabilities needed to thrive in the contemporary business world. Topics may include: marketing, public relations, business communications and pitches as well as how to use design thinking to develop a successful business plan.

Key Skills

On completion of this course, students are able to:

- Demonstrate critical thinking, communication, collaboration and enterprise skills
- Understand key concepts, such as innovation, business ideas, Marketing, Market Research, Goal setting, legal and financial requirements and Public Relations.
- Demonstrate design thinking to find and solve business based problems
- Analyze financial capabilities and evaluate financially sustainable enterprises
- Understand and discuss social enterprises and the impacts of Social Corporate Responsibility
- Understand business plans and project management skills
- Interpret, analyze and evaluate documents and different forms of media.

Assessment Tasks:

- **Analytical Exercise:** an analysis and evaluation of visual and other source material.
- **Case study:** an extensive report on a selected business
- **Presentation:** an 'elevator' pitch on your business idea.
- **Examination:** an examination at the end of the semester

CHEMISTRY

Overview

Content

Students will investigate changes which occur across a range of chemical reactions and the production of new materials that we observe around us every day. They will investigate the importance and diversity of organic chemistry in areas such as fuels and polymers. Students will learn to undertake an extended practical investigation into a key area of study conducted throughout the semester.

Key Skills

On completion of this course, students are able to:

- Undertake practical investigations and experiments
- Describe chemical changes through word and formula equations
- Use a range of scientific materials and techniques
- Prepare a written lab report
- Analyse and interpret experimental data
- Prepare a written research report

Assessment Tasks:

- **Portfolio:** a series of practical investigations and experimental reports
- **Scientific research investigation:** students investigate a chemistry concept and link to real world applications
- **Scientific Poster:** based on a student designed extended practical investigation
- **Examination:** an examination at the end of the semester

CONSPIRACIES OF THE 20TH CENTURY

Overview

Content

In the last 70 years there have been a number of events and situations that some people claim were not quite as they seemed: the assassinations of John F. Kennedy and Malcolm X, the moon landing and the events of 9/11 to name a few. These claims became conspiracy theories. People claim that these events and situations were actually arranged by groups of people, governments or clandestine organisations such as the Illuminati. This course provides students with the opportunity to explore some of these theories, looking at the evidence available. Students also develop an understanding of the modern world from 1945 to the present, with an emphasis on some of the key events of this period. Topics may include the assassination of John F. Kennedy, the moon landing, 9/11, Area 51 and the Holocaust.

Key Skills

On completion of this course, students are able to:

- Analyse and understand change and continuity;
- Analyse the significance of major events and ideas which helped to shape the modern world.
- Identify topics for research, questions and investigate effectively;
- Understand key concepts, such as bias, relevance and historical empathy, and how they can be used to manipulate points of view;
- Interpret, analyse and evaluate documents and different forms of media.

Assessment Tasks:

- **Research Report:** an extensive report on a selected topic.
- **Analytical Exercise:** an analysis and evaluation of visual and other source material.
- **Essay:** a formal essay on selected course work.
- **Examination:** an examination at the end of the semester

CRIME AND PUNISHMENT

Overview

Content

Rules govern our family, social, political and economic life to provide some sort of social order. Rules tell us what we can and cannot do and what we can expect in dealing with others. The operation of the legal system is central to our understanding of contemporary Australian society. The purpose of this unit is to introduce students to the role of the law in society, with a particular focus on young people and the law. Students will be able to develop an understanding of key aspects of the legal system and the impact of these on Australian society. Topics may include: rights of young people, role of police in society, the need for laws in our society, the juvenile justice system and related case studies.

Key Skills

On completion of this course, students are able to:

- Understand the necessity of laws in society;
- Analyse the role of the police in society;
- Understand the rights and responsibilities of young people;
- Understand the consequences of law breakers and how societies penalise those who break the law;
- Discuss current issues and the implications for our society and laws that are created or modified.

Assessment Tasks:

- **Structured assignments:** structured reports focusing on an aspect of the course and utilising a wide range of reference material.
- **Case Studies:** analysis of a proposed/actual change in the law.
- **Research Task:** independent research topic of student choice focusing on an aspect of the course.
- **Examination:** an examination at the end of the semester.

DRAMA

Overview

Content

The purpose of Drama is to provide students with a program that fosters talent and passion in the area of theatre and performance. In year 10, students continue to master their craft through practice-based learning and collaborative performance. The course covers different performance styles and the work of significant drama practitioners. Students will have the opportunity to create and participate in a live performance to an audience.

Key Skills

On completion of this course, students are able to:

- Understand the methods and practices of key drama practitioners and be able to apply them in performance;
- Manipulate a wide range of theatrical conventions and apply them to performances;
- Manipulate dramatic elements to enhance their presentations;
- Participate in the development of a performance;
- Understand the elements of stagecraft to enhance performance.

Assessment Tasks:

- **Collection of performances:** devised performances presented in class.
- **Group performance:** presented to an audience.
- **Review of a live performance:** written review of a performance seen as an audience member.
- **Examination:** an examination at the end of the semester.

DISEASE AND IMMUNOLOGY

Overview

Content

Students will complete an in-depth, case study driven course to learn about Infectious Disease control, The Immune system and Pathogens. Infectious Disease control relates to how society deals with Infectious diseases and measures that can put in place such as vaccination. The Immune system involves the action of white blood cells and how they fight infection. Pathogens will focus on disease causing agents, such as Bacteria and Viruses. A range of diseases from Cancers to COVID-19 will be explored in depth. Human Pathology and Disease is a great foundation for any students looking to pursue one of the many rewarding careers in Health.

Key Skills

On completion of this course, students are able to:

- Use appropriate scientific language
- Understand the function of internal systems in organisms, such as the immune system
- Apply their knowledge of Disease and Disease control to real world examples
- Develop critical and creative thinking to think of solutions to novel scientific challenges
- Present and communicate scientifically to scientific and non-scientific audiences
- Gather, analyze and interpret primary data based on a student led inquiry while remaining conscious of ethics in this field of research.

Assessment Tasks:

- **Scientific Poster:** based on a self- designed infectious disease practical investigation.
- **Game creation:** creation of a playable game (digital or physical) to represent an understanding of the immune response.
- **Interview scenarios:** based on a discussion of knowledge of a disease/issue in relation to a specific case study
- **Examination:** an examination at the end of the semester

ENGLISH

Overview

Content

The subject of English strengthens each student's ability to communicate with a focus on reading, writing, speaking, and listening. Students will read and view a variety of texts that challenge their ability to think about and express their own ideas on complex themes and issues. They will also work on spoken communication where they will present their individual opinions, practise active listening, and form constructive responses. Students need to understand and effectively use the English language to meet the demands of school, employment, and further education, as well as for their own personal and social development.

Key Skills

On completion of this course students are able to:

- Read, view, and analyse imaginative, informative, and persuasive texts that present complex themes and issues;
- Research, collect, and organise information to build a deeper understanding of texts and issues;
- Write for a variety of purposes and in different forms including imaginative, argumentative, reflective, personal, and analytical responses;
- Listen actively and develop learning strategies for processing new ideas and information;
- Present opinions in a clear, well-structured, and thoughtful manner in response to texts, themes, and issues.

Assessment Tasks

- **Writing:** writing for different audiences and purposes, and responding creatively to texts
- **Text responses:** analytical responses to studied texts and relevant assessment activities completed
- **Language analysis:** a variety of persuasive texts analysed and activities completed
- **Oral presentation:** a minimum of one oral activity per semester
- **Examinations:**
Semester 1: a 1½ hour examination paper.
Semester 2: a 2 hour examination paper.

ADVANCED ENGLISH

Overview

Content

Students selected for the Advanced English must operate at a high level of proficiency. The course content focuses on enriching and extending students' abilities in writing, reading, speaking and listening. Students will read and view a variety of texts that challenge their ability to think about and express their own ideas on complex themes and issues. They will also work on spoken communication where they will present their individual opinions, practise active listening, and form constructive responses. Students need to understand and effectively use the English language to meet the demands of school, employment, and further education, as well as for their own personal and social development. Selection or inclusion of students will be based on previous achievements in English. Decisions on inclusion will be made in consultation with teachers, students and parents.

ENGLISH AS AN ADDITIONAL LANGUAGE (EAL)

Overview

Content

EAL students are a highly diverse group, of different ages, at different stages of learning English, from differing first-language backgrounds and with varying amounts of education in their first language. The subject EAL accommodates this by providing English language development within a set of standards describing expectations for EAL learners. The secondary stages (year 7-10) of EAL learning are described as S1, S2, S3 and S4, and provide a set of practical, observable ways in which students are likely to demonstrate their achievements in English language learning.

This subject will run on a needs basis.

ENTERTAINING WITH FOOD

Overview

Content

Students will explore a wide range of food preparation techniques, focusing on food presentation and styling. They will learn skills involved in planning for social events. During the semester students will look at the principles of food safety and hygiene. Students will work through the design process both collaboratively and independently to create solutions to design briefs.

Key Skills

On completion of this course students are able to:

- Develop a design brief and investigate and select a sophisticated range of materials, tools and equipment to develop design ideas;
- Apply design thinking and creativity to develop, modify and communicate design ideas;
- Safely test, justify and use appropriate technologies and processes to make designed solutions;
- Evaluate design ideas, processes and solutions against comprehensive criteria for success;
- Independently and collaboratively develop project plans, taking into consideration time, cost, risk and production processes.

Assessment Tasks

- **Research Report:** a research report on a relevant topic.
- **Project:** a project based on the design process.
- **Production:** prepare sweet and savoury dishes using a wide range of skills and techniques.
- **Examination:** an examination at the end of the semester.

FOUNDATION MATHEMATICS

Overview

Content

Students will use mathematics to investigate a broad range of everyday practical mathematics situations. They will build on skills in the areas of space, shape and design, patterns and number, data and measurement. The study of mathematics will develop real life mathematical understanding and problem solving that all students will require in future. This subject is offered to Year 10 students as a final year of Maths. Students will also gain a Unit 1&2 on their record if successful. Students can not do Maths in VCE if they undertake this subject.

Key Skills

On completion of this course students are able to:

- Use scale diagrams and maps to represent everyday items;
- Interpret and use maps, plans, models and diagrams;
- Apply numbers and patterns to estimate results;
- Collect, represent and interpret data in a variety of formats;
- Use and apply the metric system of measurement in a variety of contexts;
- Select appropriate technologies as an integral part of their mathematical activities.

Assessment Tasks

- **Tests:** complete tests within each topic.
- **Assignments:** complete a range of mathematical investigations.
- **Analytical tasks:** complete a range of analysis tasks.
- **Examination:** undertake an examination at the end of each semester.

GERMAN

Overview

Content

Students will continue to develop knowledge, confidence, communication skills and enjoyment in studying another language. The German lessons will promote awareness of the culture and ways of life in German-speaking countries. Students exchange information and opinions on topics related to the world of adolescence including youth life and culture, leisure, relationships, holiday destinations, nature and the environment, study, part-time jobs and careers. By initiating and participating in class discussion and writing tasks, students expand their knowledge of spoken and written conventions. Students consider the audience, purpose and appropriate language for a range of listening, speaking, reading and writing tasks, thereby gaining language awareness and intercultural understanding.

Key Skills

On completion of this course students are able to:

- Identify relevant information and ideas from spoken texts;
- Use a range of strategies to assist in listening comprehension;
- Participate in conversations related to specific topics and recycle language to express information;
- Speak with appropriate pronunciation and expression;
- Read texts and identify and extract main ideas and detailed information for use in new contexts;
- Create simple original text for specific audience, purpose and topic;
- Read short selected passages with fluency.

Assessment Tasks

- **Written work:** a variety of exercises including two pieces of creative writing.
- **Text response:** oral and written responses to text material.
- **Listening:** a variety of texts studied and relevant questions answered.
- **Conversation:** participation in role play / oral presentations
- **Examination:** an examination at the end of each semester.

HEALTH IN OUR HANDS

Overview

Content

Students will study the dimensions of health and learn how to use these to assess their own health. They will investigate the health of different demographics in Australia from youth to elderly and Indigenous Australians. Illness and disease will be a focus as students explore the health care system of Australia and develop an understanding of the National Health Priority Areas. Using existing health promotion strategies, students will critique and consider the importance of these in shaping the health of themselves and the Australian population. Students will then plan a strategy to promote physical activity and health in our community.

Key Skills

On completion of this course students are able to:

- Evaluate health information from a range of sources.
- Use a range of data to make conclusions on the Health of Australians
- Identify and critique the accessibility and effectiveness of support services.
- Plan and implement strategies to enhance the health of their communities
- Plan and design a new and creative intervention that promotes health in the community.

Assessment Tasks

- **Structured Response:** Health Status of Australia test
- **Visual Presentation:** National Health Priorities Poster
- **Digital Presentation:** Design a health promotion app
- **Examination:** an examination at the end of semester.

HEALTH AND PHYSICAL EDUCATION

Overview

Content

Health and Physical Education provides students with knowledge, skills and behaviours to enable them to develop and maintain their health and wellbeing. Students demonstrate proficiency of movement skills during complex activities, with the emphasis being on strategic thinking and tactical knowledge to improve individual and team performance. They maintain regular participation in moderate to vigorous physical activity and undertake a personal fitness training program to improve their fitness level. Students explore the factors that impact on the health of Australia's youth. Understanding these factors is vital for ensuring that students live the fullest lives possible.

Key Skills

On completion of this course students are able to:

- Evaluate individual and group tactics, skills and movement patterns;
- Employ games, physical activities and sports to improve performance;
- Explain the components of fitness and identify those used in different sports;
- Explain the principles of training and training methods;
- Identify the energy systems and the factors that influence their use;
- Develop personal physical activity goals and an individual fitness program;
- Analyse data to draw informed conclusions about a range of health issues facing Australia's youth;
- Identify and describe strategies that address current trends in nutritional status and physical activity levels of youth;
- Explain mental health issues relevant to young people and draw informed conclusions about personal, community and government strategies and programs to optimise health;
- Explain the impact of alcohol and drugs on sexual and personal safety.

Assessment Tasks

- **Game sense:** ability to combine motor skills, strategic thinking and tactical knowledge.
- **Written Report:** analyzing and evaluating a fitness training program
- **Case Study:** structured questions in response to case studies presented.
- **Examination:** an examination at the end of the semester.

MATHEMATICS

Overview

Content

Students will use mathematics to investigate a broad range of mathematical situations. They will build on skills in the areas of number, measurement, algebra, probability and statistics. The study of mathematics will develop real life mathematical understanding and problem solving that all students will require in future.

Key Skills

On completion of this course students are able to:

- Use a range of mathematical techniques to solve mathematical problems;
- Communicate their understanding using correct mathematical language and notation;
- Problem solve by employing a variety of strategies;
- Define key mathematical concepts;
- Select appropriate technologies as an integral part of their mathematical activities.

Assessment Tasks

- **Tests:** complete tests within each topic.
- **Projects:** complete a range of mathematical investigations.
- **Analytical tasks:** complete a range of in depth analysis tasks.
- **Examination:** undertake an examination at the end of each semester.

ADVANCED MATHEMATICS

Overview

Content

Students selected for Advanced Mathematics should be operating at a high level of mathematic proficiency. The course content focuses on enriching and extending students' mathematical abilities in each of number, measurement, algebra, probability and statistics. Students will use mathematics to investigate a broad range of mathematical situations. The study of mathematics will develop real life mathematical understanding and problem solving that all students will require in future. Selection or inclusion of students will be based on previous achievements in Mathematics. Decisions on inclusion will be made in consultation with teachers, students and parents.

MEDIA

Overview

Content

Students develop their media literacy and production skills by exploring a range of media forms and equipment. Students study the ways in which media texts are constructed and their effect on the viewer. In practical workshops, students learn about the production process and how to operate media equipment and applications. Students use this knowledge to plan and produce their own media projects for an intended purpose and audience.

Key skills

On completion of this course, students are able to:

- Follow media practices and employ creative media techniques;
- Use stimuli to investigate, plan and produce a range of creative media products;
- Confidently use a range of media equipment and applications;
- Use appropriate media terminology;
- Integrate practical work with theoretical concepts;
- Develop confidence in using digital technologies like iMovie, Adobe Photoshop, Final Cut Pro and GarageBand.

Assessment tasks

- **Practical tasks:** a series of media productions
- **Film production:** production of a short film
- **Analysis responses:** written responses to media texts
- **Exam:** an examination at the end of semester

MULLAUNA MASTERCLASS

Overview

Content

As the name suggests, students will undertake lessons in key knowledge, skills and techniques relating to equipment, ingredients and cooking processes. They will then use the knowledge they have gained to complete challenges which demonstrate their level of understanding. The challenges can be both practical and theoretical! Imbedded in many of these challenges will be the use of the design process.

Key Skills

On completion of this course students are able to:

- Develop a design brief and investigate and select a sophisticated range of materials, tools and equipment to develop design ideas;
- Apply design thinking and creativity to develop, modify and communicate design ideas;
- Safely test, justify and use appropriate technologies and processes to make designed solutions;
- Evaluate design ideas, processes and solutions against comprehensive criteria for success;
- Independently and collaboratively develop project plans, taking into consideration time, cost, risk and production processes.

Assessment Tasks

- **Research Report:** a research report on a relevant topic.
- **Project:** a project based on the design process.
- **Production:** prepare sweet and savoury dishes using a wide range of skills and techniques.
- **Examination:** an examination at the end of the semester.

PEOPLE AND PLACES

Overview

Content

This unit focuses on investigating global, national and local differences in human wellbeing. It examines the different concepts and measures of human wellbeing, and the causes of global differences between countries. Students explore the differences in wellbeing within and between countries, and evaluate the differences from a variety of perspectives. The different aspects of human wellbeing are investigated using studies drawn from Australia, India and across the world. Topics may include: globalisation, poverty and inequality, and human rights.

Key Skills

On completion of this course students are able to:

- Collect, select, record and organise relevant data and geographical information from a range of appropriate primary and secondary sources;
- Evaluate sources for reliability, bias and usefulness and represent data in a range of appropriate forms;
- Apply geographical concepts to synthesise information from various sources and draw conclusions based on the analysis of data and information, taking into account alternative points of view;
- Present findings, arguments and explanations in a range of appropriate communication forms.

Assessment Tasks:

- **Research Report:** an extensive report on a selected topic
- **Analytical Exercise:** an analysis and evaluation of visual and other source material.
- **Essay:** a formal essay on selected course work.
- **Examination:** an examination at the end of the semester.

PHOTOGRAPHY

Overview

Content

Students will experience digital photography and experiment with photo editing. They will be introduced to the camera and a range of photographic techniques to develop skills and confidence when using photography to create artworks. They will apply elements and principles to create individual art pieces.

Key Skills

On completion of this course students are able to:

- Use a range of ideas to create artworks and develop a personal style;
- Explore themes, issues and ideas when making and presenting artworks;
- Use a range of materials and techniques;
- Analyse and interpret the work of a range of photographic artists and their artworks;
- Use appropriate art terminology.

Assessment Tasks:

- **Folio of Practical Work:** completion of a range of tasks including a major piece
- **Workbook:** documentation of the design process that students have engaged in
- **Written Presentation:** a written report, based on research into a set topic and will be supported by visual material
- **Examination:** an examination at the end of the semester

PHYSICS

Overview

Content

Students will understand forces and motion, matter and energy and how these impact our understanding of the world around us. They learn to collect data and use evidence to suggest solutions to problems and use scientific theories in explaining how things work and move in the world around them. Students will learn to undertake an extended practical investigation into a key area of study conducted throughout the semester.

Key Skills

On completion of this course students are able to:

- Describe energy transfers, transformations and changes in a system
- Use equations and graphs of motion to solve problems of simple moving objects
- Use a range of scientific materials and techniques
- Prepare a written lab report
- Analyse and interpret experimental data
- Prepare a written research report

Assessment Tasks:

- **Portfolio:** a series of practical investigations and experimental reports
- **Scientific research investigation:** students investigate a physics concept and link to real world applications
- **Scientific Poster:** based on a student designed extended practical investigation
- **Examination:** an examination at the end of the semester.

PROGRAMMING APPLICATIONS

Overview

Content

Students will learn the fundamentals of programming such as storing variables to create an interactive game. They will also learn about computer applications associated with marketing strategies to create and advertise a product. Students will create a portfolio to demonstrate their proficiency in coding and creative thinking. Via the portfolio, they will explore how IT is used to bridge gaps in medical fields and will create and showcase relevant engineered digital solutions. Students will utilise the Makerspace to build and prototype their designs.

Key Skills

On completion of this course students are able to:

- Create a complex game using programs such as Flash Action-script 3.0;
- Utilise the basic functions of a variety of software applications
- Create detailed data bases with Microsoft Access
- Understand the fundamentals of programming through a series of programming learning tasks;
- Create schematics to develop designs with 3D printers and laser cutting

Assessment Tasks:

- **Game development:** creation of a finished platform game using code-based game software
- **Creative design:** development of product marketing for finished game
- **Programming folio:** a design process to progressively develop a solution
- **Examination:** an examination at the end of the semester.

SHAPE UP, SKILL UP

Overview

Content

Shape Up, Skill Up challenges students to move beyond their comfort zone and ultimately grow as individuals. The students will demonstrate leadership and collaboration skills when working in teams, enhance their understandings of the musculoskeletal system through a series of practical laboratories, participate in peer teaching and coaching situations with a focus on skill development and improvement, and consider ways of improving their diet to meet their energy needs.

Key Skills

On completion of this course students are able to:

- Perform, observe and analyse a variety of movements used in physical activity and identify the muscles and bones responsible for movement;
- Identify and implement ways of improving performance during games and sports;
- Demonstrate effective coaching in a variety of practical sessions;
- Examine the relationship between nutrition and sport.

Assessment tasks

- **Structured response:** Musculoskeletal system test.
- **Digital presentation:** Skill analysis presentation.
- **Visual presentation:** Nutrition poster.
- **Examination:** an examination at the end of the semester.

STUDIO ART

Overview

Content

Students will experience a range of materials including painting, drawing, printmaking and ceramics. They will be introduced to new techniques which will enable them to develop increased skills and confidence to create artworks. They will apply elements and principles to create individual art pieces that have personal meaning. They will learn about different artists and be able to analyse artworks.

Key Skills

On completion of this course students are able to:

- Use a range of ideas to create artworks and develop a personal style;
- Explore themes, issues and ideas when making and presenting artworks;
- Use a range of materials and techniques;
- Analyse and interpret the work of a range of artists and their artworks;
- Use appropriate art terminology.

Assessment Tasks

- **Art style investigation:** completion of a range of artworks including support material.
- **Art theme investigation:** completion of a range of artworks including support material.
- **Written Presentation:** written report/s based on research into set topics that will be supported by visual material.
- **Examination:** an examination at the end of the semester.

WARS, RIGHTS AND FREEDOMS

Overview

Content

This course seeks to build on learning from Year 9 by examining the world in the 20th Century after World War I. This century of wars, technological development and struggles for freedom is extremely interesting and worthy of close study. Topics covered include:

Between the Wars - examining the rapid changes the world endured in the wake of World War 1.

World War II - focuses on the causes, major events and consequences of this devastating war.

Rights and Freedoms - looks at the various rights movements that took place in the second half of the 20th Century with a particular focus on indigenous Australians' fight for justice. It also examines popular culture during this time.

Key Skills

On completion of this course students are able to:

- Conduct thorough and thoughtful research
- Collaborate with others to develop understanding
- Critically consider different perspectives
- Empathise with people from a range of different backgrounds and circumstances
- Understand notions of cause and effect
- Develop inquiry questions to guide investigations
- Use a range of different technologies to present ideas

Assessment Tasks

- **Document analysis:** an analysis of primary sources created after WWI.
- **Research report:** a report on Australia's involvement in WWII.
- **Digital History video:** a presentation about an aboriginal Australian freedom fighter.
- **Examination:** an examination at the end of the semester.

WHO YOU ARE

Overview

Content

Students will study the importance of cells and other essential substances that make us. Students will also learn how traits are inherited to make you who you are. Ideas of how life began and how living things have evolved will be discussed. Students will explore the human psyche and investigate the various internal and external factors that influence how we think, feel and behave in the world. Using psychological research methods, students will investigate the internal workings of the mind and consider the importance of nature and nurture in shaping who we are as unique individuals.

Key Skills

On completion of this course students are able to:

- Use appropriate scientific language;
- Describe the basic aspects of the biology of life and evolution;
- Make inferences regarding the influence of biological, psychological and social factors on a person's behavior;
- Use a range of scientific materials and techniques;
- Prepare a written lab report and scientific poster;
- Analyse, interpret and draw conclusions based on experimental data.

Assessment Tasks

- **Biology Unit:** a range of practical investigations, experimental reports, tests and research projects.
- **Psychology Unit:** a range of empirical research and analytical activities, tests and research projects.
- **Scientific poster:** based on a practical investigation.
- **Examination:** an examination at the end of the semester.

VISUAL COMMUNICATION AND DESIGN

Overview

Content

This subject explores the way design communicates ideas and messages in a visual way. Students will develop a range of creative design projects that satisfy particular purposes and appeal to different target audiences. They will apply each stage of the design process to generate and develop ideas in both two and three-dimensional design tasks. Both technical and creative methods will be applied using a range of manual and digital techniques. Students will analyse the work of other designers to gain a broader understanding of design development, trends and influences.

Key Skills

On completion of this course students are able to:

- Produce creative visual communications that satisfy a stated purpose;
- Apply drawing skills to communicate ideas;
- Apply the design process to generate and develop a range of creative ideas;
- Complete technical drawings to communicate 3D designs;
- Apply the design elements and principles to produce effective 2D designs;
- Use a range of media and techniques;
- Analyse the work of other designers.

Assessment Tasks

- **2D Design Task:** completion of the design process to produce a final presentation that meets a stated purpose.
- **3D Design Task:** completion of the design process, including technical drawings, to produce a final presentation.
- **Written Presentation:** an individual written report.
- **Examination:** an examination at the end of the semester.