



Echuca
College

2025

Year 9 Course Selection Handbook

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YEAR 9 OVERVIEW

The curriculum structure of Year 9 at Echuca College is broad and engaging. Students are given some flexibility in elective choice whilst the core, compulsory subjects aim to provide students with the necessary background as they approach their non-compulsory schooling years. An increasing variety of elective programs makes it possible for students to explore areas which have sparked their interest and curiosity.

The Year 9 program is designed to equip young people with the knowledge, skills and behaviours that enable them to engage fully with the social and technological environment of the future.

The Year 9 program has a number of key features including developing critical and creative thinking skills as well as enhancing the ability of students to work collaboratively in teams.

The highlight for students within the Year 9 curriculum is the Pathways component of their Humanities class. Students will learn about the world of work and investigate the varied opportunities available to them in regards to future career pathways. They will be assisted to write a job application and prepare a resume. Through their involvement in Beacon led programs such as the 'Mock Interview' day and the 'Interview Tech' session, students will further develop their skills in communication and personal presentation. Students will be assisted to discover their own strengths and consider how they could meet their own future goals. They will participate in activities that help them to consider who and what influences their own lives and how they can influence the lives of others by contributing to the community. Throughout the year, students will attend programs provided by the Beacon Foundation that will assist with career planning such as the Beacon pledge day, Careers Expo and Youth Expo.

Year 9 Sample Program:

Semester 1	Maths 3 Periods	English 3 Periods	Humanities/Pathways 3 Periods	Science 3 Periods	Physical Education/Health 3 Periods	Elective 1 2 Periods	Elective 3 3 Periods
Semester 2	Maths 3 Periods	English 3 Periods	Humanities/Pathways 3 Periods	Science 3 Periods	Physical Education/Health 3 Periods	Elective 2 2 Periods	Elective 4 3 Periods

Year 9 3D ART

Assessment

- Folio of work
- Final presentations

Resources/camps/excursions

- A3 Sketchbook
- Gallery excursion

Pathways

- Year 10 Visual Art
- Year 10 Visual Communication
- VET Studio Arts
- VCE Creative Practice
- VCE Visual Communication

Complimentary Subjects

- Visual Arts
- Digital Photography
- Visual Communication

CAT 1: Art Ceramics

In this area of study, students will

- Learn how to manipulate clay
- Learn the hand building techniques of pinch, coil and slab
- Learn how to use glaze and other decorative techniques
- Create a folio that documents the Art Process

CAT 2: Cardboard and Paper Mache Art

In this area of study, students will

- Learn how to manipulate cardboard and newspaper
- Research how artists have used cardboard and Paper Mache to create artworks.
- Create a folio that documents the Art Process

Year 9 Advanced Mathematics

The Year 9 Mathematics syllabus aims to give students a wide range of skills and is divided into two different streams. The Year 9 Advanced Mathematics stream is for students who have coped reasonably well with Mathematics at Year 8. Students who take this pathway are prepared for all levels of Mathematics in further VCE Mathematical studies.

Students will be able to:

- consolidate and extend work done in previous years
- revise and extend algebraic skills
- develop an appreciation for problem solving and projects
- develop the ability to work in groups in order to stimulate ideas
- gain confidence and satisfaction in learning new skills

Topic covered include:

- Pythagoras Theorem
- Number and financial maths
- Indices
- Trigonometry
- Measurement
- Linear relationships
- Statistics and probability
- Non-linear relationships
- Geometric reasoning

It is strongly recommended that students complete the highest level of mathematics at which they are capable to maximise their opportunities in the future. Please don't hesitate to contact your Maths teacher if you need further guidance with possible pathways.

Assessment

- Common assessment tasks
- Essential assessment digital program

Resources/camps/excursions

- Year 9 maths textbook
- Workbook
- Scientific Calculator

Pathways

- Unit 1 & 2 General Maths
- Unit 1 & 2 Maths Methods
- Unit 1 & 2 Spec. Maths

Complimentary Subjects

- Year 9 Science

Year 9 Art

CAT 1: Drawing

Students will experiment with a range of drawing techniques and materials, exploring how to create tone, texture, pattern and colour.

In this area of study, students will;

- Experiment drawing with a range of media and materials
- Experiment with a range of drawing techniques
- Create and present a portfolio showing the development of their ideas
- Research and analyse the work of an artist
- Create a display of their artwork

CAT 2: Printmaking

Students will examine how artists express their cultural experiences. Students also investigate a variety of printmaking techniques.

In this area of study, students will:

- Experiment with a range of printmaking techniques and materials
- Create and present a portfolio showing the development of their ideas
- Research the work of an artist
- Create a display of their artwork

CAT 3: Painting/Mixed Media

Students will explore techniques for incorporating a range of media into painting variety of mixed media and painting techniques.

In this area of study, students will:

- Experiment with a range of mixed media and painting techniques
- Create and present a portfolio showing the development of their ideas
- Research the work of an artist
- Create a display of their work

CAT 4: Art History

Students will use observation and descriptive language to research artworks from a range of cultures and periods of time.

In this area of study, students will:

- Describe how art elements and principles are applied in Artworks
- Investigate how an artwork's interpretation is impacted by cultural and historical events
- Discuss their interpretation of artworks

Assessment:

- Portfolio of student artwork
- Written analysis of artworks

Resources/camps/excursions

- A3 Sketchbook/Portfolio

Pathways

- Year 10 Art
- Year 10 Visual Communication
- Year 10 Digital Arts
- VCE Studio Arts
- VCE Visual Communication

Complimentary Subjects

- Year 9 Visual Communication
- Year 9 Digital Photography

Year 9 Digital Photography

Topic 1: Photography and Photoshop

Students will explore photography and examine how photographers use photography to express ideas.

In this area of study, students will;

- Experiment taking photos using a digital SLR camera.
- Experiment using Adobe Photoshop to edit their photos.
- Research and analyse the work of a photographer.
- Create a display of their artwork

Topic 2: Animation

Students will examine how artists create animations. Students also investigate different animation types including stop motion and Claymation.

In this area of study, students will:

- Experiment with Adobe Photoshop to create a short animation.
- Create and present a short animation to an audience.
- Research different types of animations.

Topic 3: Illustration and Media

Students will explore examine movie posters and advertising and learn how to use Adobe Illustrator to create posters with images and text.

In this area of study, students will:

- Learn how to use Adobe Illustrator
- Analyse movie poster and magazine front covers
- Create a display of their work

Topic 4: Personal Project

Students will have a chance to create an individual project using some of the programs and skills taught over the semester.

In this area of study, students will:

- Research individual ideas
- Experiment with a range of techniques relevant to their project
- Create a display of their artwork

Assessment:

- Portfolio of student artwork
- Written analysis of artworks

Resources/camps/excursions

Pathways

- Year 10 Art
- Year 10 Visual Communication
- Year 10 Digital Art
- VCE Studio Arts
- VCE Visual Communication

Complimentary Subjects

- Year 9 Visual Communication
- Year 9 Art

Year 9 Digital Technologies

Students explain the control and management of networked digital systems and the data security implications of the interaction between hardware, software and users.

Students explore simple data compression, and why content data are separated from presentation. They take account of privacy and security requirements when selecting and validating data and use digital systems to analyse, visualise and model salient aspects of data. Students share and collaborate online, establishing protocols for the legal and safe use, transmission and maintenance of data and projects.

Students define and decompose complex problems in terms of functional and non-functional requirements. They design and evaluate user experiences and algorithms, and develop and test modular programs, including an object-oriented program. Students evaluate their solutions and information systems in terms of risk, sustainability and potential for innovation.

Students will be introduced to Digital Technologies through a course that has a wide lens.

Topics covered:

- Problem solving
- Programming
- Physical computing
- User centred design
- Data
- Building websites
- Building apps
- Animations
- Designing Games
- Physical computing systems.

Assessment

- Short answer questions
- True and false questions

Resources/camps/excursions

- Computer access
- Access to Code.org

Pathways

- Year 10 Information Technology
- VCE Unit 1 & 2 Applied Computing
- Unit 3 & 4 Software Development

Complimentary Subjects

- Design Technology
- Maths
- Science
- English
- LOTE (Language Other than English)

Year 9 Drama

In Year 9 Drama, students will create, develop a character that will be presented in a performance. Students will perform devised and scripted drama in different forms, styles using different performance spaces. They will work collaboratively with their peers to plan, direct, produce, rehearse and refine performances.

Topics include:

- Improvisation
- Creative Movement
- Theatre Sports
- Script Reading
- Script Writing
- Performance to an Audience

Assessment

- The role of the character
- Drama in action
- Voice and body movement
- Reflection

Resources/camps/excursions

- TBA

Pathways

- Year 10 Drama
- VCE Drama

Complimentary Subjects

- Art
- Visual Art
- Photography
- Media Studies
- Music

Year 9 English

Assessment

- Textual annotation
- Creative response to texts
- Analytical response to texts
- Narrative writing
- Oral presentation

Resources/camps/excursions

You are expected to purchase the novels being studied, as listed in the booklist

Pathways

- Literature
- English Language
- VCE VM Literacy

Complimentary Subjects

The skills and ideas learned in English are applicable to all subjects studied.

In Year 9, students interact with peers, teachers, individuals, groups and community members in a range of face-to-face and online/virtual environments.

Students will continue to consolidate and extend what they have learned from previous years. They also extend their understanding of how language works and learn to transfer this knowledge to different contexts.

Students engage with a variety of texts for enjoyment. They interpret, create, evaluate, discuss and perform a wide range of literary texts with aesthetic, persuasive and informative styles. These text types include newspaper articles, films, novels, non-fiction and poetry. In Year 9, students will develop a more critical understanding of contemporary media.

Literary texts help students to become independent readers by exposing them to a variety of text types and support them to explore themes of different life experiences, cultures, relationships, and global issues in the real world. Students develop skills of writing informative texts representing information about a wide range of specific topics including the use of appropriate vocabulary, figurative language, graphs and visual information.

Reading and Viewing:

Students analyse different texts and interpret how authors use images, vocabulary choices and language features in different ways to influence the audience. Reading involves students being able to reflect on their personal understanding of the world and develop their human experience by interpreting various representations of life in texts.

Writing:

Students create imaginative, informative and persuasive texts that present a point of view and clear arguments. They edit for effect and they select vocabulary and grammar that contributes to a more convincing argument. Students use correct spelling and punctuation and publish their work using a range of mediums including digital software.

Speaking and Listening:

Students will understand that different audio texts position the audience differently, and by comparing their observations with their classmates' observations, students will learn that the same text can be interpreted and understood differently. Students will create engaging and original presentations with depth of meaning, using many language techniques, and the referencing of other texts in the genre.

Year 9 Food Studies

Assessment

- CAT 1 – Sensory Analysis: Homemade versus commercial product
- CAT 2 – Asia on a plate – Noodle Box Design Brief
- CAT 3 – Preservation Research Task
- CAT 4 – Production and evaluations

Resources/camps/excursions

- Class materials are supplied but students must work within some constraints
- A laptop is recommended
- A4 clear – Display envelop
- Container
- Enclosed leather shoes (OHS requirement)

Pathways

- Year 10 Food Studies
- VET Cert II Kitchen Operations
- VCE Food Studies Unit 1-4

Complimentary Subjects

- Health
- Physical Education

During the semester, students will continue to extend food preparation and cooking techniques learnt in previous years. Students will also follow safety procedures and learn the correct use and maintenance of cooking equipment. They will be undertaking OnGuard safety modules on a range of tools and equipment used in the kitchen.

The student will continue to develop their skills in the production of a wide range of cuisines.

Students will produce cuisines of cultural significance in their studies of 'World on a plate'.

Students will complete a unit of work on food preservation including; dehydration, salting, jam, sauce making and freezing

Theory topics covered will include;

- Influences on Australian Cuisine
- Various counties cuisines from around the world
- History of food
- Ingredients, tools and equipment
- Sensory analysis

Practical classes include;

- Cuisines around the world
- Sensory analysis and evaluations
- Teamwork
- Skills with tools and equipment
- Safety and hygiene procedures

Year 9 Humanities

In Year 9 humanities students will study history, economics, geography and civics and citizenship.

The following topics will be covered:

- The Industrial Revolution
- Biomes and Food Security
- Economics and Personal Finances
- Australia's Political System
- The Making of Australia
- World War One

Students will study the history of the making of the modern world from 1750 to 1918. They will form an understanding of the movements of people during this time, technological developments contributing to change, imperialism during this period and the significance of World War I.

Geographical knowledge will be developed through the study of personal and global patterns of food production and consumption, the impact environmental issues have on food security and an investigation of environmental stability with an emphasis on Australia's connectedness within its region and the world.

In Economics students will develop an understanding of how our economy operates and develop personal financial literacy skills.

Civics and Citizenship will help students to develop their knowledge of some of the broader issues of global citizenship. Part of this curriculum will be the study of the Australian political system and the High Court of Australia.

Assessment

- Research reports
- Essays
- Projects
- Analysis

Resources/camps/excursions

- Students must have a device with them in class

Pathways

- History
- Geography
- Politics
- Philosophy
- The law
- Economics and Business

Complimentary Subjects

- Y10 History
- Y10 Geography
- Y10 Politics and Culture
- Y10 The Law and You
- Y10 Economics

Year 9 Indonesian

This subject runs for the entire year and is designed to build on language skills founded in Year 8. Indonesian is recommended for students who enjoy language learning and would like to broaden their opportunities for employment, further study and travel.

During this course, students will:

- Use Indonesian to communicate about the self and personality traits through spoken and written communication
- Study work opportunities and occupations in Indonesia, as well as workforce partnerships with Australia
- Learn about different dishes and cook delicious Indonesian cuisine
- Compare opportunities for study, travel and employment between Indonesia and Australia
- Explore travel around the Indonesian islands and the cultural differences between each
- Learn about the grammatical structures of Indonesian prefixes and suffixes, as well as the object focus construction.
- Build on vocabulary learnt in Year 8 and continue to expand language use
- Recognise informal and formal vocabulary and use it in the correct context
- Consider their own reactions in intercultural encounters and reflect on how these may relate to their own assumptions and identity, as well as considering how they may also be perceived by others

Assessment

- Spoken commentary about how to make an Indonesian dish
- Identifying spoken Indonesian and responding in writing
- Written diary entry
- Comprehension task identifying, and applying, grammatical structures

Resources/camps/excursions

- Melbourne excursion (Indonesian shops and restaurants)
- Visit to the Indonesian Consular General

Pathways

- Year 10 Indonesian
- VCE Unit 1 – 4 Indonesian
- English Language 1-4
- VCE Australian History

Complimentary Subjects

- Humanities
- Food Technology

Year 9 Media Studies

Students are introduced to industry-based conventions, processes and technologies used to create print and video-based mediums. They will utilise digital technologies to capture, edit and create images in Adobe Photoshop and Adobe Premier Pro. Students will analyse and create photographic and video media for a range of audiences.

CAT1: Photoshop Editing

Students will be required to create a finished edited image in Photoshop. This image will need to be developed from a minimum of three original photographs. You will need to display your understanding of selection tools, colour adjustments, blending modes, layer masks and layer style controls.

CAT2: Rules Of Composition

Students are required to complete a PowerPoint presentation based on Rules Of Composition as covered in class. You will need to provide a written definition and visual examples both researched and photographed for each of the following rules.

- Rule Of Thirds
- Golden Section
- Horizon Lines
- Direction of Gaze
- Direction Of Movement
- Eye Lines

CAT3: Script

Students will be required to create a script from a short story that you have worked on in class. The story will have developed a Plot and from that plot and story combined you can create your script.

The script will need to be formatted according to industry standards using 12 point courier as the font. The script will need a title and an author. You will need to include the appropriate formatting for slug lines, character, action, dialogue, voice over, off screen, dialogue directions, beat and flashbacks if and when used in your script..

CAT:4 Story Boards

Students will be required to create a series of story boards based off the script you have created in class. You will need to include rules of composition (rule of thirds, eye lines, direction of gaze, direction of movement etc.). You will need to nominate the shot type, shot angle, shot number. Any required camera operator information or lighting information.

You will need to submit a minimum of five finished storyboard pages (twenty individual cells) more is fine.

Assessment

- Photoshop file and a jpeg file. The two files will need to be placed in a folder and submitted to this task on Compass.
- Powerpoint presentation based on Rules Of Composition as covered in class.
- Submission of script to this task in a word document via Compass.
- Submission of a minimum of five finished storyboard pages (twenty individual cells) more is fine.

Resources/camps/excursions

- USB Storage

Pathways

- Media Studies years 10, 11, 12.
- Design (2D, 3D, Gaming, Web, Graphics)
- Photography
- Print media
- Video production.

Complimentary Subjects

-

Be Respectful

Be Inclusive

Be Resilient

Year 9 Metal Work

This unit covers the introduction of basic metal fabrication techniques. Students will extend the knowledge and techniques learnt in Year 8.

During a semester, students will participate in the design, production and evaluation of a metal product.

In this unit, students will;

- Produce their own designs and working drawings
- Construct a metal project to meet a design brief
- Investigate the safe use of a variety of hand tools and metalworking processes
- Learn to follow safety procedures and the correct use and maintenance of hand tools
- Complete Ongoing Safety Certificates for relevant machines and workplace safety.

Techniques covered will include;

- basic metal fabrication
- marking, cutting and joining techniques

Students will work with a variety of materials including types of mild steel; RHS, SHS, Sheet, Bar Stock, Flat Bar, Angle iron.

Assessment

- CAT – Investigating & Defining
- CAT - Design & Development
- CAT – Planning & Production
- CAT – Evaluation

Resources/camps/excursions

- Class materials are supplied but students must work within some constraints
- A4 Display folder
- A laptop is recommended

Pathways

- Year 10 Metal, Design and Production
- Year 10 Wood, design and Production
- Design Technology VCE

Complimentary Subjects

- Year 9 Woodwork

Year 9 Music

Students interpret, rehearse and perform solo and ensemble repertoire in a range of forms and styles. They demonstrate a developing personal voice and technical control, expression and stylistic understanding. They use general listening and specific aural skills to enhance their performances and use knowledge of the elements of music, style and notation to compose, document and share their music.

Students aurally and visually analyse works and performances of different styles. They evaluate the use of elements of music and defining characteristics from different musical styles. They use their understanding of music making in different cultures, times and places to inform and shape their interpretations, performances and compositions.

Theory topics to be covered:

- Create, practice and rehearse music.
- Develop technical and expressive skills on the instrument/s of the student's choice.
- Develop a firm understanding and application of the music intervals.
- Develop an understanding and application of chord structures.
- Learn how this structure is applied in both contemporary and traditional music forms.

Assessment

- Written short answer questions
- Short compositions with chord charts and relevant notation
- Practical small group ensemble

Resources/camps/excursions

N/A

Pathways

- Cert 3 VET Music Industry

Complimentary Subjects

- Drama
- Dance
- Media

Year 9 Outdoor Education

This class will give students a range of opportunities to learn in, about and for the outdoors as well as outdoor recreation activities and the skills required to problem solve and communicate in teams.

Students will cover the ecosystems and their flora and fauna that make Victoria unique. Students will explore climatic factors that influence these environments and the geologic factors that underpin the network of ecosystems. Students will also have the opportunity to research and explore specific National Parks across Victoria and their significance, management and importance for society.

Students will develop the theoretical concepts of bike safety and concepts to consider for trail riding, topographic mapping concepts and understandings of compasses and magnetic bearings, sustainability, and identifying and understanding weather patterns.

Students will be exposed to a range of practical experiences to develop their knowledge and skills for outdoor and recreation.

Activities such as:

- Problem solving and communication skills through a range of team challenges and cooperative games
- Trangia stove and fire cooking and menu planning
- Mountain bike riding skills and trail riding
- Navigation and orienteering
- Canoeing
- Archery
- Golf
- Bush hut building
- Fishing

Assessment

- Investigation tasks
- Informative posters
- PowerPoint research task

Resources/camps/excursions

- Workbook
- Sports Uniform
- Local area excursions for bush skills, navigation and mountain biking and canoeing.

Pathways

- Year 10 Outdoor Education
- Unit 1 & 2 Outdoor & Environmental Studies
- Unit 1 & 2 Physical Education
- Bachelor in Outdoor Education
- Bachelor in Physical Education
- Bachelor in Human Movement & Sport Sciences
- Bachelor in Environmental Science
- Bachelor in Environmental Engineering
- Certificate II, III, IV in Outdoor Recreation
- Park Ranger
- Land conservation

Complimentary Subjects

- Physical Education
- Science

Year 9 Pathways

Course Content

When the students reach Year 9 they embark on a new, more individual and independent educational experience. Students will learn about the world of work and investigate the varied opportunities available to them regarding future career pathways. They will be assisted to write a job application and prepare a resume as well as plan for and prepare themselves for job interviews.

Through their involvement in Beacon led programs such as the 'Mock Interview' day and the 'Interview Tech' session students will further develop their skills in communication and personal presentation. Students will be assisted to discover their own strengths and consider how they could meet their own future goals. They will participate in activities that help them to consider who and what influences their own lives and how they can influence the lives of others by contributing to the community.

Throughout the year students will attend programs provided by the Beacon Foundation that will assist with career planning such as the Beacon pledge day, Careers Expo and Youth Expo.

Areas studied in this class:

- History of work
- Future of work
- Employability skills
- Investigating careers and pathways
- Applying for jobs
- Occupations Health and Safety
- Earning an income
- Communities

Assessment

- Cover letter
- Resume
- Selection Criteria
- OH&S Modules completed

Resources/camps/excursions

- Students must have a device with them in class

Pathways

- Entering the workforce
- Economics and Business
- Community Engagement

Complimentary Subjects

- Y10 History
- Y10 Geography
- Y10 Politics and Culture
- Y10 The Law and You
- Y10 Economics

Year 9 Physical Education & Health

Physical Education

Physical Education runs 2 periods per week.

This class will give students a range of opportunities to participate in a diverse mix of sports across the school year. Students will have the opportunity to refine their abilities to perform the related physical skills related to the specific sport. These skills will be performed under varying conditions, including simple skill development, modified game, and competition environments.

The subject will provide the opportunity to increase student contribution to the management and operations of some games/activities during PE. Students will perform specific roles (coach, captain, team manager and umpire) to further develop their involvement within sport and build skills for students to use moving forward.

Topics that may be covered:

- Fitness Testing
- Invasion Games
- Net/Wall Games
- Striking and Fielding Games

Health

Health runs for 1 period per week.

Students will develop understanding and skills in relation to dealing with relationships when there is an imbalance of power such as harassment, discrimination, and violence (including discrimination based on race, gender, and sexuality). Students will develop skills and understand the importance of reflecting on their emotional responses to challenging situations in a wide range of contexts and understand ways to manage these emotions. Students develop knowledge, understanding and skills to make safe decisions and behave in ways that protect their own safety and that of others.

Topics covered include:

- Mental Health
- Resilience, Rights and Respectful Relationships
- Gender and Sexuality
- Sex Education
- Alcohol and Drugs
- Nutrition

Assessment

- Practical Participation
- RRRR CAT
- Mental Health CAT
- Sex Ed CAT
- Alcohol and Drugs CAT
- Nutrition CAT

Resources/camps/excursions

- Sport Uniform
- Workbook

Pathways

- Year 10 Recreation Sport
- Year 10 Sports Science
- VET Sport and Rec
- Unit 1 – 4 Physical Education
- Unit 1 - 4 Health and Human Development
- VET 1 & 2 Community Services

Complimentary Subjects

Be Respectful

Be Inclusive

Be Resilient

Year 9 Science Investigation

This is a semester length subject

Students will be required to perform practical experiments and write reports analysing their results.

Students will need to investigate topics using a device

Area of Study 1 – Scientific reports

- Learn about the structure of a scientific report
- Conduct practical activities involving chemistry, biology, physics and environmental science
- Begin to devise your own experiments when researching topics of interest

Area of Study 2 – Chemistry

- Complete the practical task of the 'cookie mixture'
- Carry out chemical tests on unknown powders to determine the properties of the chemicals
- Complete the work booklet

Area of Study 3 – Physics

- Investigate space exploration
- Complete 'mars lander' practical investigation
- Examine 'flight'
- Complete practical investigation involving paper planes

Area of Study 4 – Forensic Science

- Examine crime scenes and the evidence used to convict criminals
- Complete finger print analysis practicals

Area of Study 5 – Environmental Science

- Research volcanoes
- Complete practical tasks involving volcano eruptions
- Construct an erupting volcano
- Complete a poster assignment

Assessment

- Practical Reports
- Topic theory booklets
- Student designed Science Investigation
- Poster

Resources/camps/excursions

- Device to access word, power point and research (a mobile will not be adequate)

Pathways

- Yr 10 Biology, Physics, Chemistry, Psychology, Environmental Science and Agriculture/Horticulture
- VCE Sciences

Complimentary Subjects

- Yr 9 Science
- Yr 9 Maths

Year 9 Science

In this class, students are involved in written work, reading tasks, class discussion, research assignments, interactive IT tasks, problems solving, practical tasks and student designed scientific research. They encounter all areas of Science including Biology, Chemistry, Physics and Environmental Science.

Biology

Body Coordination

- Coordinated Body Systems
- Nervous Control
- Chemical Control

Disease

- Infectious disease
- Other sources of infection
- Environmental diseases

Chemistry

Reaction Types

- Combustion and corrosion reactions
- Acid reactions
- Reactions of Life
- Nuclear reactions

Physics

Electricity

- Simple circuits
- Measuring electricity
- Practical circuits
- Electromagnets, motors and generators

Bridges

- Types of bridges
- Bridge construction
- Student designed practical project

Assessment

- Formal tests (CATs)
- Practical experiments
- Research assignments

Resources/camps/excursions

- Stationary
- Notebooks

Pathways

- Year 10
Agriculture/Horticulture, Biology, Chemistry, Physics, Psychology. Environmental Science
- VCE Ag/Hort, Biology, Chemistry, Physics, Psychology, Environmental Science
- All Science, Health, Sports Fitness, Medical Degrees
- Hospitality

Complimentary Subjects

- Mathematics
- English
- PE
- Health
- Technology subjects
- STEM/ICT

Year 9 Visual Communication

Topic 1: Freehand Drawing and Rendering

In this area of study, students will

- Learn how to draw from observation
- Learn different rendering techniques
- Explore different media
- Create a folio of rendered drawings

Topic 2: Technical Drawing

In this area of study, students will

- Learn different technical drawing methods
- Learn how to use a drawing board and set squares
- Learn the conventions of technical drawing
- Complete a folio of technical drawings

Topic 3: Design Elements and Principles

In this area of study, students will

- Learn how to identify and use the design elements and principles
- Experiment with the application of design elements and principles
- Use the design elements and principles to create an example of communication design
- Identify and discuss the use of design elements and principles in examples of visual communication.

Topic 4: The Design Process

In this area of study, students will

- Develop an understanding of the design process
- Apply the design process and create a visual communication
- Learn ways to evaluate a final presentation.

Assessment

- Folio of designs
- Written reports

Resources/camps/excursions

- A3 sketchbook
- Set squares
- Gallery excursion

Pathways

- Year 10 Visual Communication

Complimentary Subjects

- Visual Arts
- Digital Arts
- Product design and Technology

Year 9 Woodwork

During the semester, students will participate in the design, production and evaluation a timber product.

Students will continue and extend techniques learnt in year 8. Learn and follow safety procedures and the correct use and maintenance of hand tools. Techniques covered will include basic timber construction, marking, cutting and joining techniques. Projects will be more complex in construction with students producing their own designs and working drawings. Materials used will include solid timber, ply, manufactured boards, hardware fittings and stains and lacquers.

This unit covers the introduction of basic wood working techniques as well as further developing a knowledge learnt in Year 8. Techniques covered include construction of timber projects to meet the design brief. More complex timber projects require students to develop their own designs. Students investigate the safe use of a variety of hand tools and woodworking processes. Students also use computers to complete Ongoing Safety Certificates for relevant machines and workplace safety.

Assessment

- CAT – Investigating & Defining
- CAT - Design & Development
- CAT – Planning & Production
- CAT – Evaluation

Resources/camps/excursions

- Class materials are supplied but students must work within some constraints
- A4 Display folder
- A laptop is recommended
- Enclosed leather shoes (OHS requirement)

Pathways

- Year 10 Woodwork
- VET Cert II Building and Construction
- Design Technology VCE

Complimentary Subjects

- Year 10 Metal



Echuca College

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