

2023 Year 10 Pathways

Subject Summary Booklet



For more detailed information please refer to the 2023 Senior Handbook available on the College Website.

<https://www.monbulkcol.vic.edu.au/teaching-learning/senior-pathways/>

THE ARTS

ART

This unit involves the exploration of a range of materials and techniques within Art, refining their own personal style in the making of artworks. Students are able to create pieces using both 2D and 3D materials. As well as developing existing skills, students are introduced to new and specialised techniques and media to expand their own art making experiences and practice at a senior level.

Students will study other artists and analyse and evaluate artworks from different cultures, times and places and study how techniques and processes in a range of artworks can aide the development of their own art making. Students are exposed to real life industry skills through their art practice. Students are encouraged to develop a critical awareness of their own and other artists' works and to consider issues of presentation, design and composition.

Students will be required to maintain and annotate a Visual Diary that will demonstrate their development of individual ideas and personal style.

ASSESSMENT TASKS

- Visual Diary: a sequential documentation of developing ideas and refinement of art works including designs, annotation and evaluations.
- Written analysis tasks interpreting and responding to the aesthetic features of selected art works by a range of artists
- Production of final art works.
- End of semester exam.

CERAMICS

This unit provides students with a stimulating environment and a wide range of opportunities to explore, work and research in the ceramics medium. Students are encouraged to become familiar with clay and glaze technologies and develop ways of working that are appropriate vehicles for their ideas. Students will create work ranging from innovative figurative and sculptural pieces to finely made slip cast and thrown vessels. Students will become familiar with Australian and International practicing artist, as well as production throwers in design centres and commercial potteries. Students will be required to maintain a thorough Visual Diary of design processes and complete a written exam.

ASSESSMENT TASKS

- Visual Diary: a sequential documentation of developing ideas and refinement of art works including designs, annotation and evaluations.
- Written analysis tasks interpreting and responding to the aesthetic features of selected art works by a range of artists
- Production of final art works.
- End of semester exam.

In Drama in Year 10 we use the skills that have been developed in Years 8 and 9 to study specific periods in the history of theatre, both pre-modern and the modern era. The work of playwrights like Euripides, Shakespeare, Moliere, Ibsen and Chekhov are discussed and examples of their styles are workshopped on stage. Theatre styles examined in specific detail include; Elizabethan, Ancient Greek, Commedia Dell 'Arte, Epic Theatre, and Realism.

Drama is a performance subject. This means that students will be required to perform on stage, both as a group and individually. The degree to which students will perform will be based on their areas of interest, but no student will meet the requirements of this unit without carrying out some performances on stage to an audience.

Through the course of the semester, one of the above styles will be chosen for production purposes. One or more scenes from the production will be rehearsed and performed on stage. Students will learn about and take on production roles which include;

- Acting
- Direction
- Sets and Properties
- Costumes and Makeup
- Lighting and sound

The assessment for this unit will be based on a number of elements. These will include:

- Maintenance and submission of workbook
- Major assessment tasks on specific theatrical styles
- Performance activities – marked as Learning tasks through Compass
- Major performance – Folio of work produced
- Exam (written and practical elements)

VET MUSIC: CERTIFICATE III IN MUSIC: MUSIC PERFORMANCE SPECIALTY

Monbulk College is excited and proud to be able to offer VET Music to our students. Students can elect to study this subject at Year 10 as a Fast Track option, or start it as a Year 11 student. The VET Music course is very different to our previously offered VCE Music subject. The main difference is that students' study score will be performance-based. The theory and aural skills components will be used to support their performance skills but will not form part of their study score. Students will have more time to rehearse, perform and build their music industry experience.

VET Music provides students with the opportunity to apply a broad range of knowledge and skills in varied work settings in the music industry and allow students to focus on their own personal musical interests. Students will have the opportunity to perform on multiple occasions during the year in authentic industry contexts. They will gain skills in music performance, sound production, music creation and composition and music business.

Units 1 and 2 include composition, improvisation, and performance electives, as well as core studies in: working effectively in the music industry; applying knowledge of style and genre to music industry practice; copyright and OH&S. Students will also have the opportunity to record their original compositions.

This course is open to all students with an interest in developing their Music Performance skills. All students who wish to enrol in this course should have some experience on their chosen instrument, and all enrolled students will be expected to engage in individual instrumental music lessons at the college to support their progress while they are enrolled in the course.

This unit involves the exploration of a range of materials and techniques within Photography, including developing their own personal style in the making of artworks. Students will be working across a broad variation of themes and ideas, using both digital and analogue (negative black & white film and darkroom) skills. There is also an optional moving image component in this unit.

Students will study other photographers and analyse and evaluate artworks from different cultures, times and places and make connections between techniques and processes in a range of artworks to help develop their own art practice. Students are encouraged to develop a critical awareness of their own and other artists' works and to consider issues of presentation.

Students will be required to maintain and annotate a Visual Diary that will demonstrate their development of individual ideas and personal style. It will also show their exploration using different media relevant to photography using a broad range of techniques.

ASSESSMENT TASKS

- Visual Diary: a sequential documentation of developing ideas and refinement of art works including designs, annotation and evaluations.
- Written analysis tasks interpreting and responding to the aesthetic features of selected art works by a range of artists
- Production of final art works.
- End of semester exam.

VISUAL COMMUNICATION DESIGN

Visual Communication Design is a study that explores the way visual images and/or text can be used to communicate ideas, information and messages. This study relies on drawing as the main component of this 'visual language' to support the generation and visual development of ideas for intended purposes, such as advertising.

This study introduces the basic skills of technical and freehand drawing methods (Perspective, Isometric, Planometric and Orthogonal), use of industry recognised software (Adobe Creative Suite) and the application of **The Design Process** to research, generate, develop and produce final design solutions. These final solutions can be across a range of formats including; graphic and print based formats, product models and architectural models.

Students typically complete a range of practical tasks that have links to the three fields of design; Industrial (product design), Communication (graphic and publication design) and Environmental (architecture and landscape design), giving students a real world perspective on the career opportunities available to them in Visual Communication Design.

Assessment Tasks:

Visual Diary

Students complete a series of development tasks that follow The Design Process to research, generate initial ideas and trial various drawing and CAD (computer aided design) methods, media and materials to resolve their design concepts. They must evaluate their progress with reference to the design constraints outlined in the task.

Folio

Students are assessed on their final design presentations for each assessment task. Presentations are assessed on the resolution of design development, meeting the constraints of the design brief and the quality of skills and processes undertaken.

Design Analysis

Other designer's communications are analysed to consider how the designers apply elements, principles, methods, media and materials to effectively communicate intended messages.

Exam

An end of semester exam is undertaken to demonstrate the skill and knowledge learn throughout the course.

Year 10 English continues students' exploration of the forms of thinking, reading, speaking and writing that constitute the core of VCE English: reading and exploring texts, crafting texts, and exploring argument. Students will study a range of different text types and genres. As well as the study of themes, characters and issues in texts, students will become more familiar with the features and techniques used in different types of texts including film texts. Year 10 English also serves as a broad introduction to the requirements VCE VM Literacy. Throughout Year 10 English students will continue to develop their skills and knowledge, shaping the ways in which students will view the world and their place within it.

LITERATURE

Literature is for those students who enjoy reading, writing and thinking, and wish to undertake a deeper and wider analysis of sophisticated texts. The structure of Year 10 Literature is based on the VCE subject, giving you a fantastic introduction to this rigorous and rewarding subject. A range of texts are studied, including novels, short stories, poetry, plays and films.

In Literature you will be developing the skills and knowledge for a close reading of the texts set for study, and also explore elements of:

- the context(s) of its creation
- the perspective(s) of the author
- how readers interact the texts in a variety of ways
- the multifaceted relationships between literature and society

HEALTH AND PHYSICAL EDUCATION

Students can select a full year or one semester of study in Health and Physical Education by selecting HPE1 and/or HPE2.

The HPE course contains units of work that will help prepare students for the VCE units offered at Years 11 and 12:

- VCE Health and Human Development
- VCE Physical Education

Health and PE (Semester One)

In PE students will complete core units in:

- fitness assessment and development
- team & individual sports and selected recreational & outdoor activities including social dance
- peer teaching, sports coaching and development

In Health students will complete units of work linked to:

- how the human body responds and adapts to exercise including a study of the following systems: cardiovascular, respiratory & energy systems
- health issues linked to adolescence

Health and PE (Semester Two)

In PE students will complete core units in:

- fitness development
- planning and implementing personalised fitness programs
- team & individual sports and selected recreational & outdoor activities

In Health students will complete units of work linked to:

- the structure & function of key body systems linked to physical activity including the muscular and skeletal systems
- the principles of training and personalised programs aimed at improving their fitness levels
- relationships and sex education
- nutrition & exercise
- drugs & sport

HUMANITIES

HISTORY: CONFLICT AND CHANGE

Studying History encourages students to examine key events in our past, to question and analyse the ethics of Governments, cultural movements and events and to consider their own place in humanity's narrative. Year 10 History looks at major world events of the twentieth century, with a particular focus on Australia's involvement in an increasingly globalised world. Content includes:

- Australia's involvement in World War II – Pacific conflict.
- Australia's interactions with the Japanese in Papua New Guinea
- Australia's home front challenges
- Civil rights and cultural movements within Australia
- the Indigenous Rights movement in Australia
- The Vietnam War and how Australia fought and protested

In History you will examine a varied range of primary and secondary sources, including photographs, primary accounts, film, poems and songs. You will be given opportunities to research events and topics that interest you, express yourself creatively and engage in independent learning.

MONEY MARKETS & THE LAW

This subject offers the students the chance to learn about

- money and investment
- how the economy operates
- our legal system.

Questions such as what is **money**, how to manage your personal finances, what is credit and how to be a smart consumer are addressed and explored. Activities include preparing your own budget, writing out cheques, buying and financing a used car, looking for a suitable source of credit and calculating monthly repayments. Additionally, students will form their own groups to engage in a stock market simulation to see who can make the greatest returns from their investment.

When studying the **law** students examine how laws are made, key political figures and their roles, the difference between government and parliament, and an examination of civil and criminal laws. Cases like the 'Snail in the bottle' are studied, students investigate the Commonwealth Parliament and complete a case study into murder where they have to judge whether or not the accused was proven guilty beyond a reasonable doubt.

In **economics** important issues such as unemployment, inflation, interest rates and the federal budget are investigated; all issues directly affecting young adults.

GEOGRAPHY

This unit gives students the opportunity to use their geographical thinking, skills and technological tools to examine both environmental and humanitarian challenges that will affect their future lives, and to find out how geography contributes to the understanding and management of these challenges. Students will study the following elements through the semester and will focus on two areas for detailed study:

- Movement of People due to conflict
- Land conflict and human wellbeing
- Urban biophysical environments
- Urban development and decline
- Future Challenges of sustainable urban development

As part of Year 10 Geography students will undertake a fieldwork excursion enabling an opportunity to undertake a variety of practical Geography skills.

MATHEMATICS

Year 9 Mathematics

Year 10 Core Maths

Year 10 Core Maths
OR
Year 10 Advanced
Maths

Year 10 Advanced
Maths

Year 10 Advanced
Maths

Year 11
General Maths
1 & 2

Year 11
General Maths
1 & 2

Year 11
Mathematical
Methods 1 & 2

Year 11
Methods 1 & 2
+ maybe General
Maths 3 & 4 (to
boost ATAR)
+ Specialist
1 & 2

Year 12
No Maths

Year 12
General Maths 3 & 4

Year 12
Mathematical
Methods 3 & 4

Year 12
Mathematical
Methods 3 & 4
+
Specialist Maths
3 & 4

Suitable for:
students with a
requirement for "a"
maths at Year 11
only.

Suitable for:
students with a
requirement for "a"
maths at Year 12
maths only

Suitable for courses
in:
Science, medicine,
commerce,
mathematics,
engineering

Suitable for **ANY** course,
but in particular
computer science,
engineering, actuarial
studies (accounting,
commerce, finance,
insurance, banking),
mathematics, science
(veterinary)

Topic List for Year 10, 11 and 12 Mathematics.

For all VCE subjects please refer to the VCAA Study Design for further details and the Monbulk College Senior Handbook.

<p>Year 10 Core Mathematics</p> <ul style="list-style-type: none"> • Geometry & Measurement • Pythagoras & Trigonometry • Algebra • Money & Finance • Probability • Statistics • Linear & non-linear relationships 	<p>Year 10 Advanced Mathematics</p> <ul style="list-style-type: none"> • Geometry & Measurement • Pythagoras & Trigonometry • Algebra • Indices • Probability • Statistics • Linear & non-linear relationships 	
<p>General Maths 1 & 2</p> <p>Year 11 subject</p> <ul style="list-style-type: none"> • Algebra & structure • Arithmetic & number • Discrete Maths • Geometry, Measurement & Trigonometry • Graphs of linear & non-linear functions • Statistics 	<p>Methods 1 & 2</p> <p>Year 11 subject</p> <ul style="list-style-type: none"> • Functions & Graphs • Algebra • Calculus • Probability & Statistics 	<p>Specialist 1 & 2</p> <p>Year 11 subject</p> <ul style="list-style-type: none"> • Arithmetic & number • Geometry, measurement & trigonometry • Graphs of linear & non-linear • Algebra & structure • Discrete maths • Statistics
<p>General Maths 3 & 4</p> <p>Year 12 subject (<i>May be undertaken at Year 11 to boost ATAR, see requirements**</i>)</p> <ul style="list-style-type: none"> • Data analysis • Recursion & financial modelling • Matrices • Networks <p>(Updated topics)</p>	<p>Methods 3 & 4</p> <p>Year 12 subject</p> <ul style="list-style-type: none"> • Functions & Graphs • Algebra • Calculus • Probability & Statistics 	<p>Specialist 3 & 4</p> <p>Year 12 subject</p> <ul style="list-style-type: none"> • Functions & graphs • Algebra • Discrete Maths • Calculus • Vectors • Mechanics • Probability & statistics
<p>**Students may automatically undertake General Maths 3 & 4 in Year 11 if grades of B or higher are obtained in all Assessment Tasks in Year 10 Maths Advanced. Students are advised to undertake Methods Units 1 & 2 in Year 11 to consolidate their learning, followed by Methods and/or General Maths 3 & 4 in Year 12.</p> <p>Students are advised that it is essential to refer to tertiary handbooks for specific mathematics requirements for all courses.</p>		

SCIENCE

SCIENCE-FULL YEAR

This unit will focus on developing student understanding of biological, chemical, physical, psychological and forensic science in preparation for VCE. Students look at the role of DNA and genes in cell division and genetic inheritance and how this is used in modern forensic science. They study the brain, behaviour and mental processes to work out why we do what we do. They learn to apply geological timescales to explain natural selection and evolution. Students investigate the chemical behaviour of elements, their compounds and their atomic structures using the periodic table. They learn to use atomic symbols and balance equations to summarise chemical reactions. Students learn to give both qualitative and quantitative explanations of the relationships between distance, speed, acceleration, mass and force to predict and explain motion. They investigate the Big Bang theory and features of the universe including galaxies, stars and solar systems.

SCIENCE-SEMESTER

In this unit Students learn concepts from biological, chemical and physical science in preparation for VCE. Students look at the role DNA plays in cell division and genetic inheritance. Students investigate the chemical behaviour of elements, their compounds and their atomic structures using the periodic table. They learn to use atomic symbols and balance equations to summarise chemical reactions. Students learn to give both qualitative and quantitative explanations of the relationships between distance, speed, acceleration, mass and force to predict and explain motion.

VCE AGRICULTURE AND HORTICULTURE

A good option to fast track a VCE science unit for those that have a green thumb.

You will learn about:

- Livestock management
- Farming and land management
- Crop development

JAPANESE

Learning a second language is the best introduction to another culture. It is a powerful skill to have in a modern world where traditional boundaries both cultural and geographic are diminished by fast modes of communication such as email, social media and Skype. A second language gives students the ability to compete on a global and multilingual job market as well as opportunities to travel to Japan on the College student exchange and tour.

Year 10 Japanese students build on their language skills and engage in intercultural interactions and activities. They listen to, read and view a range of imaginative texts in modern and traditional multimodal formats, such as anime, manga, J-pop or Kabuki. They compare views, state opinions, and present information in different formats to inform or interest others. Students also learn about the systematic nature of the Japanese language and grammatical forms, exploring how to use these to express complex ideas. They increase their knowledge of *Kanji* (Chinese characters). Creating an itinerary and travel kit for a unique Japan experience is a major study at this level.

TECHNOLOGY

FOOD TECHNOLOGY

This semester length subject offers the student the opportunity to learn about:

- food hygiene and safety, including food regulations
- the history of the Australian foods
- current food trends and related topics including cultural influences on food choices, nutritional considerations and sustainable food production
- food science – the role of the ingredients used in baking
- the design process and food production.

Students will gain an insight into the role of food in our society. Production activities reflect the theoretical component of the course and will involve complex processes including producing meals reflecting a variety of cultural backgrounds and complex baking activities such as biscuits, cakes and baked yeast goods.

The design process is integral to Food Technology studies and there is some scope for student choice in major assessment tasks.

METAL TECHNOLOGY

10 Metal emphasises the engagement in designing, creating and evaluating via the design process.

It involves practical and applied knowledge as well as theoretical understanding. It requires students to be creative problem-solvers who respond to design briefs from which solutions are created to show their understanding of the suitability of materials, equipment and techniques to produce functional outcomes.

Students use materials such as sterling silver and semi-precious gems to construct jewellery items. As well as other projects both small and large scale, include learning the techniques of arc welding, plasma cutting and printing on metal.

This course gives students a balance between design skills to mastery of technique and technical execution.

SYSTEMS ENGINEERING (Year 10)

This study focuses on using fundamental mechanical and electronic engineering principles to design and construction a medium sized robotic project. Students use 3D modelling, 3D printing, laser cutting, soldering and programming in the creation of their robot and document their progress in an online record. At the conclusion of the subject student robots compete in a series of challenges.

WOOD TECHNOLOGY

Students build on their skills and knowledge in this subject by designing and constructing a piece of furniture, namely a table with a drawer or shelf.

They use and continue to hone their skills in the designing stage and the use of tools, both hand-tools and power tools.

In readiness for VCE they complete a design brief, outlining the context of the problem and the constraints and considerations. They complete rough sketches, technical drawings and a cutting list before they begin production. They also learn how to effectively evaluate their product to grade its success.

They are introduced to the Product Design Process as a method for producing their work. They learn how to apply Dowel Pin, Biscuit and Housing Joints to complete their product. They can use the Jig saw, the Circular saw and the router to help finish their product.

The second project is a self-directed one. Students research and submit a design brief and, if approved, are able to make a product of their own choosing. This product is entirely up to them, within reason, and a great opportunity to demonstrate their skills and knowledge of woodworking.

VCE VET CREATIVE DIGITAL MEDIA

VCE VET CDM is a 2-year Certificate III in Media that provides both a qualification and contribution to a VCE or VCAL program. So, in a VCE Program, the first year counts as Unit 1 & 2; and the second year as Unit 3 & 4. And as it's a 'scored' subject, you receive a study score and contribution to your ATAR.

Students can elect this subject as a Year 10 Fast Track option or start it as a Year 11 student. For students undertaking this subject in year 10 but thinking of following through to a VCAL program, this provides industry units that make your VCAL easier to attain.

Students will learn about digital media, including websites, animations, digital imaging/illustration software and a little bit of video... And produce products that meet design brief requirements. And, it's pretty fun!

It is a design subject (and there are some folio requirements, but not big ones!), for students who are interested in both computers and/or design. It's hands on and we make products, but there is also some theory too. However, the learning is pretty fun and we learn by 'doing'. Some of the products you will make in Unit 1 & 2 of the course are:

- Lip Synch Animation
- Children's TV Animation Pilot
- A website
- And lots of other cool stuff...

You will learn how to use Adobe Creative Cloud Suite software including Illustrator, Photoshop, Flash, Dreamweaver and Premier. We work in a digital environment and use Compass, Moodle and email to both work and communicate in class. So you are not just learning skills about this industry, but also how communication works in TAFE and university; and skills that you could use in the workplace!



CFA CERTIFICATE II IN PUBLIC SAFETY

Have you ever wanted to be in control of a fire hose? Do you see yourself as the take charge person who can think quickly and act appropriately? If so, our CFA course might be for you.

Students will complete units from – PUA20712 Certificate II in Public Safety (Firefighting Operations)

They will learn about basic fire safety for homes and how to use some firefighting equipment such as fire extinguishers and fire hoses. Students are assessed on participation in practical activities, workbook completion and unit tests.

This is a nationally recognised course taught by professional firefighters. The Certificate II in Public Safety can give credit at Unit 1&2 level for year 11 VCE and VCE Vocational Major.

CERT II Workplace Skills

BSB20120 Certificate II in Workplace Skills

The Certificate II level program prepares students for entry-level positions across a diverse range of business services settings and can help to open the door to a vast array of non-technical employment opportunities. It can also lead to further study in either technical or non-technical vocations and aims to develop the most common and transferable skills and knowledge required of almost any workplace. The Certificate II in Workplace Skills can give credit at Unit 1&2 level for year 11 VCE and VCE Vocational Major.

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