



MONASH
University



MONASH
College

MONASH ADVANCED PREPARATION PROGRAM

Unit Description





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Unit Overview

MPP1010 Introduction to Academic Communication

This unit helps you develop your English language and communication skills for university study. It supports your transition to university by focusing on three key areas: academic skills, behaviours, and values.

You will practise academic language for Humanities, Business, and Science, and explore how different disciplines bring diverse perspectives to real-world issues. You will also build your abilities in reading, listening, writing, speaking, critical thinking, and research.

Through activities and assessments, you will practise both independent and group learning. The unit helps you use effective strategies for study in a modern, digital environment and prepares you for success in your academic journey.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Critically analyse academic texts to identify key arguments, evidence, and conclusions.
- Demonstrate the ability to accurately follow verbal instructions and to critically interpret and evaluate spoken content in academic contexts.
- Participate in academic discussions, demonstrating active listening, critical thinking and the ability to articulate and sustain viewpoints.
- Deliver a clear, well-organised presentation on an academic topic, presenting and justifying arguments using supporting evidence and examples.
- Write a clear, well-structured academic text, following academic conventions, including structure, register, signposting and discipline-specific referencing conventions.
- Demonstrate critical, analytical and evaluative skills via selecting, synthesising, and critically analysing a range of academic sources.

Assessment Tasks

- A1: Socratic Seminar – 25%
- A2: Reflective Journals – 20%
- A3: Research Task Draft – 10%
- A4: Research Task Final – 25%
- A5: 3-minute Thesis – 20%



Unit Overview

MPP1020 Accounting for Business

This unit introduces you to the basic principles and practices of accounting in business. You will learn how accounting helps businesses record and report financial information, and why this information is important for decision making.

You will practise preparing and reading financial statements and budgets. You will also explore some simple management accounting ideas and see how accounting supports planning and business performance.

Through case studies and practical exercises, you will connect theory to real business examples. This unit is especially useful if you are interested in careers in business, finance, management, or entrepreneurship.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Define the fundamental accounting elements (assets, liabilities, equity, revenue, and expenses) and explain generally accepted accounting principles (GAAPs) and the key characteristics of financial information.
- Apply the rules of the double-entry method to accurately record accounting transactions for service and trading businesses.
- Prepare adjusting entries at the end of an accounting period (including accruals, prepayments, and depreciation), and explain their impact on the key financial statements.
- Prepare, analyse and interpret key financial statements (including the Income Statement, Balance Sheet, Statement of Changes in Equity, and Cash Flow Statement) by applying appropriate accounting standards to show a business's performance, position, and cash flow.
- Prepare business budgets by applying appropriate management accounting principles and interpret these to inform planning, control, and decision-making in diverse business contexts.
- Collaborate effectively in a group project to achieve common goals by contributing ideas and using appropriate interpersonal skills.
- Present and communicate fundamental accounting ideas and concepts clearly and effectively to their peers through verbal, written, and visual formats.

Assessment Tasks

- A1: EAT and Post-class Concept and Knowledge Quizzes – 20%
- A2: In-class Groupwork – 10%
- A3: Midterm Test – 20%
- A4: Group Assignment and Oral Presentation – 20%
- A5: Knowledge & Application Assessment and Oral Interview – 30%



Unit Overview

MPP1030 Introductory Economics

This unit introduces you to the study of economics, which looks at how people and societies make choices when resources are limited. You will learn about both microeconomics (decisions by individuals and businesses) and macroeconomics (how whole economies work).

The unit covers key topics such as demand and supply, markets, economic growth, inflation, and unemployment. You will practise using graphs and examples to explain these ideas and apply them to real-world situations.

Through discussions, problem-solving, and written tasks, you will build your skills in analysing economic issues and communicating your ideas clearly.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Explain scarcity, opportunity cost, types of resources and efficiency by using the Production Possibility Frontier (PPF) model.
- Draw and interpret demand and supply diagrams to explain how market changes affect equilibrium price and quantity, and describe the resulting impact on resource allocation.
- Compare and contrast the four key market structures (Perfect Competition, Monopolistic Competition, Oligopoly, and Monopoly) using real-world examples, and evaluate the role of markets in achieving efficiency.
- Apply the Circular Flow, Aggregate Demand and Supply, and Business Cycle models by accurately drawing, interpreting and analysing them to explain changes in economic conditions using real-world examples.
- Apply the macroeconomic goals of economic growth, price stability, and full employment to real-world examples and evaluate how successfully economies have achieved these goals and the resulting implications for living standards.
- Present and communicate ideas and concepts related to economic models, theories, and real-world applications clearly and effectively through verbal, written, and visual formats.
- Demonstrate critical, analytical and evaluative skills via selecting, synthesising, and critically analysing a range of economic sources.

Assessment Tasks

- A1: Learning Log – 25%
- A2: Microeconomics Quiz – 10%
- A3: Skills and Application Test – 20%
- A4: Group Research Essay – 25%
- A5: Research Essay Discussion – 20%



Unit Overview

MPP1040 Introductory Mathematics for Business

This unit helps you use mathematics to solve problems in business and everyday life. You will learn how to read and create graphs and tables, and use them to understand break-even analysis and other practical situations.

You will also study basic algebra, equations, and inequalities, and see how they can model different types of relationships. The unit introduces sequences, growth and decay, and key ideas in financial maths, such as interest, loans, and depreciation.

Finally, you will learn simple matrix methods and practise using them to solve problems. Activities focus on applying maths concepts in clear and practical ways.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Interpret and apply key features of linear and non-linear relationships using graphs, tables, and main characteristics.
- Calculate solutions for simultaneous linear equations in two variables using elimination, substitution, and graphical methods.
- Apply the concept of break-even analysis and interpret graphical and tabular representations of linear relationships in practical contexts.
- Solve optimisation problems by applying knowledge of linear inequalities and systems of inequalities using a linear programming approach.
- Use sequences and formulas to model growth and decay, and calculate values for financial situations, such as percentage change, tax, interest, loans, and depreciation.
- Apply matrix properties to address problems involving data arrays, and use matrix methods to analyse and find solutions to systems of simultaneous linear equations.
- Construct and communicate logical mathematical reasoning using clear and coherent written and verbal explanations.

Assessment Tasks

A1: Weekly In-Class Collaborative Exercise – 26%

A2: Test 1 and Test 2 – 24%

A3: Group Start-up Project – 20%

A4: Reflections on Industry Insights – 10%

A5: Group Oral Presentation – 20%



Unit Overview

MPP1050 Applied Mathematics

This unit introduces you to different types of mathematical functions and how they are used to describe real-world problems. You will learn about linear, polynomial, rational, exponential, logarithmic, and trigonometric functions, and how their graphs can change through shifting, stretching, or reflecting. You will also explore inverse functions and how functions can be combined.

You will then build on this knowledge to study the rate of change of functions, using the basic ideas of differential calculus. You will also be introduced to integral calculus.

Through examples and practice, you will apply these concepts to solve problems and prepare for further study in mathematics and its applications.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Identify and represent key number sets (such as natural numbers and integers) using set notation, interval notation, and graphical techniques on the real number line.
- Identify and represent sets in real world contexts and perform basic set operations.
- Describe the key characteristics of elementary functions using tables, graphs, and mathematical expressions.
- Manipulate functions using a range of methods from algebra and calculus.
- Model simple physical systems using functions and relevant mathematical methods.
- Construct and communicate logical mathematical reasoning using clear and coherent written and verbal explanations.

Assessment Tasks

- A1: Problem Sets – 20%
- A2: Problem-Solving Task & Group Presentation – 20%
- A3: Mathematics Investigation Project – 10%
- A4: Test 1 – 10%
- A5: Test 2 – 20%
- A6: Assignment & Interview – 20%



Unit Overview

MPP1060 The Modern World

This unit explores the main political, cultural, and social forces that have shaped the modern world. You will study important ideas and historical events, and see how they influence contemporary global societies. You will also learn about the conflicts and tensions between different ideologies, and how these have contributed to the world we live in today.

You will examine these forces through case studies and key themes that show how history connects to present-day issues.

Through discussions, presentations, and written tasks, you will practise analysis and reflection, and consider your own role and responsibilities as a member of today's global community.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Explain key political, economic, religious and philosophical ideas or events and evaluate their influence on the development of the modern world, using relevant historical and contemporary examples.
- Analyse how at least two key ideas or events from the past have either endured or evolved over time, and explain their impact on modern society to their peers.
- Reflect critically on their position in the modern world by applying course concepts to analyse how culture, technology, or society influences and shapes their values and actions.
- Communicate effectively in academic settings by presenting clear ideas supported by relevant evidence or examples and participating actively in discussions.
- Write clear and well structured academic texts that apply academic conventions including appropriate organisation and language, use of evidence to support arguments, and acknowledgment of others' ideas through accurate referencing.

Assessment Tasks

- A1: Weekly Reading Quiz – 10%
- A2: Current Issues Presentation – 20%
- A3: Reflective Writing – 15%
- A4: Socratic Seminar 1 – 15%
- A5: Extended Response – 20%
- A6: Socratic Seminar 2 – 20%

Unit Overview

MPP1070 Psychology

This unit gives you an overview of psychology, the study of human thoughts, feelings, and behaviours. You will be introduced to key areas such as personality, learning, biological psychology, forensic psychology, memory, and research methods. You will also learn how to use correct procedures for citing sources and creating reference lists according to APA guidelines.

The unit shows psychology as both a science and a practice. You will see how psychological principles help us understand behaviour and how they can be applied to many fields, including counselling, business, science, politics, and marketing.

Through activities, readings, and assignments, you will practise scientific thinking, develop your research skills, and build a broad understanding of psychology as a discipline.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Explain key psychological concepts, theories, and perspectives that provide the basis for understanding human behaviour and mental processes.
- Explain how and why psychology uses the scientific method to develop evidence-based explanations of human behaviour.
- Apply psychological concepts, theories and models to everyday life in order to explain contemporary issues (e.g. social media use, group pressures and dynamics).
- Locate, interpret, and use scholarly literature to provide support for explanations and arguments about psychological theories, concepts, and models.
- Demonstrate self-awareness and critically evaluate own behaviour when interacting with others in preparation for future learning or professional practice.
- Communicate psychological concepts and findings clearly and effectively in written and oral formats using appropriate academic language and APA style conventions.

Assessment Tasks

A1: Weekly Online Quizzes – 30%

A2: Essay Plan – 10%

A3: Annotated Bibliography – 16%

A4: Essay Plan and Annotated Bibliographies Discussion – 20%

A5: Group Oral Presentation – 24%



Unit Overview

MPP1080 Physics Foundations

This unit introduces you to the study of matter, energy, and forces. You will explore topics such as the behaviour of construction materials under loads, rotational motion, gravitational fields, Newton's law of universal gravitation, electric fields and charges, simple and complex circuits, magnetism, atomic theory, and basic ideas in modern physics.

You will see how these concepts apply in real-world contexts by analysing materials and structures, and by investigating how forces and energy interact. The unit also covers methods of practical investigation and links theoretical knowledge to experimental work.

Through hands-on experiments and project-based tasks, you will develop observation, testing, and problem-solving skills. Group work will also help you practise communication, collaboration, coordination, and time management.

Prerequisite

Students should have completed an equivalent to Victorian VCE Year 11 Physics, Units 1 & 2.

Learning Outcomes

On completion of this unit, you will be able to:

- Develop attitudes that include curiosity, open-mindedness, creativity, flexibility, integrity, attention to details and respect for evidence-based study.
- Develop a range of individual and collaborative science inquiry skills through a variety of investigation methodologies in the laboratory and field, refining investigations to improve data quality, analyse and interpret qualitative and quantitative data to provide evidence, recognising patterns, relationships and limitations of data. Demonstrate knowledge of the value of practical work.
- Understand the research, ethical and safety guidelines that govern the study and practice of the discipline and apply these guidelines to generate, collate, analyse and critically evaluate.
- Develop knowledge and understanding of key models, concepts, theories and laws of science to explain scientific processes and phenomena, and apply this understanding in familiar and unfamiliar situations, including personal, sociocultural, environmental and technological contexts.
- Communicate clearly and accurately an understanding of the discipline using appropriate terminology, conventions and formats. Communicate effectively through oral and written communication skills.

Assessment Tasks

A1: Laboratory Work and Report Writing 25%
A2: Test 1 – 10%
A3: Scientific Inquiries – 10%
A4: Project Design – 30%
A5: Site Visit and Student Interview – 10%
A6: Test 2 – 15%



Unit Overview

MPP1090 Biology Foundations

This unit explores the fundamental processes and patterns of life on Earth. You will study how living organisms grow, develop complex structures, and pass on their genetic material to the next generation. Key themes include biochemistry, cell structure and systems, cell division and reproduction, genetics and evolution, biodiversity, and ecosystems.

You will examine how animals and plants adapt to new and changing environments through gene mutation and natural selection. The unit also looks at interactions within and between species, and how living things connect with their physical environment.

Through readings, experiments, and practical activities, you will investigate the principles of biology and see how they explain the great variety of life on Earth.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Identify and describe the concepts, processes and practical applications of cell biology, biochemistry, genetics, molecular biology and processes of evolution in society and everyday human life.
- Demonstrate proficiency in communicating scientific results through a range of formats (written and oral).
- Formulate hypotheses, collect experimental data and demonstrate proficiency in interpreting their results.
- Demonstrate understanding of the use of common life sciences equipment and techniques.
- Utilise research skills including database searches to synthesise and interpret information related to scientific research, using appropriate conventions for scientific attribution.
- Work effectively, responsibly, safely and ethically, both individually and in peer or team contexts.

Assessment Tasks

- A1: Weekly Content Quiz – 10%
- A2: Early Assessment Task– 8%
- A3: Laboratory Skills and Report Writing – 30%
- A4: Biotechnology Communication Assignment – 20%
- A5: Biotechnology Infographic Presentation – 17%
- A6: In class test – 15%



Unit Overview

MPP1100 Chemistry Essentials

This unit introduces you to important ideas in chemistry, with a focus on energy changes in chemical reactions. You will study thermochemical and electrochemical processes, as well as chemical equilibrium and the factors that affect reaction rates.

You will also learn about the structure and naming of simple organic molecules and how chemists identify them using laboratory methods.

Throughout the unit, you will practise writing, presenting, and using scientific language, while building laboratory skills through experiments and data analysis.

Prerequisite

Students should have completed an equivalent to Victorian VCE Year 11 Chemistry, Units 1 & 2.

Learning Outcomes

On completion of this unit, you will be able to:

- Apply stoichiometric principles to quantify moles, mass, and concentration of substances undergoing chemical transformations in real-world or laboratory contexts.
- Analyse factors that influence the rate of chemical reactions and use thermochemical analysis to estimate energy transfer between a system and its environment.
- Calculate the equilibrium concentration constant for shifting reversible reactions and plot concentration time graphs to show how the equilibrium position responds to changes in the surrounding environment.
- Explain how batteries and cells work using electrochemical reactions and evaluate their design performance using experimental parametric analysis.
- Name simple organic compounds found in everyday food and medicine and analyse their chemical structure to predict their properties.
- Select and apply appropriate chromatographic and spectroscopic techniques to obtain and interpret data about the chemical structure and composition of organic molecules.
- Communicate scientific ideas and investigations effectively through written and oral formats including scientific reports or oral presentations.

Assessment Tasks

- A1: Post Class Quizzes – 15%
- A2: Early Assessment Task – 5%
- A3: Laboratory Skills and Report Writing – 30%
- A4: Skills and Application Tasks – 25%
- A5: Oral Presentation – 25%

Unit Overview

MPP1110 Cyber and Digital Foundations

This unit introduces you to the basic principles of digital technologies and cybersecurity. You will learn how computer systems work, including hardware, software, data, and simple programming. You will also practise using common applications such as word processing, spreadsheets, and presentations, and learn how to share your ideas clearly in written and spoken form.

You will explore the main ideas in cybersecurity, including threats, risks, and digital ethics, and understand why they matter in everyday digital life.

Through practical tasks and case studies, you will develop digital literacy, problem-solving, and critical thinking skills, and gain confidence in using technology responsibly and securely.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Demonstrate digital literacy in a collaborative online environment by creating and sharing digital artefacts using G Suite tools (Docs, Sheets, Slides).
- Collect, analyse, and visualise data using Google Sheets to support evidence-based decision-making in class activities and assessment tasks.
- Educate a general audience on online safety by explaining key cybersecurity concepts, common threats, personal risks, and protection strategies.
- Write and test a basic Python program, using inputs, outputs, and conditionals to solve a simple, everyday problem.
- Recommend and justify the selection of appropriate digital systems (including hardware and software) for a specified context, drawing on basic knowledge of computing components.
- Present and communicate ideas and concepts related to cybersecurity, digital tools, data analysis, and programming clearly and effectively through verbal, written, and visual formats.

Assessment Tasks

- A1: Quizzes – 16%
- A2: G-Suite Reflection – 6%
- A3: Cybersecurity Report and Awareness Poster – 28%
- A4: Computer Components – Case Study and Role Play – 20%
- A5: Data Analysis Project – 30%



Unit Overview

MPP1140 Media Studies

This unit introduces you to the study of media and communication and how it has developed over time. You will learn about key ideas in mass communication theory and explore the barriers that can affect the way people share information. The unit also examines how different media and messages influence social and cultural groups.

You will study the history and growth of communication media, and analyse how these changes affect societies today. This will help you understand both the power and the challenges of communication in a global world.

Through readings, discussions, presentations, and written tasks, you will build knowledge, concepts, and analytical skills that prepare you for further study in media, communication studies, and journalism.

Prerequisite

No prerequisites are required for this unit.

Learning Outcomes

On completion of this unit, you will be able to:

- Understand how mass communication has developed throughout history and the important events each form.
- of mass media has shaped.
- Understand the concept of 'audience' related to the developing communication technologies.
- Examine the notion of power in the media, and the ways in which communication tactics and tools have been.
- used historically both by the media, and by those in power, to influence public opinion.
- Analyse the practical tools of media production, such as television. Analyse the importance of new and emerging communication technologies in society such as digital media.

Assessment Tasks

- A1: Short form video – 10%
- A2: Media Industries and Concepts Test– 25%
- A3: Reflection on ACMI Excursion – 10%
- A4: Documentary Film Pitch – 15%
- A5: Documentary Project – 30%
- A5: Documentary Film Q&A – 10%



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