

Monash University Foundation Year

Monash College, Australia

Brief Unit Outlines

English Unit 1: Academic Skills and Composition

English develops students' language, research, organisational and study skills to prepare them for tertiary education in Australia. They will learn how to speak confidently, listen, understand and analyse ideas, and become a strong reader and writer of academic English.

English Unit 2: Exploring Ideas

This unit is intended to build on the skills developed in English Unit 1: Academic Skills and Composition. Students will further develop language skills (writing, speaking, listening, and reading), research, organizational, argumentative, and study skills. In addition, they will explore a range of concepts through reading and responding to texts and develop their understanding of academic writing conventions.

Fundamental Mathematics Unit 1: Applications of Mathematics

This course will give students the opportunity to develop mathematics skills which can be applied in their everyday lives.

There will be a focus on understanding the world through patterns and relationships, and development of financial skills.

Fundamental Mathematics Unit 2: Data Analysis

This course will give students the opportunity to develop mathematics skills which will be relevant for future study, and careers across a variety of sectors. There will be a focus on understanding the world through data, and using analysis to make data meaningful. There will be an opportunity to build on the skills learnt in Unit 1, and extend them into the study of probability and statistics.

Mathematics Unit 1: Functions and Calculus

This course explores the properties of a wide range of functions and their graphs, as well as the calculus process of differentiation. Applications of these properties and processes are an important part of this unit. In this course, students will develop the critical, logical and communicative skills to solve real world problems using higher order mathematical concepts.

Mathematics Unit 2: Integration, Probability and Statistics

Unit 2 explores the concepts within the study of Integration, Probability Theory, Probability Distributions and Statistics. This course is a continuation of calculus from Mathematics Unit 1, as well as exploration of probability and statistics. Applications of these concepts and processes are an integral part of this unit. In this course, students will gain valuable insights into the influence of data and develop mathematical skills that can be widely applied in areas of higher order thinking.

Advanced Mathematics Unit 1: Essential Concepts

This course is the answer to 'why' and the key to gaining lifelong transferrable mathematical skills by applying higher order thinking skills and exploring sophisticated ideas for real world applications. Students will learn to explain, link essential mathematical concepts by applying elegant mathematical techniques. This will give students the opportunity to develop their literacy and ways of critical and creative thinking through mathematical discourse.

Advanced Mathematics Unit 2: Calculus with Applications

Gaining critical problem solving skills is what this course is about.

Learning the language of mathematics, particularly involving calculus, sets a student up to tackle real world problems.

Exciting careers await those with these skills and strong mathematical knowledge.

Accounting Unit 1: Fundamentals of Accounting

Unit 1 Accounting is the first unit of the Monash University Foundation Year Accounting course. This course is designed to provide an introduction to accounting concepts and vocabulary and build skills in recording and reporting financial information.

In Study Area 1, students will investigate the stages of the accounting process and the relationship of accounting elements in the accounting equation. In Study Area 2, students will record financial data and in Study Area 3, students will report financial information.

Accounting Unit 2: Financial Accounting

Unit 2 Accounting is the second unit of the Monash University Foundation Year Accounting course. This course is designed to extend on the accounting concepts covered in Unit 1.

In Study Area 1, students will record and report transactions related to stock. In Study Area 2, students will record and report balance day adjustments and in Study Area 3, students will analyse financial reports to evaluate business performance.

Economics Unit 1: Introduction to Microeconomics

Economics studies choices that individuals, firms and governments make when allocating resources in an economy. This subject explores economic issues and the effect these have on our daily lives.

Economics Unit 2: Introduction to Macroeconomics

While Microeconomics involves analysing economic decision making of individuals and firms at a market or personal level, Macroeconomics takes a broader approach and considers the behaviour of the entire economy in terms of its output, income, employment and other indicators. This unit will introduce students to macroeconomic goals of an economy, the ways in which achievement of these goals is measured and the models we use to analyse causes and effects in the economy. Students will learn about government policies that can assist in achieving goals and lead to higher living standards for everyone. Finally, students will analyse the way in which an economy's interactions with the rest of the world impact on its performance.

Information and Communication Technology Unit 1: Introduction to Computers and Programming

In this unit students will focus on processing data into information, using digital systems, to create information products.

In Study Area 1 students will collect primary data, use spreadsheet software to interrogate the data, then present their findings to an audience. In Study Area 2 students will be introduced to programming by creating applications using the Scratch programming environment. In Study Area 3 students will examine how digital system components are used to convert data into information.

Information and Communication Technology Unit 2: Programming, Database and Data Science

In Unit 2 ICT students will focus on how data is acquired, managed, and manipulated to meet a particular need.

In Study Area 1 students will examine how database management systems are used to store and manipulate data. In Study Area 2 students will acquire data sets from secondary sources then manipulate the data and create a report. In Study Area 3 students will use a programming language to create working Units.