

# Course information

Students in the Tertiary Preparation Program will study two core courses and three elective courses. You can choose your electives to meet the entry requirements for your chosen undergraduate program.

A Humanities stream is also recommended for students who intend to study in the Faculty of Humanities and Social Sciences.

CORE COURSES		ELECTIVE COURSES
Academic English	General Mathematics OR Mathematical Methods	Choose 3 Elective Courses

## Core Courses

### Academic English

This core course focuses on developing the academic language skills required to successfully read, write, listen and speak in academic contexts. As well as developing fluency and accuracy in each skill, learners will be introduced to core academic skills including assignment writing, referencing, critical thinking, oral presentations, and research skills such as using databases and library facilities.

### General Mathematics

This course provides the knowledge, skills and techniques required in an every-day life application of mathematics as appropriate to the skills needed when encountering mathematics in a non-mathematically based tertiary course. This course covers basic calculations, geometry and measurement, financial mathematics and statistics.

### Mathematical Methods

This course develops your understanding of the mathematical concepts of algebra, calculus and statistics and the manipulative skills required for solving mathematical problems. These skills are applied with technological tools to solve problems related to real-life situations. Topics covered include linear equations, computation, sequences and series, logarithmic functions, trigonometry, differential and integral calculus, statistics and probability.

## Elective Courses

### Accounting

This aim of this course is to provide an introduction to accounting concepts, including the accounting equation and accounting process, the preparation of end of period reports, accounting for cash, accounting for credit, control of inventories and assets, and company accounting.

### Behavioural Science

This course provides a general introduction to the social sciences through examining human behaviour and the role that the individual plays in the wider community. The course will initially address the psychology of the individual, covering memory, social influence, learning and research. It will introduce sociology by exploring how the broader community responds to some of these issues, with a focus on interpersonal and intercultural communication. This course is recommended for students wishing to progress to programs within the Faculty of Humanities and Social Sciences.

### Business Management

This course covers a broad range of management concepts and business operations that contribute to the success of businesses large and small. These include an understanding of business principles, planning (strategic and operational), marketing, organisational behaviour, finance and human resource management. Throughout the course the theory is discussed in the context of business cases which can include domestic and global businesses. You will apply the theory learnt in class to plan your own business enterprise, as well as developing a business enterprise within a project team.

### Biology

This course will provide you with knowledge of scientific concepts and facts in biology, and experience with experimentation in a biology laboratory. Biology is the study of life, which encompasses origin, development, diversity, functioning and evolution of living systems and consequences of intervention in those systems. This course prepares you to engage in creative scientific thinking and to apply your knowledge in practical situations.

### Chemistry

This course examines the experimental and theoretical basis for understanding the structure and function of all forms of matter. This course introduces you to the basic principles, processes and skills of physical, inorganic and organic chemistry. You will study the concepts of matter, including classification and description, measurement, mathematical concepts applicable to chemistry, atomic theory and structure, chemical formulas. You will also learn about nomenclature, mass and energy relationships in reactions, reactions in aqueous media, gases, thermochemistry, quantum theory, and periodic relationships of the elements.

### Design

This course provides an introduction to the fundamental processes and methods of design as it applies to built environment, engineering, and business disciplines. The course examines topics such as designers' thinking styles, the work of designers, problems for solving by design, stakeholder engagement in design problem-solving, generating design solutions, communicating design solutions and reflective learning about self as designer.

### Economics

This course is designed to provide students with an introduction to broad based economic issues. It focuses on how decision makers within the economy (e.g. consumers, firms, government departments) make choices to satisfy their wants given their limited resources. In this course you will develop your ability to make economic decisions based on analysis of economic information.

## Health and Nutrition

This course will introduce you to the influence of diet and exercise on health, fitness and well-being. You will develop and apply the knowledge and skills to understand the function of nutrients in the body, food trends and how the body responds to exercise. You will learn how to use diet and exercise to prevent diet and lifestyle related diseases, maintain a healthy body weight and how nutrition can be used to enhance exercise performance. You will develop skills in communicating your knowledge of the importance of healthy eating and exercise to the wider community.

## Humanities and Social Sciences

This course provides an introduction to the fundamental concepts of the Humanities and Social Sciences. The course examines topics such as Global Strategies and Perspectives, and Creative Arts and History, to develop skills in critical and creative thinking, research and evaluation, argument mapping, problem solving and reflective learning. This course is recommended for students wishing to progress to programs within the Faculty of Humanities and Social Sciences, and is a core course for students in the Humanities stream.

## Information Technology

This course will provide you with the knowledge and skills related to the utilisation of information and communication technology and their application to contexts such as work and study environments. This course will examine the key areas of computing hardware, software, and the application of the technology to problem solving.

## Physics

This course aims to develop an understanding of key concepts in physics and their application in modern society. The course describes the performance outcomes, skills and knowledge required to apply the concepts of motion and force when conducting practical investigations and solving physics problems. You will examine the fundamentals of measurement, vectors, kinematics and dynamics.

## Research

This course provides the opportunity to research a topic of your own choosing. This will involve a structured, supervised and academically rigorous process. You will develop skills to apply concepts, terminology and principles of research to develop and complete a research project on an agreed topic within a chosen discipline.

## Humanities Students

The following courses are recommended for students whose preferred undergraduate program is in the Faculty of Humanities and Social Sciences.

A maths course is not compulsory for Humanities students. However, students intending to progress into Education or dual degree programs at The University of Queensland must select Mathematics as an elective course.

### Core Courses

- Academic English
- Humanities and Social Sciences

### Elective Courses

- Behavioural Science
- Research
- Economics

