



PRINCE  
ALFRED  
COLLEGE



# Elective Subjects

Year 10

Year 10 subjects continue to create a broad base of knowledge that consolidates past learning, and prepares students for future studies. As well as the compulsory subjects, students select electives that begin to shape the studies of their final years at the College. Students are encouraged to select electives that cater for their strengths and interests, but also to be ambitious and ready for challenge.

The Year 10 subject pattern places value on academic rigour, intellectual and cultural appreciation, and mastery within individual disciplines. All students will complete compulsory study in English, History, Mathematics, Science, and Exploring Identities and Futures (EIF). Students will then select three full-year elective subjects across the remaining areas of the Creative Arts, Design & Technology, Health & Physical Education, Humanities and Social Sciences, and Languages.

Any enquiries should be directed to:

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## Year 10

### Subject pattern

Full year subjects

Mathematics	English	Science	History	EIF	Elective 1	Elective 2	Elective 3
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### Elective Options

#### The Arts

- Drama
- Film & Media Studies
- Music
- Visual Art

#### Design & Technology - *Maximum of two subjects may be chosen*

- Architecture & Graphic Design
- Materials (Wood & Metal) OR Gateway to Trade (VET)
- Product Engineering (CAD & CAM)
- Systems & Coding (Coding & Automation)

#### Health & Physical Education - *Maximum of one subject may be chosen*

- Outdoor Education
- Sports Science

#### Humanities and Social Sciences

- Economics and Financial Systems
- Geography
- Philosophy

#### Languages - *Maximum of one subject may be chosen*

- Chinese A (Literature Studies)
- Chinese
- French
- Italian

## Elective Course Descriptions

### The Arts

#### Drama

This course aims to deepen students' understanding of theatre, introducing them to a wider range of genres and practitioners, and offering further performance opportunities.

#### Film & Media Studies

The course aims to give students an 'industry style' experience of film and television production and enable students to experience all aspects of the production process. Students will engage both in a creative and design-based production process.

#### Music

The course aims to continue the development of students' music theory, aural and composition abilities, their solo and ensemble performance skills, and their understanding of music in various historical contexts. They will also be introduced to more advanced arranging and composition techniques, in preparation for further study.

#### Visual Art

The course aims to enable students to develop technical skills in studio practice, including drawing, painting, printmaking, photography and ceramics. Students draw inspiration from artworks and artists from a diverse range of historical, cultural and contemporary contexts to critically analyse the ways that artists respond visually to the world around them.

### Design & Technology

*Maximum of two subjects may be chosen*

#### Architecture & Graphic Design

This is a creativity-based subject, introducing students to the various design disciplines within architecture and graphic design. The course explores the principles and practices involved in solving visual problems in both 3 dimensional and 2 dimensional forms.

#### Materials (Wood & Metal) OR Gateway to Trade (VET)

Materials (Wood & Metal) relates to the fields of furniture design and construction, welding and fabrication techniques relevant to manufacturing, industrial design, interior architecture and engineering.

Gateway to Trade is preparation for Year 10 students contemplating future studies in a variety of trade related areas. This course assists students to achieve VET Readiness (VETRO) requirements, by supplying a certificate of participation, crucial to enrolment in Certificate II trade related courses in Year 11. Trades covered are construction, plumbing, electrical (data), fitting and turning, and welding and fabrication.

#### Product Engineering (CAD & CAM)

Through practical, project-based work utilizing the complete Product Design Cycle, students aim to develop an understanding of the processes involved in the design, engineering and production of consumer products and the manufacturing of them. Students will learn explicit skills using Autodesk Inventor software, 3D printers, laser cutters and CNC milling machinery.

#### Systems & Coding (Coding & Automation)

Students will use coding and hardware to gain an understanding of controlling systems in real world contexts. Project based practical work will challenge students to generate complex and well-resolved prototypes to solve engineering challenges, using Arduino microcontrollers and software.

## Health & Physical Education

*Maximum of one subject may be chosen*

### Outdoor Education

This course aims to enable students to develop an appreciation and understanding of being physically active in adventure-based activities, and the motivation to make healthy life choices. This course will include two three-day expeditions where theoretical classroom concepts are used in a practical setting.

### Sports Science

Students will develop an understanding of why physical activity and healthy lifestyle choices are important, while exploring a range of contemporary sport science concepts. The course offers a balance of both theoretical and practical components.

## Humanities and Social Sciences

### Economics and Financial Systems

Students will develop an understanding of demand, supply, and market theory. Students will apply these concepts across a range of contexts, including goods and services markets, as well as share markets and property markets. The course also incorporates core financial literacy skills to help students make informed financial decisions.

Students will learn how key macroeconomic indicators such as economic growth, inflation, and unemployment are measured, and how these data inform economic policy. Students will also explore how individuals and businesses respond to opportunities through entrepreneurship, including decision-making under risk and the creation of value in different market environments.

### Global Futures

Students will investigate pivotal modern global issues and analyse their solutions. Through combining information from political, economic and environmental sources, they will evaluate the role of key stakeholders and world leaders in decision-making processes. This course develops student's critical thinking skills and grows their capacity to act as global citizens.

### Philosophy

The course presents wider contexts of religion, politics and ethics in which students' lives are implicated, and which are so central to the issues they encounter. By means of these inquiries, we will seek to develop and refine student's capacities for philosophical investigation and analysis.

## Languages

*Maximum of one subject may be chosen*

### Chinese A (Literature Studies)

To further develop students' competence and confidence in spoken and written Chinese. This is for students whose first/heritage/strongest language is Chinese.

### Chinese

### French

### Italian

These courses are for students that have prior study in the language of choice.

Chinese, French, and Italian courses help students gain competence in the language for study and leisure in a range of contexts. Students study a variety of themes and concepts with a focus on oral, visual and written literacies, to enable them to continue their language study in the IB/SACE programmes. Students will develop respect for, and understanding of, linguistic and cultural heritages