



Faith Lutheran College, Redlands

# Elective Options

YEAR 10  
2020



# Faith Lutheran College, Redlands

*Faith in Christ ... prepared for life.*

## Faith Values

*Love, Justice, Compassion, Forgiveness,*

*Service, Humility, Hope, Quality, Appreciation, Courage*

# Our Aims

Faith Lutheran College, Redlands, aims to provide quality education in which the Gospel of Jesus Christ informs all learning and teaching, all human relationships and all activities.

The College's Mission is to provide quality-learning opportunities while nurturing the development of all students in a Christ-centred community.

To support this Mission the School aims to:

- provide for each child instruction in God's Word and its place in our lives;
- provide a setting where children can respond to God's Word through worship and the development of Christian values, attitudes and relationships;
- provide for each child a wide range of experiences and activities which will stimulate interest in, and desire for learning;
- provide an atmosphere where each child is encouraged to recognise and develop their individual God-given talents as best as possible;
- give each child quality instruction in learning areas across the curriculum as a foundation for future learning;
- stimulate interest in, and to provide opportunities for, growth in creative and cultural pursuits;
- provide opportunity for the total mental, physical, emotional, social and spiritual growth of each child in a single setting;
- command an atmosphere in which learning is valued, excellence is encouraged and honest effort is recognised and praised regardless of academic capabilities;
- provide each child with an integrated vision and understanding of the whole of creation and all of life under the Lordship of Christ.

Central to the College's Mission and Ministry, Faith seeks to nurture students to be guided by core values and reflect the characteristics of God – especially: love, justice, compassion, forgiveness, service, humility, hope, quality, appreciation and courage.

The College also seeks to foster in students a desire to serve their communities by being:

- self-directed, insightful investigators and learners
- discerning, resourceful problem solvers and implementers
- adept, creative producers and contributors
- open, responsive communicators and facilitators
- principled, resilient leaders and collaborators
- caring, steadfast supporters and advocates

Faith Lutheran College, Redlands sees each student as unique and offers an education program that will allow each student to develop their God-given abilities.

# Our Belief

Our educational philosophy revolves around the belief that every child has the right to reach his or her optimum levels of functioning and performance in terms of the intellectual, physical, social, emotional and spiritual dimensions of life and, that these attainments, skills and attitudes be used in developing and strengthening positive relationships with others in society.

Students are regarded as unique individuals who have specific needs. The school therefore aims to cater for the needs of students along the entire spectrum of learning ability.

# Selecting Your Electives

In Year 10 students are preparing to choose their pathway for Year 11 and 12. The curriculum at Faith Lutheran College, Redlands, has been designed to provide students with the opportunity to sample a variety of units that are a semester in length.

Students will complete 10 units from the options which follow. In addition to their elective choices students will study English, Mathematics, Christian Studies and HPE.

For students wishing to begin a Vocational Education and Training (VET) pathway in Year 10 there are several options available. It is encouraged that students wishing to learn more about the VET options contact Mrs Julene Lander [Julene.Lander@flcr.qld.edu.au](mailto:Julene.Lander@flcr.qld.edu.au).



# ELECTIVE OPTIONS

## SCIENCE

### A Push, A Pull, A Spark and A Bang (Physics)

Students will be best prepared for studying Physics in Year 11 by choosing this semester course. In Term One students will expand on their knowledge of forces, motion and energy, particularly as they relate to real-world applications. The topic of electricity will also be revisited. A focus will be placed on conducting experiments and computer simulations to verify and consolidate theory. This will include experiments with crash carts, projectile motion apparatus and electric circuits. Term Two will see investigations into the wonders of the universe, the big bang, time and other physics-related concepts.

### Magic, Alchemy and Chemistry (Chemistry)

Students will be best prepared for studying Chemistry in Year 11 by choosing this semester course. In Term One students have the opportunity to research, design and plan their own Chemistry Magic Show, which is presented to a primary school class. In doing this the fundamentals and nature of chemical reactions are studied as well as learning how to assess the risk of chemicals. In Term Two students learn some vital chemical techniques and understand how the nature of matter in atoms and their arrangement has helped unlock the secrets of chemistry over time.....

### Fearfully and Wonderfully Made (Biology)

Cells are the fundamental building blocks from which all living things are constructed. But what is the structure of a cell? Students explore the basic structure of plant and animal cells, and consider the highly specialised structures that allow single-celled organisms to carry out all of the functions of life. The ways in which many cells are structured and specialised to work together as tissues, organs and body systems is explored, and students prepare an interactive presentation on one of the systems of the body, to create a "walk through" model/presentation of the human body.



### It's a Jurassic World – What are the Real Benefits and Dangers of Genetics and Bio-technology? (Biology)

One of the fastest growing industries in Science. Learn about the genetic code and how it paints the picture of the natural world. Understand how this rapidly changing, technology driven industry is changing how we view aspects of health, disease, evolution and our own futures.

### Magnificent Moreton Bay (Marine Science)

Year 10 Marine Biology is a practical Science subject that investigates a range of marine environments and explore the importance of protecting these environments. The subject will focus on a local marine environment and cover topics such as Marine Biology, environmental management, ocean issues and resource management.



## HUMANITIES AND COMMERCE MODERN HISTORY

An investigation into World War II. The rise of Hitler and the Nazi Party, the Kokoda campaign, weaponry advances, technology advances, political ideologies and post-war popular culture are some of the topics to be explored through research and film.

### Digging up the Past (Ancient History)

A study of archaeology and the ancient world. Power, conflict and arts will be explored in a variety of ancient civilizations.

## Cold Case (Legal Studies)

This course will explore the criminal mind and the elements and punishment of crimes. There will be a substantial focus on looking at cases involving crimes against a person.

## BUILDING A BUSINESS

STUDENTS WILL STUDY THE FOLLOWING UNITS:

### Who am I Targeting? (Term1)

This unit explores the factors that determine how a business markets itself. This will be applied to a case study and suitable marketing strategies will be developed.

### Building Success (Term2)

Ever wondered why our governments and large organisations choose to undertake the projects they do? This unit will explore what makes our country tick and the events we undertake to ensure we remain a competitive market.

## How to Make a Happier World (Geography)

This unit examines the different concepts and measures of human wellbeing, and the causes of global differences in these measures between countries. Students explore spatial differences in wellbeing within and between countries, and evaluate the differences from a variety of perspectives. They explore programs designed to reduce the gap between differences in wellbeing. These distinctive aspects of human wellbeing are investigated using studies drawn from Australia, India and across the world.

### Climate Change (Geography)

Major challenges to sustainability of environmental functions and an in-depth case study on a specific environment and its impacts (eg. Gold Coast and the effect of climate change on the city).

## TECHNOLOGIES DESIGN AND TECH STUDIES

STUDENTS WILL BE ABLE TO CHOOSE FROM:

### Solar Powered Speed Boats

Students will design the hull and deck shapes of their boats, vacuum form parts, install an electric motor drive shaft and propeller, and attach a solar panel. They will race to the finish in the state championships.

### Solar Powered Dream Machines

In this course students design a structure to support solar panel motor/s, design drive system-gears for a variable drive. They will have the opportunity to race to the max competing in the state championships.

## Pool Side Furniture (Furnishings)

In this elective students investigate and design suitable furniture for domestic pools. They machine and assemble components and spray finish to complement existing furnishings.

## Build Your Own Websites (Digital Solutions/ICT)

In preparation for the Year 11 and 12 General Digital Solutions and the Applied ICT course, students will learn to create professional looking, interactive and dynamic websites. Students will learn the fundamentals of HTML, CSS, JavaScript, PHP and SQL databases.



## Graphics for the Built Environment and Industrial Design

Students will be prepared for both the General Design course and the Applied Industrial Graphics course for Year 11 and 12. They will learn to model both their built environment and engineering ideas using industry standard Computer Assisted Design and Drafting software.

## What's on the Menu? (Hospitality)

This is an introduction to the Hospitality industry and workplace. Learn how to plan & prepare for a variety of functions and events. Practical work on food and beverage will have a strong focus in this unit.

## Fashion Design (Fashion)

Students will learn how to become inspiring young fashion designers who have been chosen to display their work at the Young Designers Market Stall in Brisbane. Students will design and produce textile items which will meet the design challenge of using one metre of denim for a unique and sustainable clothing, accessory or homeware item for your market stall. A Design Folio to document stages of the design process will be part of the unit as well. This Design Challenge will then be followed by another fashion project based on the classes interest.

# CREATIVE INDUSTRIES

## Visual Art

STUDENTS WILL STUDY THE FOLLOWING TWO UNITS:

### Pop Art (Term 1)

Creating exciting works inspired by popular culture such as films, objects and people. Use a variety of two dimensional and three dimensional art media. Explore photoshop to create designs.

### Design and Street Art (Term 2)

Using the design process and your imagination create a printed t-shirt using silk screen printing. Explore how colour and shape inspire art making. Create small scale works inspired by street art to be photographed on site.



## MUSIC

In Year 10 Music students will work individual programs based on their own musical interests and experience. They can craft activities and assessment based around improving Performance skills and techniques; exploring Composing using either notation software, Looping, Garage Band or live improvisation; and gaining insight into the aspects of theory which will support these practical goals. Students can work individually or in groups and their self-crafted assessment tasks can be marked according to agreed criteria and targets. This is a golden opportunity to balance the more “serious” side of an academic program through the development of your creative side.



# DRAMA AND MEDIA

This semester explores a combination of theatrical performance and film making to encounter the raw experience of what people are like. We will explore human nature as we create short films and other performance pieces that draw on themes such as vengeance, social justice, interdependence and fear. By the end of this course, you can expect to have: built up your confidence for communicating, have hands on film making experience, have shown others your solo and group projects and...um... why not...have become a \*Youtube celebrity. Also, in term 3 we will be going to participate in a film making workshop at Movie World and then enjoying the rides at the park. This course is not just for those who see themselves as actors as you will encounter technical hands on experience and can elect to prioritise this. The Youtube celebrity component is not guaranteed for all students.



## LANGUAGES

### Konnichiwa (Japanese)

This semester is a study of language exploration, vocabulary expansion and experimentation with different modes of communication; for example digital media, collaborative performance and group discussions. Learners become more confident in communicating in a wider range of contexts through language structures and vocabulary. They use Japanese to communicate and interact, to access and exchange information, to express feelings and opinions, to participate in imaginative and creative experiences, and to create, interpret and analyse a wider range of texts and experiences. Learners interact with peers, the teacher and other Japanese speakers in immediate and local contexts, and with wider communities and cultural resources. They may access additional cultural experiences through events such as school exchanges, festivals, inter-school events or cultural performances.

# HEALTH AND PHYSICAL EDUCATION

## Sports Excellence

An opportunity for students to learn and engage with training techniques, exercise physiology and skill development. Students will play a variety of sports, but the focus is around improving their overall performance.



## VOCATIONAL EDUCATION

### TAFE at School

TAFE and other providers run a series of Certificates that are free of charge under the government supported VETIS funding (this is for Certificate II qualifications only). These are often full year courses. Please see Julene Lander to discuss enrolment during Year 10.

### Health Hub

#### (Certificate II in Health Services)

Students undertake study in the onsite Health Hub. The Certificate II is undertaken in Year 10 and is designed to lead into a Certificate III in Individual Support Services. This course is a full year course and must be taken for the whole of Year 10.



### UAV Academy

#### (Unmanned Aerial Vehicle)

Students will be able to make their own vehicle (Drone) in this first stage and then in year 11 be able to learn how to fly the vehicle. On successful completion of making their vehicle, students will receive a Certificate II in Engineering, as well as 4 credit points towards their QCE. This is a full year course and must be taken for the whole of year 10.

For those interested, students will have the opportunity to learn how to fly their vehicles and complete a Certificate III in Navigation (Remove Pilot – Visual Line of Sight), a possible 6 credit points towards their QCE.



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