



Faith Lutheran College, Redlands

Elective Options

YEAR 10
2019



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 fully 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 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.



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.

Forensic Science – Crime Scene Investigation (Chemistry, Biology and Physics)

Study the science that is used to solve crimes. Complete case studies about how forensics has been used to solve crimes. Design and create a mock crime scene for Year 7 students to participate in and find out who did it!



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

Join Us in a Victory Job! (Modern History)

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

I Have a Dream (Modern History)

A cultural history of civil rights in Australia and America post WWII. The impact of civil rights on art, music, film, television and sport will be explored.

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.

Who Can I Sue? (Legal Studies)

This course will explore the area of civil law as it applies in both school and sport settings. High profile cases will be explored in discussions and debates about the outcome of cases.

Who am I Targeting? (Business)

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 (Business)

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.

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).

Global Flashpoints (Geography)

Investigating geographical reasons for global flashpoints, including reasons for conflict, population booms and refugee crisis before looking at the links to human development and well-being.

TECHNOLOGIES

Solar Powered Speed Boats (Design and Tech Studies)

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 (Design and Tech Studies)

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.

Designing for Our World (Design Technologies)

Students will be prepared for the Year 11 and 12 General Design course by learning sketching techniques essential to communicating design ideas. They will also engage with the elements and principles of good design and tried and true design methodologies.

Graphics for the Built Environment and Industrial Design (Design Technologies)

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.



Simple Machines and Computer Modelling (Design and Digital Technologies)

As an introduction to the three-dimensional skills required for the Year 11 and 12 General Design course and the Applied Industrial Graphics course, students will learn to model and animate mechanisms from simple linkages through to complex, multi-part machines.

Robot Command and Control (Digital Technologies)

Students will have the opportunity to engage in a range of robotic design projects which may include a robotic hand, electronics and wearable electronics. These will involve the use of development boards (eg Arduino) and electronic components connected in a circuit. Students will have the opportunity to utilise their creativity and innovation skills on these projects.

Scientific Computing (HPC) (Digital Technologies)

In preparation for the Year 11 and 12 General Digital Solutions course, students will engage with scientific computing. They will learn about supercomputers (High-Performance Computers - HPC), visualisation of data and modelling of processes using parallel programming techniques.



Build Your Own Websites (Digital Solutions)

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.

Object-Oriented Programming (Digital Solutions)

In preparation for the Year 11 and 12 General Digital Solutions course, students will learn programming within the Object-Oriented paradigm. Object-Oriented programming (OOP) allows the software engineer to model situations and processes in real world within their programs. This makes for intuitive and easy-to-use 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.



Eat Well, Live Well (Food and Nutrition)

This course will equip students to make responsible food choices and prepare meals that are tasty and delicious.

Fashion Design (Fashion)

Learn how to adjust commercial patterns and create your own clothing designs that suit your style. This will include portfolio work, fashion sketching and sewing construction techniques.



CREATIVE INDUSTRIES

Art Now (Visual Art)

Creating exciting contemporary works that focus on a variety of digital and traditional art making practices including land art, collaborative sculpture, painting, mixed media and drawing.

Australian Landscapes (Visual Art)

Exploring the landscape to create paintings on canvas that explore traditional and contemporary approaches to nature.

Putting it Together - The Speaker Project (Music)

The building of a pair of high end speakers completed from raw components to finished product. This project includes Tech and Design, ICT and Art crossover.

Listening to the Waves (Music)

Using the speakers created in Semester 1, students engage in a listening project including music from a wide range of sources. They are encouraged to observe subtle differences in composition, performance and recording.

Gospel Drama (Drama)

This course prioritises collaborative play building. Students work together to create and perform scripted and unscripted plays and gospel inspired pieces that will be presented at the Junior and the Secondary Campus.

Masks, Clowning and Movement (Drama)

This course equips students to build a repertoire of unique and engaging characters. The process involves learning to develop stylised movement and routines stemming from Swiss, Italian and American traditions. Student will create endearing characters that engage with comic routines and scripts.

Lights, Camera, Action (Film, TV and New Media)

An introductory unit to Film, TV and New Media. Students will investigate different mediums, analyse them and produce their own media.

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

Health Hub (Certificate II in Health Services)

Students undertake study in the onsite Health Hub. The Certificate II in Health Services 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.

TAFE at School

TAFE and other providers run a series of Certificates that are free of charge under the government supported VETIS funding. These are often full year courses. Click [here](#) for more details.





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