What we Offer

At Craigslea SHS, we offer a range of science subjects to study in the senior phase of learning, including both General and Applied subjects.

We offer:

General Science Subjects

- Biology
- Chemistry
- Physics
- Psychology

Applied Subjects

- Science in Practice

In all of the science courses, students will learn a range of skills including critical thinking, experimentation, problem solving and research.

They will develop their sense of wonder and curiosity about life, the contribution science makes to society and understanding diverse phenomena, respect for the environment, as well as an appreciation of how knowledge has developed over time and continues to develop.

They also develop critical evaluation skills, expertise in conducting scientific investigations and an ability to generate informed, responsible and ethical conclusions.

For more Information

Ms Deanne Plaza

Acting Head of Department
Science
Craigslea State High School

Let's Connect

Phone
(07) 3326 5222

Email
admin@craigsleashs.eq.edu.au

Attn:
Acting HOD Science

Department of Education
Trading as Education Queensland International (EQI)
CRICOS Provider Number 00608A

Senior Science

Craigslea
State High School

Biology

Biology provides opportunities for students to develop their understanding of cells, multicellular organisms, biodiversity and the interconnectedness of life.

They also study heredity, homeostasis, infectious diseases and ecology. Students will plan and carry out fieldwork, laboratory and research investigations, as well as communicate findings, arguments and conclusions.

A course in Biology can establish a basis for future education and employment in the fields of medicine, forensics, veterinary science, food and marine sciences, agriculture, biotechnology, conservation and sustainability.

Chemistry

Chemistry is the study of materials and their properties and structure.

In Chemistry, students study atomic theory, the structure and properties of elements and compounds, as well as chemical bonding, intermolecular forces, gases, aqueous solutions, acidity and rates of reaction.

In addition to this, they will study equilibrium processes, redox reactions and various aspects of organic chemistry.

A course of study in Chemistry establishes a basis for future education and employment in the fields of forensics, environmental science, engineering, medicine, pharmacy and sports science.

Science in Practice

Science in Practice provides an opportunity for students to learn through a contextual interdisciplinary approach that includes aspects of Biology, Chemistry, Earth and Environmental Science and Physics.

Students are encouraged to develop critical thinking skills and a way of interacting with the world that engages the practical approaches to scientific inquiry. Key elements of the course include planning investigations, engaging in experiments and developing problem solving skills.

Science in Practice is inclusive and caters for a wide range of students with a variety of backgrounds, interests and career aspirations. It can establish a basis for further education and employment across a number of fields, such as food technology, forensics, recreation and tourism and the resources sector.

Physics

Physics provides opportunities for students to engage with classical and modern understandings of the universe.

Students will learn about the fundamental concepts of thermodynamics, electricity, nuclear processes, linear motion and waves. They also engage with the concept of gravitational and electromagnetic fields, forces and modern theories and models that are fundamental to our understanding of observable phenomena.

A course of study in Physics can establish a basis for future education and employment in the fields of engineering, medicine, technology and scientific research.

Psychology

Psychology provides opportunities for students to engage with concepts that explain behaviour and underlying cognitions.

Students will examine the role of the brain, cognitive development, human consciousness and sleep. They will also investigate intelligence, the process of diagnosis and how to classify psychological disorders and identify effective treatments.

Students will also examine individual thinking, visual perception, memory and learning. Additionally, students will consider the influence of others on social situations, interpersonal processes, attitudes and cultural perspectives.

A course of study in Psychology can establish a basis for future education and employment in the fields of psychology, sales, human resourcing, social work, health, law, business, marketing and education.