Biology

Description

Students undertake a course that provides an opportunity to develop an understanding of important concepts in Biology. The core of study will be around the areas of cellular structure and function, genetics and evolution. Students will be expected to learn the theory behind these areas in order that they have a high level of scientific literacy and are adequately prepared for future VCE studies. Students will also have the opportunity to participate in practical work.

Unit Topics

Energy for life
- *cellular function and structure – patterns of inheritance*
- *meiosis & genetics*

Evolution
- *evidence and examples (including human ancestry)*
- *optional biological topics will be undertaken as time permits.*

Skill Development

- *Problem solving*
- *Analyse and evaluate data, methods and scientific models*
- *Plan and undertake investigations*
- *Ethical capabilities*
- *Communicate and explain scientific ideas*
- *Conduct investigations to collect and record data*

Possible Assessment Tasks

- *Bioinformatics response*
- *Research reports*
- *Models*
- *Presentations*
- *Dissections*
- *Practical investigations*

Activities/Camps/Excursions

Opportunity to visit GTAC (Genetic Technology Access Centre) and practical investigations.

Career Options

Biology leads to a wide range of careers including (but not limited to) medical field, agriculture, forensic science, bio technology, gene technology, geology, zoology, food technology, microbiology, conservation scientist, nutritionist, education, genetic counsellor, research.