

# VCE Biology

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**Seymour**  
College

# Biology – The Study of Living Things

- What makes something 'alive'?
- What makes groups of living things similar and different?
- What is required to sustain life?
- How has life changed over time?
- How is biotechnology affecting society, now and in the future?



# Course Overview

## Unit 1 – How do living things stay alive?

*Cell theory, body systems, biodiversity & ecology*

## Unit 2 – How is life maintained?

*Cell cycles, reproduction, inheritance + **research project***

## Unit 3 – How do cells maintain life?

*Cellular processes, cell signaling, immune systems*

## Unit 4 – How does life change and respond to challenges over time?

*Population genetics, natural selection, biotechnology + **practical investigation***



## Pathways

- Biological Research – zoology, botany, pharmacology, microbiology, genetics.
- Health Sciences – nursing & midwifery, medicine, pharmacy, allied health.
- Genetic Counselling.
- Education
- Veterinary Science
- Equine industry
- Science Journalism
- Marine biology
- Ecologist/Environmental Science
- Agriculture

## Sound good?

- Biology is difficult but rewarding
- To succeed in this subject you will need to:
  - Work hard.
  - Read (a lot).
  - Complete independent study.
  - Participate in class discussions & practical activities.
- Come and talk to Ms Ward or Mr Jimenez for more information about this amazing field of Science!