



Highfields State  
Secondary College

# Semester 1 Course Overview

**Faculty:** Science  
**Subject:** Agricultural Science  
**Year level:** 9

## Course Outline

Agricultural Science aims to develop students':

- interest in Agricultural Science and their appreciation of how interdisciplinary knowledge can be used to understand contemporary issues in food and fibre production
- ability to conduct a variety of field, research and laboratory investigations involving collection and analysis of qualitative and quantitative data, and interpretation of evidence
- ability to critically evaluate agricultural science concepts, interpretations, claims and conclusions, with reference to evidence

Student will be assessed in the following criteria:

1. Knowledge
2. Planning and Research
3. Analysis of Evidence
4. Interpretation and evaluation
5. Communication

Semester 1	
Unit: Animal Science – Poultry	Unit: Plant Science – Broadacre cropping
<p>In this unit students will conduct an experiment to analyse and consider the effectiveness of different types of nutrition on poultry. Students will begin to develop an understanding of poultry digestion, basic animal handling, animal health and welfare, management practices, as well as new innovations within the poultry industries.</p> <p>Students will be required to identify a range of breeds and recognise the adaptive physical features of poultry related to their commercial use. Identify and describe the main anatomy of a chicken. Describe and explain breeding systems such as incubators vs naturally breeding. Define and describe factors that influence animal production such as diseases and management practices.</p>	<p>In this unit students will begin to develop an understanding of broadacre cropping. Students will begin to understand the commercial value of broadacre cropping to the national and international markets for Australia.</p> <p>Students will be required to identify a range of crops that are grown in Australia, in particular winter crops grown on the Darling Downs. Label the anatomy of plants, recall and remember plant physiology. Explain control methods for common pests and diseases in plant production. Evaluate plant nutritional requirements. Execute plant husbandry tasks such as weeding, fertilising, watering.</p>
Assessment	Assessment
<p>Students will conduct a student experiment involving the monitoring, management, feeding and recording of a poultry.</p>	<p>Students will complete a research investigation on cropping.</p>