



Senior Agricultural Science



Overview

Agricultural Science provides opportunities for students to explore agricultural concepts and systems and to investigate agricultural issues and problems. They engage with the agricultural industry through the integration of three areas of study: plant science, animal science and agribusiness. Sustainable resource management underpins the course of study as students consider factors impacting on agricultural production systems.

Students conduct practical and research-based agricultural investigations. They formulate questions, hypotheses and plans for agricultural investigations to collect, organise and analyse agricultural information. By comparing research results and agricultural industry standards, students simulate the work of agricultural scientists, managers and producers who attempt to meet and exceed industry standards.

Agricultural Science is an academic Authority subject and counts toward a student's OP. Although it is an advantage, studying Agricultural Science in years 8, 9 and 10 is not a pre-requisite for studying senior Agricultural Science.

Students interested in skills based agricultural studies should choose the vocational subjects and in particular, our signature Agricultural Futures program.



Topics studied

Anatomy and physiology	A study of the anatomy and physiology of plants and animals, nutrition and the diseases that affect these organisms. Technological advancements in plant and animal nutrition are considered.
Plant production: winter crop	An inquiry-based unit in which students are involved in a plant nutrition trial, investigating deficiencies and associated symptoms. Students also aim to produce top quality, cost-effective winter crop with ideal nutrient levels.
Animal production: beef	An inquiry based unit based on nutrition and reproductive requirements, students investigate the variables that affect beef production. Students undertake a cost analysis to determine the factors of animal production.
Farm Planning	An inquiry based unit based on developing a plan of the 340 ha Bunya Campus farm. Students will use the concepts learned over the previous three semesters as well as new concepts of planning and agribusiness to develop a plan that also considers modern land management techniques.

Study Pathways

