

SCHOLARSHIPS

The University of Tasmania offers national undergraduate scholarships in agricultural science as well as numerous industry-sponsored scholarships and bursaries. To find out more visit the University's website www.utas.edu.au, email the Scholarships Office at Tas.Scholarships@utas.edu.au or talk to your careers adviser.

FURTHER STUDY

The School of Agricultural Science has a proven record in attracting funding for research and has one of the largest groups of postgraduate students enrolled in PhD and masters programs at the University of Tasmania.

ENTRY REQUIREMENTS

University minimum entry requirements apply, including Chemistry CHM5C and Mathematics - Applied MAP5C. Chemistry and mathematics bridging units are offered during the summer semester.

FOR MORE INFORMATION

Full details of courses, including the three-year Bachelor of Applied Science (Agriculture), are published annually in the University of Tasmania *Course and Unit Handbook*. Go to the University's website www.utas.edu.au/handbooks

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Agricultural Science



FACULTY OF SCIENCE, ENGINEERING & TECHNOLOGY



School of
Agricultural Science
CRICOS Provider Code:00586B

The Faculty of Science, Engineering and Technology encourages applicants from all equity groups.

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UNIVERSITY OF TASMANIA

DID YOU KNOW
that the agricultural industry
is worth over \$900 million
to Tasmania's economy and
continues to grow?



AGRICULTURAL SCIENCE

Agricultural scientists play a pivotal role in the global society. Agriculture supplies the majority of the world's food and fibre needs, but maintaining or increasing production in the future depends on the development and implementation of sustainable agricultural practices. Producers require production systems that allow them to remain financially viable while maintaining or enhancing the environment and ensuring rural communities remain functional.

The four-year program in agricultural science at the University of Tasmania gives students a solid foundation in the physical and biological sciences, and specialisation in agricultural disciplines, needed to contribute to future sustainable agricultural systems.

CAREERS IN AGRICULTURE

Agricultural science graduates have excellent job prospects in science, biotechnology and research-oriented positions, as well as in primary industry, government and agribusiness. Examples of careers include:

- agronomist – conducts research and advises farmers to help improve crops, pastures and farming systems
- plant breeder – improves plant varieties, using the latest research in biotechnology
- animal scientist – beef, lamb, wool, dairy – investigates animal production, nutrition, genetics and behaviour
- natural resource manager – researches and promotes sustainable use of land and water
- soil scientist – involved in soil fertility management and land suitability assessment, including salinity management
- microbiologist – works in areas of environmental sustainability, infectious diseases of plants, animals and people, food processing and safety, and molecular biology/biotechnology
- horticulturalist – conducts research into production and development of vegetable, fruit and other high-value crops
- entomologist – studies the ecology and management of insects, including biological control

- plant pathologist – studies plant diseases and their management
- consultant – advises producers on many aspects of their agricultural business

WHAT MAKES US DISTINCTIVE?

- The School of Agricultural Science has strong links with the state's diverse and vibrant agricultural sector, providing students with the opportunity to interact with a wide range of agricultural and horticultural industries.
- The School hosts the Tasmanian Institute of Agricultural Research (TIAR), a joint venture between the University, State Government and Tasmania's agricultural industries. TIAR is a centre of excellence in cool temperate agricultural research, providing outstanding opportunities for research training as well as giving undergraduate students access to world-class researchers.
- The School hosts the Australian Food Safety Centre of Excellence – a leader in food microbial studies and biotechnology.
- The University of Tasmania is one of only a few universities in Australia that offers a four-year Bachelor of Agricultural Science degree program, the preferred entry qualification for many agricultural science jobs.

PRACTICAL COMPONENT

Practical work is undertaken during annual vacations, providing valuable experience on agricultural properties, in agribusiness and in research-related activities.

FACILITIES

The School of Agricultural Science, located on the Hobart campus, has modern teaching and research facilities. The University farm, in close proximity to Hobart, and a horticultural research centre provide excellent teaching and research facilities for the School.

COURSE STRUCTURE

Year 1 (covers general biological and physical sciences plus agricultural systems)

Introduction to Agriculture & Horticulture
Sustainable Resource Management
Biology of Plants
Biology of Animals
Chemistry
Data Handling & Statistics
Genetics & Cell Biology

Year 2

(covers key science disciplines and introduces agricultural disciplines)

Biochemistry
Organic Chemistry
Soil Science & Geology
Pasture & Animal Science
Field Agriculture
Microbiology & Mycology
Crop & Plant Physiology
Agricultural Technology

Years 3 and 4

Core units in:

Economics for Business
Crop Health Management
Research, Development & Extension Methods
Plant Nutrition & Soil Fertility

plus a choice of specialist units in:

Horticulture
Soil Science
Entomology
Plant Pathology
Animal Science
Microbiology
Agronomy

Students have the opportunity to undertake an honours degree in their fourth year.