

ENTRY REQUIREMENTS

There are no specific prerequisites to study first-year botany; however, minimum university entry requirements apply. At least two TCE subjects from Chemistry CHM5C, Mathematics MAP5C or MME5C, Biology BIO5C, Physics PHY5C, or Physical Sciences PSC5C are recommended. Students may also enrol after successfully completing the life sciences bridging unit offered during the summer semester.

FOR MORE INFORMATION

Full details of courses are published on the UTAS website www.utas.edu.au/courses

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Plant Science



FACULTY OF SCIENCE, ENGINEERING & TECHNOLOGY



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CRICOS Provider Code:00586B

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Photographic acknowledgements include Rob Wiltshire and School of Plant Science.

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

UNIVERSITY OF TASMANIA

DID YOU KNOW
that Tasmania has the tallest
hardwood trees in the world?



PLANT SCIENCE

Tasmania is an ideal place to study native vegetation and gain first-hand experience in wilderness areas. The School of Plant Science at the University of Tasmania has international recognition for teaching and research in physiological and forest genetics, evolution and ecology of the Australian flora and introduced marine pests, facilitated by outstanding molecular and plant growth facilities.

CAREERS IN PLANT SCIENCE

Career options are diverse. Our undergraduate and postgraduate students are equipped for careers in:

- management of natural environments and wilderness areas
- sustainable management of forestry resources or the marine environment
- research and teaching

Plant science graduates are employed in:

- forestry
- horticulture
- aquaculture
- marine and freshwater industries
- Parks and Wildlife Service
- botanical gardens and herbaria
- government departments of primary industry and environment
- teaching
- research environments in universities, CSIRO and the biotechnology industry in Australia and overseas

WHAT MAKES US DISTINCTIVE?

- The School is close to diverse vegetation types from cool temperate rainforest to open eucalypt woodland and button grass moorland.
- We have the best controlled-environment glasshouse facilities in Australia.
- We have a unique culture collection of 'red tide' microalgae.
- The School is world-renowned for its genetics research with application to eucalypt breeding and environmental sustainability.

COURSE CONTENT

The following is a general guide to completing a Bachelor of Science with a major in plant science.

Year 1

First-year botany consists of Biology of Plants (12.5%) and Cell Biology, Genetics & Evolution (12.5%). These units cover plant structure, physiology, history of Australian flora, inter-relationships of the major plant groups, genetics and ecology.

Plus three other (3 x 25%) core science subjects at first-year level.

Year 2

Second-year botany consists of Plants in Action (12.5%) and Genetics & Evolution (12.5%). These units explore how plants respond to the environment and looks at plant evolution at the molecular, morphological and physiological levels – the basis for plant classification.

Ecology of Tasmania (12.5%) explores the ecological patterns and processes shaping the vegetation of Tasmania and is highly recommended.

The balance of second-year units should comprise at least 50% science units including a second science core subject (25%).

Year 3

For a major in plant science, four of the following eight units (each worth 12.5%) should be completed:

- Plant Biodiversity
- Aquatic Botany
- Cell Biology
- Field Botany
- Genetics
- Molecular Evolution
- Plant Science Research
- Plant Ecology

Year 4

Students may continue on to a fourth (honours) year. During this year, students conduct a well-defined research project with supervision. Several scholarships are available for students undertaking an honours year.

SPECIALIST COURSES

The School of Plant Science cooperates with other schools to offer three cross-discipline specialist courses – Marine Science, Biotechnology, and Forest Ecology.

FURTHER STUDY

The School of Plant Science has an excellent and widely recognised record in research in aquatic botany, global change impacts, genetics and forestry. Students who successfully complete honours may proceed to either a Master of Science or a Doctor of Philosophy.