FURTHER STUDY

Students interested in doing further study have a range of degrees to choose from, including the Graduate Certificate in Marine Science and the Graduate Diploma in Marine Science. For suitably qualified graduates there are opportunities to undertake research higher degrees at masters and doctoral level including the joint UTAS-CSIRO PhD program in quantitative marine science. For more information visit the Centre for Marine Science website at www.utas.edu.au/cms

ENTRY REQUIREMENTS

Biological Science Stream: CHM5C Chemistry 5C

Physical Science Stream: MME5C Mathematical Methods 5C, PHY5C Physics 5C and CHM5C Chemistry 5C

These prerequisites can also be met by completion of appropriate foundation units provided by the University of Tasmania, namely KMA003 Mathematical Foundation Unit, KRA001 Chemistry Foundation Unit or KYA004 Physics Foundation Unit.

Photographic acknowledgements include Hugh Pederson, Richard Coleman and the CSIRO Marine and Atmospheric Research

FOR MORE INFORMATION

Full course details of the Bachelor of Marine Science and Bachelor of Marine Science (Hons) are available on the website

www.utas.edu.au/courses/K3B

www.utas.edu.au/courses/K4B

OR CONTACT

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UTAS
FACULTY OF SCIENCE, ENGINEERING & TECHNOLOGY

CRICOS Provider Code:00586B

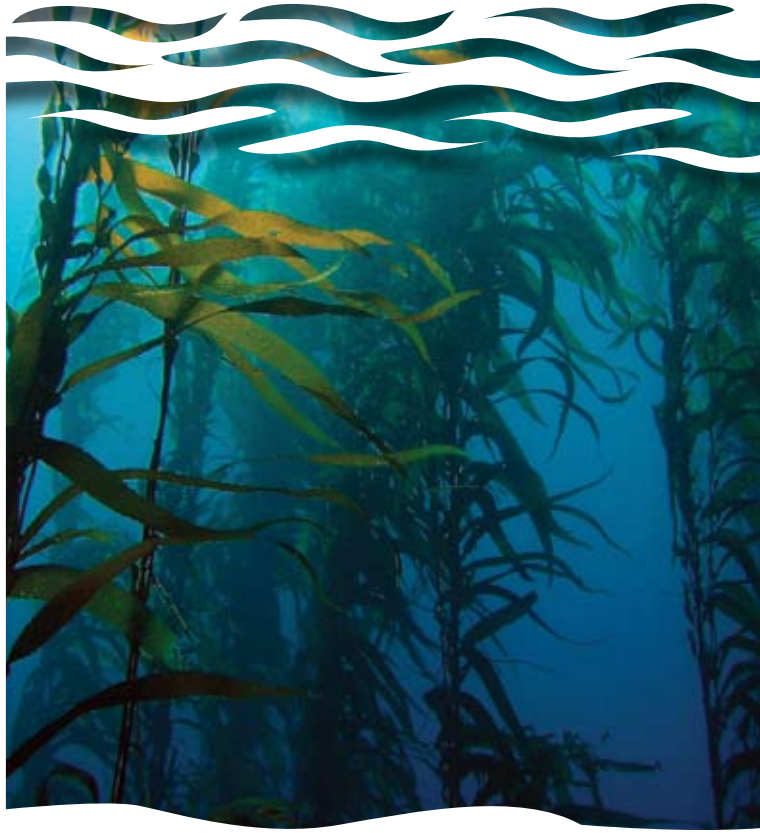
The Faculty of Science, Engineering and Technology encourages applicants from all equity groups.

1396u January 2007

Marine Science

UTAS

FACULTY OF SCIENCE, ENGINEERING & TECHNOLOGY



UNIVERSITY OF TASMANIA

DID YOU KNOW
that Hobart has the largest concentration of marine scientists in the Southern Hemisphere?

MARINE SCIENCE

WHAT IS MARINE SCIENCE?

The Bachelor of Marine Science aims to provide students with knowledge, competencies, skills and awareness of a broad range of subjects linked together by the common theme of marine science. This rich and diverse discipline encourages an interdisciplinary approach to biology, chemistry, physics, geology, oceanography, mathematics and social sciences.

CAREERS IN MARINE SCIENCE

Marine scientists work within government and private industry in many exciting areas: aquaculture; chemical, physical and biological oceanography; climate change modelling; environmental consulting; fisheries; geography; geoscience; mathematics; statistics and computing; microbiology; ocean technology; remote sensing; marine conservation; education; engineering; and technical careers.

WHAT MAKES US DISTINCTIVE?

We provide more opportunities for underwater marine research than any other Australian university. UTAS, CSIRO, the Australian Antarctic Division, the National Oceans Office and various State Government departments in Hobart constitute the largest concentration of marine scientists in the Southern Hemisphere. Tasmania has a wide range of aquatic habitats (including deep diving sites) in close proximity to the University's Hobart campus.

MULTI-DISCIPLINARY

The program is taught across numerous schools in the Faculty of Science, Engineering and Technology. Staff from the Marine Research Laboratories (TAFI), CSIRO Marine and Atmospheric Research and the Australian Antarctic Division will also contribute towards the teaching of the course.

TWO DEGREE STREAMS

Biological Science Stream provides a rigorous education in plant science and zoology with a focus on the biology and ecology of marine organisms, such as algae, invertebrates, fish and mammals, and their dynamics in marine ecosystems.

Physical Science Stream provides a solid foundation in the physical sciences (mathematics, physics, earth sciences) allowing students to specialise in a range of sub-disciplines, including physical oceanography, chemical oceanography or marine geosciences.

FOUR SPECIALISATIONS

By selecting particular combinations of electives, students can specialise in chemical oceanography, physical oceanography, marine and freshwater ecology, or fisheries science. For more information and subject guides visit the website: www.utas.edu.au/cms/undergrad_courses/index.html

COURSE STRUCTURE

Biological Science Stream

Year 1

Biology of plants, cell biology, genetics and evolution, biology of animals, ecology, chemistry 1A & 1B and two elective units

Year 2

Animal evolution and ecology, functional biology of animals, plants genetics and molecular biology, introduction to geography information systems and four elective units

Year 3

Aquatic botany, Antarctic ecology, marine ecology, freshwater ecology and two elective units

Physical Science Stream

Year 1

Calculus and applications 1A & 1B, chemistry 1A & 1B, physics 1A & 1B and two elective units

Year 2

Environmental chemistry, calculus and applications 2, differential equations, linear algebra & applications, introduction to oceanography and four elective units

Year 3

Advanced oceanography, data analysis for physical sciences, computational techniques 3, partial differential equations, applications and methods and four elective units

Year 4 (Honours) full-time or part-time

Students who gain at least a credit average in their third-year units may proceed to a fourth (honours) year. Bachelor of Marine Science (Hons) graduates hold a significant advantage in the employment market over students who exit with a Bachelor of Marine Science.