UNIVERSITY OF TECHNOLOGY SYDNEY

UTS: SCIENCE & INTERNATIONAL STUDIES

BACHELOR OF SCIENCE, BACHELOR OF ARTS in International Studies UAI 2007 – 74.10

WHY SCIENCE & INTERNATIONAL STUDIES?

The aim of this combined degree program is to produce specialist science graduates who are ready for professional scientific careers either in Australia or internationally.

WHAT WILL I LEARN?

This course combines the Bachelor of Science (your chosen major) with the Bachelor of Arts in International Studies. This program is flexible and practical. In addition to your Science major studies you also immerse yourself in another language and culture thus enhancing your professional training and career choices. Students are required to complete 144 credit points of Science subjects and 96 credit points of International Studies. In the Science component, you have a wide range of science majors (shown below) to choose from to match your interest and career path.

SCIENCE MAJORS

- Applied Chemistry
- Applied Physics
- Nanotechnology
- Mathematics
- Statistics
- Biomedical Science
- Medical Science
- Biotechnology
- Environmental Biology
- Urban Ecology
- Marine Biology
- Environmental Forensics

In the International Studies component, students are required to study a major from the list below. They will learn their chosen country's language and culture in Sydney for 2 years, followed by a year of overseas study in their chosen country.

INTERNATIONAL STUDIES MAJORS

- Canada
- Chile
- China
- France
- Germany
- Indonesia
- Italy
- Japan
- Latino USA
- Malaysia
- Mexico
- Spain
- Switzerland

Students with significant prior knowledge and exposure of a particular language and culture will be permitted to continue their study in the **HERITAGE MAJORS**, which are Croatia, Greece, Hong Kong, Korea, Poland, Russia, Taiwan, Philippines and Vietnam.

This program is extremely innovative and will enrich you with life experience as you will travel and live in another country; learnt about its culture and language while at the same time gained your professional qualification. Graduates will receive two testamurs upon successful completion of the program.

CAREER OPTIONS

Graduates will find employment opportunities in various industries: as a communication specialist, product development specialist, technical specialist, marketer, statistician, business analyst, mathematical modeller, medical laboratory scientist, biotechnologist, materials analyst, energy technologist, environmental protection officer, environmental consultant, exploration geologist, coastal management expert, marine scientist, research scientist, etc. Depending on the science majors chosen, graduates could find themselves working in very diverse industries, e.g. commodity and resource trading, pharmaceutical, consumer goods, medical research, health services and management, hospitals, research organizations and environmental protection agencies just to name a few.

FULL TIME PROGRAM

YEAR 1

AUTUMN SEMESTER

Science Foundation Subjects	24cp

SPRING SEMESTER

Science Foundation Subjects	24cp

YEAR 2

AUTUMN SEMESTER

Science Major subjects	12cp
Language and Culture 1	8cp
Comparative Social Change	8cp

SPRING SEMESTER

Science Major subjects	12cp
Language and Culture 2	8cp

YEAR 3

AUTUMN SEMESTER

Science Major subjects	12-18cp
Language and Culture 3	8cp

SPRING SEMESTER

Science Major subjects	6-12cp
Language and Culture 4	8cp
Contemporary Society	8cp

YEAR 4

AUTUMN SEMESTER

In-country Study 1	24cp

SPRING SEMESTER

In-country Study 2	24cp

YEAR 5

AUTUMN SEMESTER

Science Major subjects	24cp

SPRING SEMESTER

Science Major subjects	24cp

COURSE CODES

UTS course code: C10243
UAC code: 609250
Duration: 5 years Full-Time
Location: City campus

Assumed Knowledge: 2 units HSC Mathematics, English and at least one HSC Science subject. There is no prior language requirement except for Heritage majors.

NEED TO KNOW MORE??

Course Director
A/Prof Kenneth Brown
Faculty of Science
Phone (02) 9514 4042
Fax (02) 9514 4079
Email: Kenneth.Brown@uts.edu.au

For enquiry relating to the International Studies component, please contact the Institute for International Studies at (02) 9514 1574

UTS CRICOS Code: F00099F
Updated 23 August 2007

UNIVERSITY OF TECHNOLOGY SYDNEY

UTS: SCIENCE

Innovative, relevant and practical - a fusion of theory and practical studies

Why UTS Science?

At UTS Science innovation is more than just an idea, it is applied in the development of courses, making science an experience. Our courses show how basic sciences like biology, physics, chemistry and mathematics connect with the quest for new vaccines, new gene therapy treatments, development of efficient photonics, more sensitive detection systems for environmental toxins and pathogens, and a host of exciting applications.

Students study science at UTS because they want courses with real world skills. Employers' value our graduates because they are work-ready, even before they graduate. Students can opt to take the Diploma in Scientific Practice in the second year of their degree, where they participate in industrial internship.

Studying Science at UTS also means having access to a new state-of-the-art laboratory facility in the city, the chance to network with a group of diverse researchers and the possibility to contribute to current research.

What do our past students say?

SAM MORGAN-KELLOW, graduated in 2007

Bachelor of Science in Urban Ecology

"I chose this area of study because I was keen on learning about the environment. I was interested in biology and other components of the course relating to building and design. The lecturers were very helpful and the practical components of the course were enjoyable. I was able to choose two very different elective areas in second and third year and got to see different ecosystems on my field trips.

My final year project on CBD tree canopies with the City of Sydney was fantastic because I felt it had a real practical application. I'd like to work for local councils in an Environmental Officer role and eventually work in government on policy."

OSTA CHANGALANGSY, graduated in 2006

Bachelor of Medical Science

"My job (as a Clinical Trials assistant) requires me to be highly organised so that I can manage the clinical trials efficiently. My job involves dealing with investigators, pharmaceutical companies. I also ensure patient demographics are correct, order the correct test for each patient as well as to make sure that the results are reported to the investigators. I am also responsible for overseas specimens dispatch for further testing. The subjects I studied at UTS gave me the confident on my very first day at work.

MARTIN BLABER, graduated in 2007

Bachelor of Science in Nanotechnology

"I was drawn to UTS because it was the pioneer in nanotechnology in Australia. Through the Institute for Nanoscale Technology I have access to two very large computing facilities. I would not have been able to do my work efficiently without access to these machines. I am also a big fan of the people here. They are very supportive and friendly. There is always someone willing to help.

What do employers say about UTS Science, its students and internship program?

MR JAMES MCLEOD,

CEO, Dominion Electronics

"We have taken on four UTS Science interns over the past two years. They did some really great research in imbedded electronics. They compiled the raw data and presented a market analysis report. The interns from UTS Science were very practical and fitted straight into our organisation."

MR ALAN LIDDLE

CEO, Immune System Therapeutics Ltd

"At Immune System Therapeutics, we have interfaced with and worked with UTS Science students for over five years. Students from UTS have strong, readily useable technical skills that allow them to be productive from day one. They have sound knowledge base that enables them to learn and master new technologies in a timely fashion."

What is the Diploma of Scientific Practice? Should you consider this option?

The UTS Diploma of Scientific Practice is yet another example of how studying science at UTS can give your career a kick start. Students have the option in the second or third year of their degree to participate in an industrial internship gaining practical experience and the opportunity to develop the skills, knowledge and attitudes needed to give them that extra edge in the marketplace. The possibility is there for employers to offer students employment as a result of these internships.

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