

UTS: SCIENCE

BACHELOR OF SCIENCE

WHY THE BACHELOR OF SCIENCE?

We have restructured our Bachelor of Science (BSc) to provide greater flexibility, allowing you to choose your major field of study after first year, when you have experienced a range of disciplines. You will have to choose your general area of interest by choosing one of three Foundation streams, namely Mathematical, Physical, or Life and Environmental Sciences in first year.

However at the end of first year you will have a range of possible major study areas to choose from (shown below) depending on which Foundation you chose. If you take a specified major you will graduate with an award identified by that major (shown below). However if you choose not to select a specific major, but instead select a range of second and third year subjects to tailor your study according to your interests you will graduate with a BSc award.

Foundation Stream	Award
Mathematical Sciences	Bachelor of Science in Mathematics Bachelor of Science in Statistics
Physical Sciences	Bachelor of Science in Applied Chemistry Bachelor of Science in Applied Physics Bachelor of Science in Nanotechnology
Life and Environmental Sciences	Bachelor of Science in Marine Biology Bachelor of Science in Environmental Forensics Bachelor of Science in Environmental Biology Bachelor of Science in Urban Ecology Bachelor of Science in Biotechnology Bachelor of Science in Biomedical Science Bachelor of Science in Medical Science

All study programs contain 24 credit points (typically 4 subjects) of free electives, which can be Science subjects or submajors in your area of science specialised study, or in a related science area (e.g. a Nanotechnology submajor in your Applied Physics degree). Alternatively, you could take subjects or a submajor from another faculty, for example a business or communication submajor.

HOW TO APPLY

If you think you know already which area you want to focus in you can select the UAC code for the relevant BSc major - you can still change your mind at the end of first year within the choices available from your foundation stream.

However if you are unclear of your preferred specialization you can select the code for the BSc (Flexible). Some major programs within the BSc are identical to those of separate named degrees (eg BSc in Medical Science and B Medical Science) however the entry cutoffs may be quite different and you may wish to consider preferencing both courses.

The entry cutoffs for different majors within the BSc may also be different and you may also wish to preference both the BSc (Flexible) and your preferred BSc specialization.

UAC Code	Course
607001	BSc (Flexible)
607003	BSc (Mathematics)
607003	BSc (Statistics)
607005	BSc (Chemistry)
607007	BSc (Nanotechnology)
607009	BSc (Physics)
607011	BSc (Environmental Biology)
607011	BSc (Environmental Forensics)
607011	BSc (Marine Biology)
607013	BSc (Urban Ecology)
607015	BSc (Biotechnology)
607015	BSc (Biomedical Science)
607015	BSc (Medical Science)

What you will learn and your career options will depend on the major or subject choices you make. An outline of one of the major programs are provided overpage.

HONOURS

The Bachelor of Science (Honours) is available to eligible students with an additional one year of full time study.

DIPLOMA IN SCIENTIFIC PRACTICE

The Diploma in Scientific Practice, a period of industrial training is available with an additional year of full-time study. It is not offered to international students.

COMBINED DEGREES

There are also combined degree programs in all specialisations (except Urban Ecology) with:

- Laws
- Business
- Engineering
- International Studies

UTS: ENVIRONMENTAL FORENSICS

BACHELOR OF SCIENCE IN ENVIRONMENTAL FORENSICS

WHAT WILL I LEARN?

This interdisciplinary degree trains scientists in the new field of environmental forensics that combines a strong environmental science focus with law.

The course provides you with the necessary skills in science; the understanding of the ecosystems function; the effects of the environmental impacts and the ecosystem protection regulatory and legal means.

Your studies will include science and law subjects, with emphasis on obtaining investigatory scientific evidence acceptable in court. The flexibility of this degree will allow you to develop a science speciality.

CAREER OPTIONS

When you graduate you will have a wide choice of career options. You can work in the government areas as an analytical or environmental scientist, in environmental protection and natural resource management, or in policy and management areas equipped with relevant legal knowledge.

In the private sector you will work in monitoring, planning, assessment and management areas of environmental consulting firms. You can also work as research officers (eg CSIRO & universities) and as secondary school and TAFE teachers.

Many of you will continue your training by undertaking an Honours year and postgraduate studies (Master of Science and PhD).

FULL TIME PROGRAM

YEAR 1

AUTUMN SEMESTER

Cell Biology & Genetics	6cp
The Biosphere	6cp
Statistical Design & Analysis	6cp
Chemistry 1	6cp

SPRING SEMESTER

Biocomplexity	6cp
Human Anatomy & Physiology	6cp
Chemistry 2	6cp
Physical Aspects of Nature	6cp

YEAR 2

AUTUMN SEMESTER

Ecology	6cp
Experimental Design and Sampling	6cp
Geological Processes	6cp
Elective	6cp

SPRING SEMESTER

Environmental Forensics	6cp
Environmental Chemistry	6cp
Principles of Forensic Science	6cp
Elective	6cp

YEAR 3

AUTUMN SEMESTER

Aquatic Ecology	6cp
Environmental Law & Science	6cp
Biodiversity Assessment	6cp
GIS & Remote Sensing	6cp

SPRING SEMESTER

Environmental protection and management	6cp
Environmental forensic law	6cp
Stream and lake assessment	6cp
Elective	6cp

HONOURS

The Bachelor of Science (Honours) is available to eligible students with an additional year of full time study.

COURSE CODES ...

UTS course code: C10242

UAC code: 607011

Duration: 3 years full time

Location: City campus

Assumed Knowledge: English, Mathematics and at least one Science subject (preferably Chemistry).

NEED TO KNOW MORE??

Course Director

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