WHAT WILL I LEARN?
The Bachelor of Medicinal Chemistry equips you with skills to undertake the design, discovery and development of new drugs.
The course is a research inspired, trans-disciplinary degree located at the intersection of chemistry, biology and pharmacology.
In your first year, you will develop a solid foundation in chemistry, maths and biology which will underpin your future studies. These topics will be expanded and developed as you progress through your degree with subjects such as pharmacology and drug synthesis strategies delivered in your second and third years of study.
The practice oriented nature of the degree will involve access to cutting edge instrumentation, equipping you with the necessary skills to prepare you for a career as a medicinal chemist.

CAREER OPTIONS
This program offers graduates a pathway into careers at the forefront of drug discovery, from concept to delivery.
Your highly developed practical skills will differentiate you from other graduates, allowing you to work in areas of drug discovery and development including the creation of new synthetic drug compounds.
You can choose to work in range of industries including pharmaceutical science to biotechnology where you will have the opportunity to interact with multi-disciplinary teams involving pharmacologists, toxicologists, analytical chemists, microbiologists, and bio-pharmacists.

Majority of jobs are with pharmaceutical companies, biotechnology start-ups, clinical trials management or government regulatory authorities.
This program also provides you with the requisite knowledge for entry into the UTS Masters of Pharmacy. This is a professional qualification that leads to eligibility for qualification as a pharmacist.
Research opportunities can also be accessed through the Honours or Masters programs leading to higher research degree studies

HONOURS
The Bachelor of Medicinal Chemistry (Honours) is available to eligible students via an additional year of full time study.

PROFESSIONAL SOCIETIES
Graduates will be eligible for membership of the Royal Australian Chemical Institute.

COURSE CODES
UTS course code: C10275
UAC code: 607065
Duration: 3 years full-time
Location: City campus
Assumed Knowledge: Year 12 Mathematics, any two units of English, and any two units of Science.

NEED TO KNOW MORE?
Associate Professor Andrew McDonagh
Program Director Medicinal Chemistry
School of Chemistry and Forensic Science
Phone (02) 9514 1035
Email: Andrew.McDonagh@uts.edu.au

CRICOS Provider Code: 00099F
Updated on 11 Aug 2014
### FULL TIME PROGRAM

#### YEAR 1

**AUTUMN SEMESTER**
- Principles of Scientific Practice 6cp
- Chemistry 1 6cp
- Cell Biology & Genetics 6cp
- Mathematical Modelling for Science 6cp

**SPRING SEMESTER**
- Chemistry 2 6cp
- Statistics and Mathematics for Science 6cp
- Human Anatomy & Physiology 6cp
- Elective 6cp

#### YEAR 2

**AUTUMN SEMESTER**
- Organic Chemistry 1 6cp
- Physiological Systems 6cp
- Physical Chemistry 1 6cp
- Elective 6cp

**SPRING SEMESTER**
- Organic Chemistry 2 6cp
- Inorganic Chemistry 1 6cp
- Spectroscopy and Structure 6cp
- Medicinal Chemistry 6cp

#### YEAR 3

**AUTUMN SEMESTER**
- Analytical Chemistry 2 6cp
- Metabolic Biochemistry 6cp
- Pharmacology 1 6cp
- Elective 6cp

**SPRING SEMESTER**
- Strategies in Drug Synthesis 6cp
- Analytical Chemistry 3 6cp
- Pharmacology 2 6cp
- Elective 6cp

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### OTHER NEW COURSES COMMENCING IN 2015

UTS Science is introducing a few new courses commencing in 2015, which are:

- Bachelor of Biomedical Physics
- Bachelor of Advanced Science (Advanced Materials)
- Bachelor of Advanced Science (Environmental Biotechnology)
- Bachelor of Advanced Science (Infection and Immunity)
- Bachelor of Advanced Science (Pre-Medicine)

Find out more at the UTS Science booths and discuss study options with our academics.


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### 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.

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