

## Undergraduate Biotechnology Student Information

The University of Technology, Sydney offers the following undergraduate Biotechnology courses:

- C10172 Bachelor of Biotechnology  
*This is the most flexible degree program. It allows students to tailor their course to include the specific areas of biotechnology that they are interested in from business to advanced medical science (CBK90232 electives, see below).*
- C10140 Bachelor of Biotechnology Bachelor of Laws  
*Biotechnology-related law is the most dynamic and exciting area of law. The ethical and legal decisions (eg stem cells, genetic engineering etc) that are being made in company and patent law, are changing the world.*
- C10078 Bachelor of Engineering Bachelor of Biotechnology  
*This course is for biochemical engineers who wish to make the equipment and processes of the future. From fuel cells to nanotech machines to innovative 100,000 litre bioreactors.*
- C10168 Bachelor of Biotechnology Bachelor of Arts in International Studies  
*This course is for biotechnology students who would like to travel and work in another culture, facilitating the transfer of knowledge across language and cultural boundaries. Modern science is an international process.*
- C10169 Bachelor of Biotechnology Bachelor of Business  
*The best science/business combination. This course is for students who would like to work in bioscience businesses. Initiating new businesses, working within corporations, production managers, marketing managers, innovators, industrial scientists etc.*
- C09022 Bachelor of Biotechnology (Honours)  
*A year of postgraduate research in one of Australia's most highly regarded Honours programs. Topics range from gene therapy and cancer research to bioremediation of land.*

Australian and Permanent resident students can apply for admittance via the University Admissions Centre (<http://www.uac.edu.au/>). Specific information on enrolling for a UTS course is available at <http://www.uts.edu.au/study/apply.html>.

For information on enrolment for international students contact the International Office (<http://www.uts.edu.au/international/index.html>).

All other enrolment and administration enquiries should be directed to the Faculty of Science student administrator, Denise Tudge (Denise.Tudge@uts.edu.au, 61 2 9514 4111). Appropriate academic enquiries will be forwarded to by the student administrator to Dr Rachel Shepherd.

## Suggested Themed Elective Combinations\* for the Bachelor of Biotechnology (2007)

Subject Number	Subject Name	Credit Points	Sem A/S	Recommended Stage
<b>Medical Biotechnology (Microbiology)</b>				
91703	Physiological Systems	6	A	3
91330	Epidemiology and Public Health Microbiology	6	S	4
91338	Clinical Bacteriology	6	A	5
91352	Parasitology	6	S	6
UNSW	or Viruses and Disease	6	S	6
<b>Medical Biotechnology (Biochemistry)</b>				
91703	Physiological Systems	6	A	3
91330	Epidemiology and Public Health Microbiology	6	S	4
91344	Medical and Diagnostic Biochemistry	6	A	5?
91345	Biochemistry, Genes and Disease	6	S	6
<b>Medical Biotechnology (Pharmacology)</b>				
91703	Physiological Systems	6	A	3
91330	Epidemiology and Public Health Microbiology	6	S	4
91707	Pharmacology 1	6	A	5
91709	Pharmacology 2	6	S	6
<b>Medical Biotechnology (Neurophysiology)</b>				
91703	Physiological Systems	6	A	3
91704	Behavioural Sciences	6	S	4
91706	Neuroscience	6	A	5
91708	Psychophysiology	6	S	6
<b>Plant Biotechnology**</b>				
91237	Plant Pathology**	6	S	4
91270	Plant Physiology and Ecophysiology	6	A	5
<b>Environmental Biotechnology**</b>				
91121	Aquatic Ecology**	6	A	5
91113	Pollution Ecology	6	S	6
<b>Bionanotechnology</b>				
60103	Nanosciences 1	6	A	3
60104	Nanosciences 2	6	S	4
60302	Scanned Probe and Electron Microscopy	6	A	5
60601	Bionanotechnology	6	S	6
<b>Forensic Sciences</b>				
91703	Physiological Systems	6	A	3
	or			
65410	Chemical Safety and Legislation	6	A	3
65241	Principles of Forensic Science	6	S	4
91137	DNA Profiling	6	A	5
91141	Biological Evidence	6	S	6
	or			
35255	Forensic Statistics	6	S	6
<b>IVF and Reproductive Biotechnology</b>				
91703	Physiological Systems	6	A	3
91355	Haematology 1	3	S	4
69342	(Legal Aspects of Occupational Health and safety) or another 3 cpt elective	3	S	4
91344	Medical and Diagnostic Biochemistry	6	A	5
	or			
91354	Anatomical Pathology	6	A	3 or 5
91707	Pharmacology 1	6	A	5
91709	Pharmacology 2	6	S	6
<b>Business Management</b>				
21227	Innovation and Small Venture Management	6	A/S	4
22107	Accounting for Business	6	A/S	5
	or			
25115	Economics for Business	6	A/S	5
24108	Marketing Foundations	6	A/S	6

**Occupational Health and Safety Management**  
 69312 Occupational Hazard Analysis  
 63941 Risk Management  
 69342 Legal Aspects of Occupational Health and Safety Management  
 Biological Hazards and Toxicology

**Biophysics**

68315	Imaging Science	6	A
68413	Quantum Technology	6	S
68513	Optics and Nanophotonics	6	A
68606	Solid State Science and Nanodevices	6	S

**Tailored Options**

65410	Chemical Safety and Legislation	6	A	3
60601	Bionanotechnology	6	S	4
21227	Innovation and Small Venture Management	6	A/S	5
77920	Current Issues in Biomedical Law and Bioethics	6	S	6

\*Subject to timetabling restrictions  
 \*\*EB recommended