

It is recommended that students seek advice from the course coordinator when selecting elective units.

Alternative elective units not listed in the schedules may be included with the approval of the course coordinator.

LIST OF UNITS

SCHEDULE A3 (YEAR 3 CORE UNITS)

Molecular Biology and Protein Biochemistry
Techniques in Molecular Biology and Protein Biochemistry
Advanced Biochemistry and Molecular Biology
Research Project in Biochemistry and Molecular Biology
Human Genetics
Gross Anatomy: Head and Neck
Anatomy: Thorax and related systems
Gross Anatomy: Limbs and Back
Anatomy: Abdomen, Pelvis and related systems
Neuroscience A
Neuroscience B
Extreme Physiology
Applied Physiology
Medical Microbiology and Immunology 1
Medical Microbiology and Immunology 2
Medicinal Chemistry in Pharmacy
Clinical Pharmacokinetics 3
Chemotherapy and Infection
Toxicology

Alternative structure for neuroscience stream

Students wishing to take a Neuroscience/Psychology stream may choose a slightly different program in order to allow for additional Psychology units and their pre-requisites. These students may take *Psychology 1A* and *Psychology 1B* in first year instead of *Cell Biology*, *Genetics & Evolution* and *Data Handling & Statistics*. *Cell Biology*, *Genetics & Evolution* would be studied in second year, along with *Psychology Research Methods 2* (instead of *Data Handling & Statistics*).

SCHEDULE B (ELECTIVE UNITS)

Unit Title

Year 1 (B1)
Psychology 1A
Psychology 1B
Year 2 (B2)
Community Health & Medicine 2
Gross Anatomy: Limbs and Back
Anatomy: Thorax and related systems
Anatomy: Abdomen, pelvis and related systems
Population Health
Pharmacology 1
Pharmacology 2
Microbiology and Mycology
Plant Genetics and Molecular Biology
Environmental Chemistry
Chemical Synthesis and Spectroscopy
Chemical Analysis
Psychology – Research methods 2
Data Handling & Statistics 2
Year 2 or 3 (B2 or B3)
Learning & skilled performance
Lifespan developmental psychology
Health & rehabilitation psychology
States of consciousness
Clinical Psychology
Year 3 (B3)
Biotechnology Law
Genetics
Cell Biology
Molecular Ecology and Evolution
Food Microbiology
Microbial Ecology and Evolution
Research Methods 3
Individual Differences & Psychological Assessment
Human Neuroscience
Cognition & Memory

POSTGRADUATE STUDY OPTIONS

The University of Tasmania, in conjunction with the Menzies Research Institute, carries out world-class medical research in Diabetes, Neuroscience, Cancer, Population Studies, Respiratory Disease and a range of other fields. The course is an ideal preparation for entry into Honours and PhD study, working with research staff in these exciting areas. A list of current research projects is available at www.menzies.utas.edu.au/research.html

MORE INFORMATION AND CONTACTS

Client Services

If you need further information about admission or the courses offered by the Faculty, please contact Client Services.

Freecall: 1300 363 864

University of Tasmania

Locked Bag 1345

Launceston Tasmania 7250

Fax: (03) 6324 3026

Email for course information: Course.Info@utas.edu.au

Email for admission enquiries: admissions@utas.edu.au

University of Tasmania: www.utas.edu.au

General information about starting university, application procedures, fees, scholarships, exchanges, accommodation and advice on course selection is available at www.utas.edu.au. Select the link to "Future Students". There is also a link to the Course and Unit Handbook where you can find a full listing of units including semester, prerequisites, corequisites and mutual exclusions, including sample courses.

Or contact the School:

Medical Sciences

School of Medicine

University of Tasmania

Private Bag 24

Hobart Tasmania 7001

Phone (03) 6226 7114

Fax (03) 6226 2679

Email Secretary@physiol.utas.edu.au

Is this course not quite what you are looking for? Some units from the Bachelor of Medical Research may be incorporated as part of the Bachelor of Science or Bachelor of Biotechnology degrees.

The contents of this brochure are correct at the time of printing.

The Faculty reserves the right to update advice from time to time and the most recent version of this information can be found on our websites.



CRICOS Provider Code: 00586B

Bachelor of Medical Research



FACULTY OF HEALTH SCIENCE





BACHELOR OF MEDICAL RESEARCH

WHAT IS THE BACHELOR OF MEDICAL RESEARCH (BMedRes)?

This degree is offered from the Hobart campus only.

This is the first named medical research degree in Australia. It will inform students about the fast-moving field of medical research by providing an understanding of the structure and function of healthy human cells, tissues, organs and systems, as well as the abnormal genetic, cellular and systemic changes that characterise human diseases and conditions. Students are able to select options that prepare them for careers or further studies in fields such as immunology and cancer, epidemiology, neuroscience, pharmacology and other areas of medical research and medical science. Third year units emphasise acquisition of research skills through mini-projects.

The course is based on the teaching expertise of the University's School of Medicine and provides access to topics not previously available. The degree also offers opportunities for interactions with internationally renowned researchers from the Menzies Research Institute.

CAREER OUTCOMES

Medical Research is a rapidly expanding area, and graduates can expect to find employment in a range of areas including the pharmaceutical, pathology and biomedical industries, biotechnology companies, research institutes, hospitals and universities, and other health-related professions at both State and Commonwealth levels. Graduates will also be well equipped for teaching positions in biology and biomedical science.



PROFESSIONAL RECOGNITION

The Bachelor of Medical Research is not limited to a single professional discipline, but is designed to provide a basis for medical research in a variety of settings.

ENTRY REQUIREMENTS

University entrance requirements plus a minimum ITI score of 90. Also required are:

- TCE pre-tertiary chemistry (CHM5C); and,
- Physical Sciences (PSC5C) or equivalent.

A background in mathematics (e.g. Mathematics MAP5C or MME5C) is strongly recommended.

LENGTH OF COURSE

The degree takes three years full-time or six years part time. The maximum time to complete the course is eight years.



COURSE STRUCTURE

The Bachelor of Medical Research allows specialisation in certain areas such as Cardiorespiratory, Neuroscience, Pharmacology, Immunology & Cancer, Microbiology or Epidemiology.

Students must study compulsory core units in years 1 and 2, shown in orange in the table below. In year 2 students have a choice of elective units, shown in blue, in addition to the five core units. In year 3 there is choice from a range of core and elective units.

Year 1	Human Biology 1	Histology & Cell Biology 1	Chemistry 1A	Data Handling & Statistics
	Human Biology 2	Histology & Cell Biology 2	Chemistry 1B	Cell Biology, Genetics & Evolution
Year 2	Human Physiology 1	Biochemistry: Metabolism & Nutrition	Elective unit from schedule B2	Elective unit from schedule B2
	Human Physiology 2	Molecular Biology in Health & Disease	Basic Pathological Processes & Immunity	Elective unit from schedule B2
Year 3	Choice of units from schedule A3 (75% minimum)			Elective units from schedule B3 (25% maximum)

Example course – immunology and cancer

Year 1	Human Biology 1	Histology & Cell Biology 1	Chemistry 1A	Data Handling & Statistics
	Human Biology 2	Histology & Cell Biology 2	Chemistry 1B	Cell Biology, Genetics & Evolution
Year 2	Human Physiology 1	Biochemistry: Metabolism & Nutrition	Community Health & Medicine 2	Pharmacology 1
	Human Physiology 2	Molecular Biology in Health & Disease	Basic Pathological Processes & Immunity	Pharmacology 2
Year 3	Molecular Biology & Protein Biochemistry	Techniques in Molecular Biology & Protein Biochemistry	Medical Microbiology & Immunology 1	Toxicology
	Advanced Biochemistry & Molecular Biology	Research Project in Biochemistry & Molecular Biology	Medical Microbiology & Immunology 2	Chemotherapy & Infection