

2007/2008

UNDERGRADUATE COURSE GUIDE

University of Tasmania



How to use this Course Guide

This Course Guide lists all undergraduate courses offered at the University of Tasmania at the time of printing.

START RESEARCHING YOUR OPTIONS

Use the Areas of Study index on the page opposite to find your area of interest. The page references provided will guide you to the relevant courses.

COURSES

All associate degrees are listed on pages 4 and 5.

Combined degrees are shown in table form on page 6. Refer to the relevant bachelor degree programs for more detailed information about areas of study, further study options and career opportunities.

Bachelor degrees are listed on the remaining pages of this Course Guide. They are shown in alphabetical order within faculty groupings – Arts, Business, Education, Health Science, Law, and Science, Engineering & Technology.

HOW TO READ THE COURSE INFORMATION

The information below explains headings used within the course listings:

Duration

Length of the course if studied full-time. Most courses at the University of Tasmania are also offered part-time; for information about part-time study in a specific course, go to www.utas.edu.au/courses.

Note that part-time study is **not** available to **international** students.

Location

Campus(es) at which the course is available:

- Hobart
- Launceston
- Cradle Coast (Burnie).

Any conditions of study at a particular campus are shown as footnotes. Note that the Cradle Coast campus is **not** available to **international** students.

Intake

The University has two main intakes each year – February (semester 1 start) and July (semester 2 start). All degree courses can be commenced in February; some courses also have an intake in July.

Clearly-in-TER

The clearly-in-TER listed for each course entry is indicative of the TER score for first-round offers for 2007 applications. For courses where entry is highly competitive (e.g. Medicine, Pharmacy, Medical Imaging), places are allocated according to strict quotas and TER scores are extremely competitive.

Where a clearly-in-TER score is not listed, entry to the course is on the basis of special requirements, such as an audition or folio, or completion of another qualification.

TER scores do **not** apply to **international** applicants unless they are currently completing Year 12 in Australia.

What is a TER?

The Tasmanian Qualifications Authority provides numeric scores for all completed level 5 subjects, for tertiary entrance purposes only. In addition to a grade (EA, HA, CA or SA), a score is calculated for each level 5 subject a student successfully completes. This initial score is called a Tertiary Entrance (TE) score.

The TER (Tertiary Entrance Rank) is a percentile ranking of students using their initial TE score. It is calculated by totalling the scores of the best three level 5 subjects taken in Year 12, together with the best score(s) of up to two other level 5 subjects from either Year 11 or 12.

The TER is equivalent to ranking systems used in other Australian states, such as the ENTER, ITI and UAI.

Additional prerequisites

Specific Year 11/12 level 5 subjects required **in addition** to normal University of Tasmania entrance requirements. For entry to some courses, foundation/bridging units may be taken if students have not completed level 5 subject prerequisites (see page 10 of the Prospectus for details of bridging programs).

For information about University entrance requirements, refer to the application and admission information on pages 18 and 19 of the Prospectus.

Special requirements

Any requirements in addition to normal University entrance, e.g. a folio of artwork for visual arts courses, or an audition for performing arts courses.

Areas of study

List of majors or specialisations available in the course, or main topics covered during the program.

Further study options

Pathways available for further study at a higher level after completion of this degree.

FEEES FOR INTERNATIONAL STUDENTS

A complete list of annual tuition fees is available on the international website at: www.international.utas.edu.au/static/courseFees/index.php

DETAILED COURSE INFORMATION

Further information about course structures and individual units for all courses listed in this Course Guide is available on the website at: www.utas.edu.au/courses

Information on qualifications and accreditations gained on course completion, assessment and teaching methods, equipment and learning facilities is available at www.utas.edu.au

Areas of Study

Arts

Aboriginal Studies	7
Ancient Civilisations	7
Ancient Greek	7
Asian Studies	7
Chinese	7, 9
Criminology	7
English	7
European Studies	7
Fine Arts	9
French	7, 9
German	7, 9
Gender Studies	7
History	7
Indonesian	7, 9
International Relations	7
Japanese	7, 9
Journalism, Media & Communications	7
Latin	7
Music	8, 9
Philosophy	7
Police Studies	10
Political Science	7, 10
Public Policy	7, 10
Screen Studies	7
Social Ecology	7, 10
Social Science	10
Social Work	11
Sociology	7, 10
Theatre	8
Time-based Multimedia	11
Visual Arts	8
Visual Communication	11

Business

Accounting	12
Australian Economy & the Asia Pacific	13
Business Economics	12
Business Management	12

Corporate Governance	12
Economic Analysis	13
Economic Policy	13
Economics	13
Electronic Business	12, 14
Entrepreneurship	12
Finance	12, 13
Hospitality Management	12
Human Resource Management	12
Information Systems	14
Marketing	12
International Business	12
Management of Information Systems	12, 14
Organisational Management	12
Systems Development	14
Tourism	14
Tourism Management	13

Education

Adult & Vocational Education	15
Early Years (0–5)	15
Early Childhood	15
Health & Physical Education Teaching	16
Kindergarten–Grade 6	15
Middle School	15, 17
Primary	15, 17
Secondary	15, 17

Health Science

Biomedical Science	18
Exercise Science	18
Health Science	19
Medical Imaging	20
Medical Research	20
Medicine – Surgery	20
Nursing	21
Pharmacy	21

Law

Laws	22
Arts–Laws	22
Business–Laws	22
Computing–Laws	22
Economics–Laws	22
Information Systems–Laws	22
Music–Laws	22
Science–Laws	22

Refer also to relevant entry for other course component (e.g. Arts, Business, Computing etc.)

Science, Engineering & Technology

Agricultural Science	23
Antarctic Studies	23
Aquaculture	24
Architecture	24
Biotechnology	25
Chemistry	28
Computing	25
Earth Sciences (Geology)	28
Engineering	25
Environmental Design	26
Environmental Science	26
Forest Science	26
Geography & Environmental Studies	7, 28
Marine Science	27
Mathematics	28
Natural Environment & Wilderness Studies	7, 27
Physics	28
Plant Science	28
Psychology	7, 27
Surveying & Spatial Sciences	30
Technology	30
Zoology	28

Associate degrees

Associate degrees provide an alternative pathway into the University for applicants who do not meet minimum university entry requirements for degree courses. These programs can be a stepping-stone to a related degree, provide a formal award for several years of full-time study, or allow a university 'taster' for those unsure of their study direction.

AQUACULTURE

DURATION: 2 years

LOCATION: Launceston

INTAKE: February, July

SPECIAL REQUIREMENTS

Satisfactory achievement or better in a minimum of any two TCE level 5 subjects

AREAS OF STUDY

This course aims to produce aquaculture technicians who have a sound understanding of the scientific bases of aquaculture as well as advanced technical skills.

Theoretical, technical and practical training is complemented by a minimum of two weeks of work experience in industry.

FURTHER STUDY OPTIONS

Bachelor

CAREER OPPORTUNITIES

The practical nature of this course ensures ready employment in all facets of the rapidly-expanding aquaculture industry, as well as in hatcheries.

ARTS

DURATION: 2 years

LOCATION: Hobart, Launceston, Cradle Coast†

INTAKE: February, July

SPECIAL REQUIREMENTS

Audition/interview if visual/performing arts units are selected

AREAS OF STUDY

This course offers a taster of university life, is an ideal way to pursue a strong interest in a particular subject area such as history or music, or can be used as a stepping-stone to the Bachelor of Arts. A number of foundation units may be included, plus first- and second-year Faculty of Arts units.

FURTHER STUDY OPTIONS

Bachelor

CAREER OPPORTUNITIES

Graduates may gain employment in fields such as the public service, journalism, administration, management, local government, public relations, events management, market research, museum curating and scriptwriting.

BUSINESS MANAGEMENT*

DURATION: 2 years

LOCATION: Hobart, Launceston, Cradle Coast

INTAKE: February, July

SPECIAL REQUIREMENTS

Entry via TAFE Diploma

AREAS OF STUDY

This course provides participants with the fundamental and relevant knowledge, skills, capabilities and awareness necessary for a graduate who seeks to further a career in business management. Students may select studies from the following areas:

- Business Management
- Corporate Governance
- Integrated Business Management
- Quality Auditing.

CAREER OPPORTUNITIES

This course is aimed at those already working in the business environment. Further job opportunities include roles in corporate governance, integrated business management, and human resource management.

DESIGN

DURATION: 2 years

LOCATION: Launceston

INTAKE: February

SPECIAL REQUIREMENTS

Interview/portfolio

AREAS OF STUDY

Students choose one of the following two streams:

- Culinary Design – contemporary design, food and lifestyle, computer imaging and design drawing
- Materials & Technology Design – foundation studio design, principles of design, computer-aided design, and materials and technology design.

FURTHER STUDY OPTIONS

Bachelor, Honours, Masters, PhD

CAREER OPPORTUNITIES

Graduates will find employment in culinary design/food preparation industries and services, or timber and metal design for the fabrication industries.

FURNITURE DESIGN

DURATION: 2 years

LOCATION: Launceston

INTAKE: February

SPECIAL REQUIREMENTS

Normal entry requirements

Limited quota for applicants who do not meet normal entry requirements. Entry is on the basis of interview and folio, and/or demonstration of relevant skills and knowledge.

AREAS OF STUDY

This course is aimed specifically at the needs of furniture designers and makers, and aims to equip students with the knowledge and skills which are necessary for graduates to practise their profession.

Associate degrees

CAREER OPPORTUNITIES

- Self-employed designer and furniture practitioner
- Designer or maker in the fine wood industry
- Designer in a furniture production house
- Furniture production manager

GENERAL STUDIES

DURATION: 2 years

LOCATION: Hobart, Launceston, Cradle Coast†

INTAKE: February, July

AREAS OF STUDY

This course is designed for students who would like to undertake university study but may be unsure of their study pathway, as well as providing a formal award for two years of university-level study.

The flexible course structure enables the maximum possible choice of studies for students.

FURTHER STUDY OPTIONS

Bachelor, Honours, Masters, PhD

CAREER OPPORTUNITIES

Job opportunities available on completion of this course will vary depending upon the student's chosen discipline area.

MUSIC STUDIES

DURATION: 2 years

LOCATION: Hobart

INTAKE: February, July

SPECIAL REQUIREMENTS

Musicianship diagnostic test

AREAS OF STUDY

Students will be able to select units to suit their own interests or develop a study stream that allows articulation with bachelor degrees in Music Studies or Music.

Areas include: music history; ensembles; foundation studies; audio technology; and electives such as Rock Band Experience and Gospel Choir.

FURTHER STUDY OPTIONS:

Bachelor, Honours, Masters, PhD

CAREER OPPORTUNITIES:

Employment in music-related industries, or other activities related to music or requiring a broad knowledge of music.

PARAMEDIC STUDIES^o

DURATION: Part-time 3 years minimum

LOCATION: Hobart

INTAKE: February

SPECIAL REQUIREMENTS

Applicants should address the selection criteria specified in the University's application for admission, and have a clinical placement which is approved by licensed providers.

AREAS OF STUDY

This is a professionally recognised course studied over three years part-time with concurrent full-time employment in the ambulance service.

Students will acquire the necessary attitudes and skills to meet the needs of the community, the industry and the profession as an ambulance paramedic and member of the health care team.

FURTHER STUDY OPTIONS

Bachelor

CAREER OPPORTUNITIES

Graduates will be qualified, practising paramedical professionals prepared to take leadership roles in emergency pre-hospital care situations and contribute to the expansion of practice knowledge. They will meet the professional requirements for employment as a qualified ambulance paramedic and be eligible for membership of the Australian College of Ambulance Professionals.

SCIENCE

DURATION: 2 years

LOCATION: Hobart, Launceston#, Cradle Coast campus*##

INTAKE: February, July

AREAS OF STUDY

Students are able to select from the following areas:

- Aquaculture
- Biochemistry
- Chemistry
- Computer Science
- Geography & Environmental Studies
- Geology (earth sciences)
- Mathematics
- Microbiology/Immunology
- Physics
- Plant Science
- Psychology
- Zoology

Several foundation units – Chemistry, Computer Applications, Life Sciences, Mathematics, Physics – form the first stage of the course. A number of these foundation units may also be taken by students who wish to obtain specific prerequisites for other degree programs.

FURTHER STUDY OPTIONS

Bachelor

CAREER OPPORTUNITIES

This course articulates to the Bachelor of Science. However, should a student decide not to continue onto the bachelor's degree, the following employment opportunities are available: laboratory assistant; science technician; fieldwork assistant; and administrative officer.

Combined degrees

A combined degree is a specifically-structured program which merges the core requirements of two different degrees. It enables students to graduate with the equivalent of two degrees in an accelerated time period. Combined degrees offer students the advantage of greater depth and diversity of subject choices, and broader career opportunities.

Degrees	Duration	Additional prerequisites	Location
Aquaculture–Business	4	As for Aquaculture, Business	L
Arts–Business	4	As for Business	H, L, CC#
Arts–Computing	4	Normal entry requirements	H, L, CC*
Arts–Economics	4	As for Economics	H, L*, CC*
Arts–Fine Arts	4	As for Fine Arts	H
Arts–Laws	5	See Law requirements	H, L*, CC*
Arts–Music	4	As for Music	H
Arts–Science	4	As for Science	H, L†, CC†*
Business–Computing	4	As for Business	H, L, CC*
Business–Economics	4	As for Business, Economics	H, L*, CC*
Business–Information Systems	4	As for Business	H, L, CC*
Business–Laws	5	See Law, Business requirements	H, L*, CC*
Business–Science	4	As for Science, Business	H, L†, CC†*
Computing–Economics	4	As for Economics	H, L*, CC*
Computing–Laws	5	See Law requirements	H, L*, CC*
Computing–Science	4	As for Science	H, L†, CC†*
Computing–Teaching	4	Normal entry requirements	H, L*
Economics–Laws	5	See Law, Economics requirements	H, L*, CC*
Economics–Science	4	As for Economics, Science	H, L†*, CC†*
Engineering–Master of Business Administration	5	Entry as for Engineering; articulation to MBA after completion of 2 years in Engineering with 65% grade average	H
Fine Arts–Information Systems	4	As for Fine Arts	H
Health Science–Medical Radiation Science (Medical Imaging) [°]	4	See entry under Health Science courses	L & Charles Sturt University
Health Science–Teaching	4	As for Health Science	L
Information Systems–Laws	5	See Law requirements	H, L*, CC*
Information Systems–Music	4	As for Music	H
Information Systems–Teaching	4	Normal entry requirements	H, L*
Music–Laws	5	As for Music	H
Music–Teaching	4	As for Music	H
Science–Engineering	5	As for Science, Engineering	H, L†^
Science–Laws	5	See Law, Science requirements	H, L*, CC*
Science–Teaching	4	As for Science	H, L*

* First year only; † Limited range of science subjects; # Restricted 3rd and 4th years; ^ 1st and 2nd years only;

° Not currently available to international students.

Note: Cradle Coast campus not available to international students.

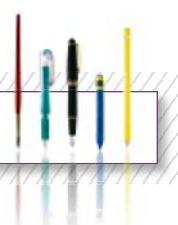
SAMPLE COMBINED DEGREE STRUCTURES

Bachelor Of Arts – Bachelor Of Business

YEAR 1 = 100%	Arts Subject 1 = 25%	Arts Subject 2 = 25%	Core Year 1 Business = 50%
YEAR 2 = 100%	Arts Subject 1 = 25%	Arts Subject 2 = 25%	Core Year 1 Business = 50%
YEAR 3 = 100%	Arts Subject 1 = 25%	Arts Subject 1/2 = 25%	Business major subject = 50%
YEAR 4 = 100%	Arts Subject 1 = 25%	Arts Subject 1/2 = 25%	Business major subject = 50%
Arts major (subject 1) = 100%		Business major = 100%	
Arts component = 200%		Business component = 200%	

Bachelor of Science – Bachelor of Laws

YEAR 1 = 100%	Intro Law = 12.5%	Legal Systems = 12.5%	Science Subject 1 = 25%	Science Subject 2 = 25%	Science Subject 3 = 25%
YEAR 2 = 100%	Law = 50%		Science Subject 1 = 25%	Science Subject 2 = 25%	
YEAR 3 = 100%	Law = 50%		Science Subject 1 = 50%		
YEAR 4 = 100%	Law = 82.5%			Science Elective = 12.5%	
YEAR 5 = 100%	Law = 100%				
Law component = 312.5%			Science major (subject 1) = 100%		
			Science component = 187.5%		



ARTS

DURATION:	3 years
LOCATION:	Hobart, Launceston, Cradle Coast†, distance education/ flexible delivery*
INTAKE:	February, July
CLEARLY-IN TER:	65

Offers an opportunity for a broad-based liberal education in the humanities and the social sciences, and provides skills in critical thinking, problem solving, information literacy and communication.

AREAS OF STUDY

Students are able to build a flexible course of study covering a wide range of areas:

- Aboriginal Studies (H, L, D)
- Ancient Civilisations & Languages (H)
- Asian Studies (H, L)
- Behavioural Science (H, L)
- Chinese (H, L)
- Criminology (H, L)
- English (H, L, CC#, D)
- European Studies (H)
- French (H)
- Geography & Environmental Studies (H, L, CC*)
- Gender Studies (H)
- German (H, L#)
- History (H, L, CC#, D)
- Indonesian (H, L)
- International Relations (H, L)
- Japanese (H, L#)
- Journalism, Media & Communications (H)

- Logic & Philosophy of Science (H, L, CC#, D#)
- Natural Environment & Wilderness Studies (H)
- Philosophy (H, L, CC*, D)
- Political Science (H, L, D)
- Psychology (H, L, CC*)^
- Public Policy (H, L, D)
- Screen Studies (H)
- Social Ecology (H)
- Sociology (H, L, CC#, D)

In addition, a major may be completed from another field of study, e.g. Marketing, Zoology, Music or Computing.

FURTHER STUDY OPTIONS

Honours, Grad Cert, Grad Dip, Masters, PhD

HONOURS

After completion of the Bachelor of Arts students can take an extra year of in-depth study in one or two of the following disciplines: Aboriginal Studies; Asian Studies; Australian Studies; Chinese; Classics; English; French; Gender Studies; Geography & Environmental Studies; History; Indonesian; Japanese; Journalism, Media & Communications; Philosophy; Political Science; Psychology; Public Policy; and Sociology.

ADVANCED HONOURS PROGRAM

Within the Bachelor of Arts, a special program has been created to recognise high achieving students. Entry requires a TER of 90 or above,

and in order to maintain their place in the program students must maintain a Distinction-average grade each year.

Students choose from the same areas of study as for the Bachelor of Arts. Enrolment also includes a specific Advanced Honours unit within which students have additional academic mentoring and the opportunity to participate in high-level seminars and mini-conferences. Participation in this program greatly enhances study experiences and career opportunities for graduates.

CAREER OPPORTUNITIES

Arts graduates are well-placed to enter a variety of employment fields combining specialised skills with those generic skills that employers really desire. Some of these fields are:

- Journalism
- Radio and television
- Local government and the public service
- Arts, heritage and museum curatorship
- Diplomacy
- Interpreting
- Tourism management
- Marketing and administration
- Politics
- Armed forces, law enforcement and justice
- Teaching
- Research
- Publishing
- Psychology
- Counselling
- Community work

SAMPLE BACHELOR OF ARTS COURSE STRUCTURE – MAJORS IN PHILOSOPHY AND HISTORY

Year 1	Year 2	Year 3
French 1A	French Language 2A	Philosophy of Science
French 1B	French Language 2B	Philosophy & Literature
Philosophy 1A	Philosophy of Mind	Aboriginal Philosophy
Philosophy 1B	Buddhist Philosophy	Philosophy of Biology
History 1A	Philosophy of History & Society	Tasmanian History from 1856
History 1B	Medieval Britain	Australian History 1788–1990s
Computing elective	Late Medieval Europe	African–American History
Computing elective	History & Heritage	Australian Environmental History

~ International students may only undertake this course by distance if they are in their home country or a country other than Australia. * First year only. † Studies at Cradle Coast campus are not currently available to international students. # Limited range of units after first year. ^ Undergrad, honours, and postgrad programs in Psychology are accredited by the Australian Psychological Society.



My choice of career ANNE BOTTOMLEY

Program Schedule Manager,
Network Ten

Anne Bottomley had always loved English at school and knew that she wanted to have a career that used her English skills in some way. A Bachelor of Arts was her starting point, and led her to employment in the television industry.

"My English major definitely helped me in my current role with Network Ten – I used it initially with things as simple as preparing a good resume, which goes a long way in an industry obsessed with attention to detail. It was useful later when preparing the network's program guides and writing storylines for distribution to newspapers and magazines."

At Network Ten Anne oversees the schedule of daily programs that go to air. "This can involve viewing overseas products in preparation for choosing what programs we do purchase, which can sometimes be fun (and sometimes excruciating!). I also liaise with local and international distributors in order to get material delivered in time for telecast."

CONTEMPORARY ARTS

DURATION: 3 years

LOCATION: Launceston

INTAKE: February

A broad studio-based degree offering specialisations in visual arts, theatre or contemporary music.

SPECIAL REQUIREMENTS

Visual arts – portfolio and interview;
Theatre – audition and interview;
Contemporary Music – audition and interview

AREAS OF STUDY

Students choose one of the following streams:

- Contemporary Music
- Theatre
- Theory Studies
- Visual Arts – Two-Dimensional Studies (printmedia, painting, drawing)
- Visual Arts – Three-Dimensional Studies (ceramics, sculpture, textiles)

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

- Gallery and theatre administration
- Stage management, lighting and technical theatre
- Individual practice in visual arts and theatre
- Arts advertising, marketing and promotion
- Corporate theatre and theatre in education
- Radio and television
- Teaching and research
- Website design and maintenance
- Curatorial practice in galleries and museums
- Scriptwriting and devised performance

DESIGN TEACHING

DURATION: 4 years

LOCATION: Launceston

INTAKE: February

Prepares intending design and technology teachers with the knowledge and skills to pursue a career in education.

SPECIAL REQUIREMENTS

Interview/portfolio or direct entry for trade certificates

AREAS OF STUDY

In the first two years students complete a stream in either Culinary Design or Materials and Technology Design. In the next two years, students complete the teaching component, which includes curriculum and methods units and school placements.

FURTHER STUDY OPTIONS

Honours, coursework/research masters, PhD

CAREER OPPORTUNITIES

Students who complete this degree will be eligible for registration as teachers in Tasmania, with teaching specialisations in the following disciplines:

- Home economics
- Woodwork/metalwork
- CAD graphics
- Textiles



FINE ARTS

DURATION: 3 years

LOCATION: Hobart

INTAKE: February

Designed to give students a broad visual arts education and to provide a foundation for a career in fine arts.

SPECIAL REQUIREMENTS

Portfolio and interview

AREAS OF STUDY

Fine arts studies encompass all aspects of visual culture, exploring it from both studio-based work to theoretical, historical and cultural perspectives. Areas of study include:

- Art and design theory
- Drawing
- E-media
- Furniture design
- Graphic design
- Painting
- Photography
- Printmaking
- Sculpture

Elective units in Natural Environment & Wilderness, Woodskills and E-media are also available.

FURTHER STUDY OPTIONS

Honours, Grad Cert, Grad Dip, Masters, PhD

CAREER OPPORTUNITIES

- Art teacher
- Museum curator
- Graphic designer
- Web master
- Small business operator
- Private art gallery director
- Professional arts practitioner
- Arts administrator

LANGUAGES (DIPLOMA)^o

DURATION: Part-time, 2 years min.

LOCATION: Hobart, Launceston*

INTAKE: February, July

Allows students to focus on learning to speak, read and write one of a number of Asian or European languages.

SPECIAL REQUIREMENTS

Pass at first-year university level in relevant language, or TCE Level 5 (HA or better), or equivalent.

AREAS OF STUDY

Students choose one of the following languages:

- Chinese (H)
- French (H)
- German (H)
- Indonesian (H,L)
- Japanese (H,L)

CAREER OPPORTUNITIES

- Interpreting
- Translating
- Teaching
- Publishing
- Travel and tourism
- Trade and diplomacy
- Migrant education

Students can also combine the diploma with study in another degree in order to enhance career prospects.

MUSIC

DURATION: 3 years

LOCATION: Hobart

INTAKE: February, July

Provides students with the many skills necessary for success in the music profession.

SPECIAL REQUIREMENTS

Audition and interview

AREAS OF STUDY

Music has an important place in people's lives in all cultures, and the study of music enriches any student's university course, opening doors to lifelong learning and enjoyment. The degree includes:

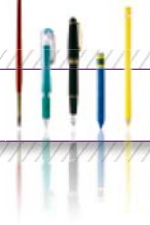
- Core studies – streamed for either classical or contemporary students
- Major study – instrumental (keyboard, orchestral instruments, guitar), voice, composition, musicology, music theatre
- Ensemble studies
- Electives – allow students to deepen their studies in a variety of directions (e.g. music education, music technology)

FURTHER STUDY OPTIONS

Honours, Grad Cert, Grad Dip, Masters, PhD

CAREER OPPORTUNITIES

- Arts administrator
- Community music officer
- School teacher or university lecturer
- Producer
- Radio announcer
- Composer
- Music librarian
- Solo performer and professional musician in orchestras and ensembles in Australia and overseas



MUSIC STUDIES

DURATION: 3 years

LOCATION: Hobart

INTAKE: February, July

Offers pathways to tertiary qualifications for students who have a general appreciation of music, to expand and develop a deeper level of knowledge, understanding and skill.

SPECIAL REQUIREMENTS

Written test, and audition if intending to take solo performance units

FURTHER STUDY OPTIONS

Bachelor of Music, Honours, Grad Cert, Grad Dip, Masters, PhD

AREAS OF STUDY

Students are able to combine core studies units in either contemporary or classical music, with music theory, music history and audio and technology units. Elective units can deepen students' study in ensemble studies, solo performance, music education, as well as broadening study into other degrees.

CAREER OPPORTUNITIES

- Ensemble musician
- Teacher or administrator
- Music criticism
- Broadcasting

SOCIAL SCIENCE

DURATION: 3 years

LOCATION: Launceston

INTAKE: February, July

CLEARLY-IN TER: 65

Provides students with exposure to social science as applied to practical real-world issues.

AREAS OF STUDY

Students choose majors from the following options:

- Human Resource Management
- International Relations
- Political Science
- Psychology
- Public Policy
- Sociology

FURTHER STUDY OPTIONS

Honours, Grad Cert, Grad Dip, Masters, PhD

CAREER OPPORTUNITIES

Social Science graduates are prepared for careers in the post-industrial service and information sectors, and will be able to gain employment in areas such as:

- Social and market research
- Human resource management
- Public administration
- Policy analysis
- Social welfare administration
- Psychology
- Police force

SOCIAL SCIENCE (POLICE STUDIES)

DURATION: 3 years

LOCATION: Hobart, Launceston, Cradle Coast*†

INTAKE: February, July

CLEARLY-IN TER: 65

Designed to give students high-quality social science training together with specific knowledge and skills of policing.

ADDITIONAL PREREQUISITES

Completion of the Tasmania Police Recruitment Course (TPRC) is an advantage for mature-age applicants (credit is granted towards the degree for the TPRC).

AREAS OF STUDY

The core major in Police Studies focuses on topics such as zero tolerance, policing protests, global crime, cop culture, forensic psychology, community policing and social deviance. A second major is chosen from:

- History
- Human Resource Management
- Information Systems
- International Relations
- Philosophy
- Political Science
- Psychology
- Public Policy
- Social Ecology (Hobart only)
- Sociology

FURTHER STUDY OPTIONS

Honours, Grad Cert, Grad Dip, Masters

CAREER OPPORTUNITIES

Police studies graduates play a vital role in modern society and are employed in many areas, including:

- State policing
- Federal policing
- Government – police policy
- Security services
- Intelligence officers
- Para-legal workers



SOCIAL WORK

DURATION: 2 years

LOCATION: Launceston

INTAKE: February

Provides a broadly-framed course of study with an emphasis on students gaining knowledge and understanding of social functioning, social problems and social services. The course is designed to meet the educational requirements of the Australian Association of Social Workers (AASW).

SPECIAL REQUIREMENTS

Completion of two years in Bachelor of Arts or Bachelor of Social Science (or equivalent), including study in Sociology and Psychology.

AREAS OF STUDY

In each of the two years of study, students undertake:

- One semester of academic study
- One semester of practical field placement.

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

Social work is part of a growing service industry with graduates working across local, state and federal government departments, in private and non-government human services organisations and in various advocacy, policy-making and tribunal capacities. Specific employment opportunities include:

- Child welfare officer
- Corrections officer
- Women's and youth services officer
- Counsellor
- Manager of human services
- Social worker

TIME-BASED MULTIMEDIA

DURATION: 3 years

LOCATION: Hobart

INTAKE: February

Develops practical and theoretical skills in audio design, music, screen-based electronic media and moving image production.

SPECIAL REQUIREMENTS

Portfolio of work, admission diagnostic test and interview

AREAS OF STUDY

The course consists primarily of studies in art and music subjects. Along with a set of core units, students are free to choose two electives, selected from art, music or computing units. Students also undertake an extensive piece of work in project units run in each year of the course.

CAREER OPPORTUNITIES

Graduates can expect to find employment in the multimedia industry, in roles such as:

- Computer-based music production
- Audio design
- Graphic design
- Video production

VISUAL COMMUNICATION

DURATION: 3 years

LOCATION: Hobart

INTAKE: February

Equips students with a range of core practical and research skills and adaptive creative approaches to prepare for changes that lie ahead in the rapidly-evolving field of visual communication.

SPECIAL REQUIREMENTS

Interview or portfolio

AREAS OF STUDY

Students will acquire a sound knowledge of design through core studies, and build on this through further specialisation in the fields of Graphic Design or E-Media.

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

- Publishing
- Typographic design
- Advertising
- Digital media
- Illustration
- Information design
- Interpretation design
- Corporate identity
- Animation
- Web design
- Interactive media
- Design writing



BUSINESS

DURATION:	3 years
LOCATION:	Hobart, Launceston [#] , Cradle Coast ^{#†}
INTAKE:	February, July
CLEARLY-IN TER:	65

A multi-disciplined degree ensuring students learn the fundamental disciplines underlying the dynamic professional world of business.

ADDITIONAL PREREQUISITES

Students who do not have a maths background must complete UPP090 Bridging Maths or BEA109 Introduction to Quantitative Methods before enrolling in the unit BEA140 Quantitative Methods.

AREAS OF STUDY

- Accounting (H, L, CC)
- Business Economics (H)
- Business Logistics (H, L, CC)
- Business Management (H, L)
- Corporate Governance (H, L, CC)
- Electronic Business (H, L)
- Entrepreneurship (H, L)
- Finance (H)
- Human Resource Management (H, L)
- International Business (H)
- Management of Information Systems (H, L)
- Marketing (H, L)

- Organisational Management (CC)
 - Tourism (H, L)
- In addition, a major may be completed from another field of study, e.g. Computing or Psychology.

FURTHER STUDY OPTIONS

Honours, Grad Dip, Masters (coursework or research), PhD

CAREER OPPORTUNITIES

- Advertising
- Management
- Auditing and tax consulting
- Local government
- Business consulting
- Marketing research
- Central banking
- Merchant banking
- Corporate finance
- Electronic business
- Systems analysis
- Financial accounting
- Services marketing
- Sport and recreation management
- Industrial relations
- Information systems management

BUSINESS ADMINISTRATION (HOSPITALITY MANAGEMENT)

DURATION:	Summer Semester + 1 year
LOCATION:	Hobart, Launceston
INTAKE:	December

Provides an opportunity for students to combine an advanced achievement in hospitality studies with a focused study of complementary units.

SPECIAL REQUIREMENTS

TAFE Advanced Dip in Hospitality Management or equivalent

AREAS OF STUDY

Students study a range of business areas, including:

- Business Administration
- Human Resource Management
- Marketing

FURTHER STUDY OPTIONS

Honours, Masters (research), PhD

CAREER OPPORTUNITIES

- Hospitality management
- Human resource management
- Marketing

Graduates will be eligible to apply for membership status in the Catering Institute of Australia.

SAMPLE BACHELOR OF BUSINESS COURSE STRUCTURE – ENTREPRENEURSHIP MAJOR

Year 1	Year 2	Year 3
Accounting and Financial Decision Making	Entrepreneurship and Creativity	Entrepreneurship and Innovation
Business Information Systems	Financial Management	Project Evaluation and Planning
Commercial Transactions	Foundations of Entrepreneurship	Electronic Marketing or Strategic Management
Economics for Business	Organisational Behaviour	Nominated Elective
Introduction to Management	4 x Electives	4 x Electives
Quantitative Methods		
Principles of Marketing		
Elective		



BUSINESS ADMINISTRATION (TOURISM MANAGEMENT)

DURATION: Summer Semester + 1 year

LOCATION: Hobart

INTAKE: December

Provides an opportunity for students to combine an advanced achievement in tourism studies with a focused study of complementary business units.

SPECIAL REQUIREMENTS

TAFE Advanced Diploma in Tourism Management or equivalent

AREAS OF STUDY

Students study a range of business areas, including:

- Business Administration
- Human Resource Management
- Marketing

FURTHER STUDY OPTIONS

Honours, Masters (research), PhD

CAREER OPPORTUNITIES

'The superior tourism management skills gained through the BBA (Tourism Management) will equip graduates with the knowledge necessary to meet the challenges of this dynamic industry' (Rob Giason, Chief Executive, Tourism Tasmania).

ECONOMICS

DURATION: 3 years

LOCATION: Hobart, Launceston*, Cradle Coast*†

INTAKE: February, July

CLEARLY-IN TER: 65

Allows students to develop a detailed understanding of the issues and factors, both national and international, that determine how macro and micro economic systems are organised and how decisions are made by individuals, business, firms and governments.

ADDITIONAL PREREQUISITES

Maths Applied or higher

AREAS OF STUDY

- Australian Economy & the Asia Pacific
- Economic Analysis
- Economic Policy
- Finance

or a major from another field of study, e.g. Accounting, Computing or Government

FURTHER STUDY OPTIONS

Honours, Masters (research), PhD

CAREER OPPORTUNITIES

- Banking industry
- Insurance
- Commonwealth and state government
- Market forecasting
- Economic research
- Stockbroking
- Statistics
- Fund management
- Consulting firms



My choice of career KRISHNA PRADITYA

Account Executive –
Illustria Design, Indonesia

Graduating with a Bachelor of Business in August 2006 (majoring in business management and entrepreneurship), Krishna's studies have helped him in his developing career in many ways. Krishna, an account executive with Illustria Design in his home country of Indonesia, attributes his boost in confidence level, ability to create business plans, and overall skills in becoming a better manager to his studies in Tasmania.

"The highlight of UTAS for me was my entrepreneurship major. I learnt many things that will help me in my career and I really enjoyed the classes! Another great highlight was being part of the UTAS Ultimate Frisbee Team and playing in the Southern University Games."

Krishna chose UTAS because he felt it provided him with the ideal environment to study, and was not disappointed with his choice. "I really love the environment and the atmosphere of Tasmania. It's so peaceful and relaxing. It helped me a lot in focusing on my study."



INFORMATION SYSTEMS

DURATION:	3 years
LOCATION:	Hobart, Launceston, Cradle Coast**
INTAKE:	February, July
CLEARLY-IN TER:	65

Opens the doors into all areas of information technology and business.

Graduates will have a good understanding of the roles of IT in society, within organisations and for individuals.

AREAS OF STUDY

- Electronic Business
- Management of Information Systems
- Systems Development

or a major from another field of study, e.g. Accounting, Computing or Psychology

FURTHER STUDY OPTIONS

Honours, Grad Cert, Grad Dip, Masters (coursework and research), PhD

CAREER OPPORTUNITIES

- Communications manager
- Information systems manager
- Database manager
- Project manager
- Electronic business
- Systems/business analyst
- Information manager
- Web master

TOURISM

DURATION:	3 years
LOCATION:	Hobart, Launceston
INTAKE:	February, July
CLEARLY-IN TER:	65

Helps students develop an understanding of the key issues surrounding tourism, its impact and ongoing management.

AREAS OF STUDY

The course consists of a tourism component, a complementary major and 4 elective units. In the tourism component students study:

- Wilderness and heritage tourism
- Policy and planning
- Eco-and nature-based tourism
- Sustainable tourism, including a project.

The complementary major can come from a wide range of disciplines, e.g. a language, History, English, Business, Geography.

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

- Tourism and the travel industries
- Heritage tourism, museums and historic sites
- Wilderness, Antarctic and nature tourism
- Tourism research
- Tourism marketing
- Tourism administration



ADULT AND VOCATIONAL EDUCATION

DURATION:	3 years
LOCATION:	Distance education~
INTAKE:	February, July

Seeks to prepare educators and trainers to work in a variety of modern educational situations and in a range of contexts in the field of adult and vocational education.

ADDITIONAL PREREQUISITES

The first year of the program is comprised of study outside the Faculty of Education, e.g. TAFE, a registered training organisation or other university study. Also includes provision for mature-age entry and recognition of previous work experience.

AREAS OF STUDY

The course focuses on leading current trends in adult and vocational education.

FURTHER STUDY OPTIONS

Honours, Bachelor of Education (in-service), coursework and research Masters, PhD

CAREER OPPORTUNITIES

Graduates gain roles in public and private enterprises as:

- Industry trainer
- Registered private provider
- Community educator
- Language and literacy tutor
- Online course designer or learning facilitator
- TAFE teacher
- Human resource development administrator
- Workplace teaching and learning role

EDUCATION

DURATION:	4 years
LOCATION:	Launceston, Cradle Coast†
INTAKE:	February, July
CLEARLY-IN TER:	65

Prepares students for teaching appointments in early childhood (kindergarten, prep, grades 1 and 2) and primary (grades 3–6).

FURTHER STUDY OPTIONS

Honours, Grad Cert, Masters, PhD

AREAS OF STUDY

- Curriculum studies
- Education studies
- Liberal studies taken in another faculty, e.g. Psychology, English, etc.
- School experience
- Specialised honours program for students with a high grade point average

CAREER OPPORTUNITIES

Graduates are able to teach in all government and non-government school systems across Australia. A number of graduates each year also take up appointments overseas. Graduates acquire generic communication skills which allow them to undertake work in areas that include:

- Early childhood or primary teacher
- Industry trainer
- Commercial trainer
- Sales positions
- Training consultant
- Resource teacher

EDUCATION & CARE (EARLY YEARS)°

DURATION:	4 years
LOCATION:	Hobart, Launceston, Cradle Coast
INTAKE:	February

Provides a qualification and expertise for existing and future childcare providers

ADDITIONAL PREREQUISITES

Completed Diploma of Children's Services or equivalent award

AREAS OF STUDY

Early Years (ages 0–5) in teaching, leadership, management and administration

FURTHER STUDY OPTIONS

Articulation to Bachelor of Education

CAREER OPPORTUNITIES

Graduates will be able to apply for positions in childcare centres. Those graduates already employed in this sector will have enhanced opportunities for promotion into more senior positions.



My choice of career LYNETTE WALKER

Teacher – Port Dalrymple School, Tasmania

After completing a Teacher Aide certificate while based at Port Dalrymple School, Lynette Walker realised that teaching was a long-term aspiration, and that she now had the skills and knowledge to pursue it as a career. She enrolled in the Bachelor of Education (In-service), as the flexible structure of the course allowed her to continue working, raise her children, and study.

"Finishing the degree has empowered me and reinforced the importance of lifelong learning. The confidence and knowledge I've gained have allowed me to fulfil my dreams of supporting and teaching children. One of my favourite units was Boys in Education, because I enjoy working with 'at risk' children and this unit provided me with a range of strategies and understanding that I could apply immediately."

Summer School was another highlight of the program for Lynette: "It's a great opportunity to meet fellow students and lecturers and engage in learning with other professionals who have the same passion."

Lynette's current role at Port Dalrymple School involves teaching in the Grade 10 Apprenticeship Pathway Program, and Pathway and Vocational Learning. "The commitment and enthusiasm of the lecturers at UTAS have been an amazing inspiration in my journey."

EDUCATION (IN-SERVICE)^o

DURATION: 4 years

LOCATION: Hobart, Launceston, distance education/ flexible delivery

INTAKE: February, July

Enables teachers/teacher aides to complete teaching qualifications.

SPECIAL REQUIREMENTS

Must be currently working in a classroom in a school.

FURTHER STUDY OPTIONS

Honours, Grad Cert, Masters, PhD

AREAS OF STUDY

Requires participants to explore current issues in education while reflecting on their own teaching experiences in an educational setting.

CAREER OPPORTUNITIES

Education graduates are able to teach in all government and non-government school systems across Australia and are also equipped with generic communication skills that allow them to undertake work in areas such as:

- Early childhood or primary teacher
- Industry trainer
- Commercial trainer
- Sales positions
- Training consultant
- Resource teacher

HUMAN MOVEMENT

DURATION: 4 years

LOCATION: Launceston

INTAKE: February

CLEARLY-IN TER: 65

Enables students to develop the necessary practical skills and theoretical knowledge to undertake careers in fields related to human movement.

ADDITIONAL PREREQUISITES

Formal or informal background in the following areas would be of assistance (although not essential) in studying Human Movement: Chemistry; Biology; Anatomy; Physiology; Health Studies; and evidence of involvement in exercise and physical activity.

AREAS OF STUDY

Years 1 and 2 are a core study program. Years 3 and 4 allow specialisation in one of the following areas:

- Health and Physical Education Teaching (K–12)
- Outdoor Education

FURTHER STUDY OPTIONS

Honours, Grad Cert, Masters, PhD

CAREER OPPORTUNITIES

- Health and physical education teaching
- Coaching specific sports
- Sport marketing
- Sport and event management
- Exercise and sport science
- Personal training
- Rehabilitation co-ordinator
- Gymnasium manager
- Outdoor education teacher



TEACHING

DURATION: 2 years

LOCATION: Hobart, Launceston

INTAKE: February

Provides a strong theoretical and practical foundation for teaching and further professional development in education.

SPECIAL REQUIREMENTS

Completed undergraduate degree

AREAS OF STUDY

Students choose one of the following specialisations:

- Kindergarten – Grade 6 (H, L)
- Middle School (H)
- Secondary, including the following curriculum options:
 - Art (L)
 - English (H, L)
 - Information Technology (cross-campus)
 - LOTE (H)
 - Mathematics (H)
 - Performing Arts (Drama and Music) (L – flexible delivery)
 - Science (H)
 - Studies of Society and Environment (H, L)
 - Technology (MDT) (L)

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

Graduates are able to work as teachers in years K–12, depending on their specialisation.

The generic communication skills gained also allow graduates to undertake work in areas such as:

- Research
- Industry trainer
- Commercial trainer
- Sales

TEACHING (BRIDGING PROGRAM)^o

DURATION: 1 year

LOCATION: Launceston

INTAKE: February

Provides a foundation year in material, design and technology study prior to enrolment in the 2-year Bachelor of Teaching degree.

SPECIAL REQUIREMENTS

TAFE Diploma or completed trade apprenticeship

FURTHER STUDY OPTIONS

Bachelor of Teaching, Honours, Grad Cert, Masters, PhD

AREAS OF STUDY

The course is specifically designed for those who want to teach material, design and technology in a secondary school environment and who have qualifications and experience in a related field.

To determine if you are eligible for this program please call (03) 6324 3298.



BIOMEDICAL SCIENCE

DURATION:	3.5 years
LOCATION:	Launceston
INTAKE:	February
CLEARLY-IN TER:	75

Designed to provide the academic knowledge and professional skills needed to practise as a medical scientist.

ADDITIONAL PREREQUISITES

Chemistry and Maths Applied or higher

AREAS OF STUDY

The course structure consists of six semesters of on-campus study, followed by a semester of clinical placement at an accredited laboratory within Australia.

Areas of study include:

- Blood transfusion
- Anatomy and physiology
- Microbiology
- Biochemistry
- Clinical chemistry
- Haematology
- Histopathology
- Immunology
- Molecular biology

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

This course is one of only nine programs nationally to be accredited by the Australian Institute of Medical Scientists (AIMS). Graduates are therefore eligible for direct entry into AIMS, with recognition as medical scientists.

Employment opportunities for graduates include:

- Hospital clinical and pathology laboratories
- Private pathology services
- Blood transfusion services
- Public health laboratories
- University or industry research
- Veterinary laboratories

After a graduate has entered the clinical laboratory, there are also additional career paths into informatics, management, human resource management and a wide range of clinical specialties.

EXERCISE SCIENCE

DURATION:	3.5 years
LOCATION:	Launceston
INTAKE:	February
CLEARLY-IN TER:	75*

Designed to produce graduates who should meet the professional requirements to apply for registration with the Australian Association for Exercise and Sport Science (AAESS) as exercise physiologists or sport scientists.

ADDITIONAL PREREQUISITES

Physical Sciences with one other science or maths subject (Health Studies, Sport Science, Maths Applied, Maths Methods, Maths Specialised, Biology, Chemistry or Physics)

AREAS OF STUDY

Students develop an understanding of the basic concepts involved in the role of physical activity in the health of individuals and communities.

Exercise physiologists and sport scientists provide assessment, monitoring and program prescription for fitness and exercise in a diverse range of populations from the chronically ill to elite athletes.

BACHELOR OF BIOMEDICAL SCIENCE COURSE STRUCTURE

Year 1	Year 2	Year 3	Year 4
Chemistry 1A	Histopathology	Human Molecular Biology	Medical Laboratory Practice
Cell Biology & Function	Metabolic Biochemistry	Haematology 2	Medical Laboratory Placement 1 (12.5%)*
Intro to Medical Laboratory Sciences	Anatomy & Physiology 2	Clinical Chemistry 2	Medical Laboratory Placement 2 (25%)*
Data Handling & Statistics	Immunology (MLS)	Medical Microbiology A	
Chemistry 1B	Cell & Molecular Biology	Transfusion Science	
Anatomy & Physiology 1	Haematology 1	Clinical Chemistry 3 (Endocrinology)	
Histology	Clinical Chemistry 1	Medical Microbiology B	
Microbiology & Health	General & Medical Microbiology	Research & Topics in Health Sciences	

* For international students, practicum placement is normally undertaken in the student's home country.



Areas of study include:

- Biochemistry
- Anatomy and physiology
- Kinesiology
- Exercise physiology, nutrition and disease
- Biomechanics
- Sport psychology

A compulsory practicum in exercise science is completed in either semester 2 of Year 3 or semester 1 of Year 4. This practicum is designed to make students aware of the requirements of the Exercise Science industry by introducing them to the work environment.

FURTHER STUDY OPTIONS

Honours, Masters, PhD. Graduates may also be able to pursue research in exercise science or to apply for postgraduate study in areas such as physiotherapy or rehabilitation.

CAREER OPPORTUNITIES

Graduates may be employed in the private and public sectors in:

- Hospital and private clinical laboratories
- Private practice
- Professional sporting clubs and national sporting academies and institutes
- Rehabilitation centres
- Fitness industry
- Public health projects

HEALTH SCIENCE

DURATION: 3 years

LOCATION: Launceston

INTAKE: February, July

CLEARLY-IN TER: 65

A multidisciplinary degree that prepares students for various career opportunities in the health sector, as well as for entry to graduate programs in allied areas and teaching.

ADDITIONAL PREREQUISITES

One of the following or equivalent: Biology, Chemistry, Health Studies, Physical Sciences, Physics, Maths Applied or higher, Sports Science; or appropriate foundation unit. Completion of Chemistry and Maths Applied is an advantage for the Bioscience stream.

AREAS OF STUDY

Year 1 units provide a foundation in the life sciences and an introduction to health care and management.

In Years 2 and 3, students undertake core units in applied life sciences and elective units from streams in:

- Bioscience
- Health and Lifestyle
- Business/Psychology

FURTHER STUDY OPTIONS

Honours, Grad Dip in Medical Laboratory Science, Masters, PhD

CAREER OPPORTUNITIES

There are employment opportunities in government and non-government medical and general health services and in research organisations, including:

- Policy and health management
- Health promotion and health services
- Clinical research
- Rehabilitation centres
- Community health groups
- Health and well-being consultancy
- Welfare agencies
- Sports science and fitness industry
- Sales representation



My choice of career

ALEX YONG

**Medical Scientist,
Queensland Medical Laboratory**

After hearing about the University of Tasmania from an education agent back in his hometown of Sibuluan, Sarawak, Alex felt that the UTAS Bachelor of Biomedical Science program was one of the top courses being offered in Australia and New Zealand. Tasmania, being an affordable place to live, was an added bonus!

"The course is an AIMS (Australian Institute of Medical Scientists) accredited degree, which means that graduates are admitted directly into the professional association, and this is really helpful when looking for a job. Relatively small class sizes mean that the lecturers can give students individual attention during practicals and tutorials and get to know the students well on a personal level."

Alex, who graduated with a Bachelor of Biomedical Science in 2005, is currently working as a medical scientist with Queensland Medical Laboratory on the Gold Coast. "I am so proud to be a graduate from UTAS because when I started working, I realised that the course is extremely well designed to prepare students for future careers as multi-skilled scientists."

"International tourists spend thousands of dollars to visit Tasmania, so I consider myself lucky to have been able to live and study there for four years, travel around the island and get a degree."



HEALTH SCIENCE – MEDICAL RADIATION SCIENCE (MEDICAL IMAGING)^o

DURATION:	4 years
LOCATION:	Launceston and Charles Sturt University, Wagga Wagga
INTAKE:	February
MINIMUM TER:	85 [#]

Provides the academic knowledge and professional skills needed to practise as a radiographer.

ADDITIONAL PREREQUISITES

Maths Applied or higher, and Physical Sciences or Physics

AREAS OF STUDY

Over the four years of the program (Years 1 and 2 in Launceston, followed by Years 3 and 4 at Charles Sturt University in Wagga Wagga), studies include:

- Anatomy and physiology
- Physics for health science
- Health sciences
- Radiological imaging
- Radiographic instrumentation and fundamentals

The program also includes clinical placements.

FURTHER STUDY OPTIONS

Grad Cert/Grad Dip in ultrasound, MR and computed tomography, Masters, PhD

CAREER OPPORTUNITIES

Graduates are employed in hospital or private medical imaging departments.

Opportunities exist to specialise in ultrasonography, magnetic resonance imaging, computed tomography and mammography.

MEDICAL RESEARCH

DURATION:	3 years
LOCATION:	Hobart
INTAKE:	February
CLEARLY-IN TER:	90 [*]

Prepares students for careers in the rapidly growing field of medical research. This field is centred on the biological underpinning of human health and disease, with a focus on providing new procedures and therapeutic agents to improve human health.

ADDITIONAL PREREQUISITES

Chemistry and Physical Sciences, or equivalents

AREAS OF STUDY

Provides students with an understanding of the structure and function of healthy human cells, tissues, organs and systems, and 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 oncology, epidemiology, neuroscience, pharmacology and other areas of medical research and medical science.

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

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 at both State and Commonwealth levels.

MEDICINE – SURGERY

DURATION:	5 years
LOCATION:	Hobart
INTAKE:	February
MINIMUM TER:	95 [*]

ADDITIONAL PREREQUISITES

Chemistry and English (English Communications, English Studies or English Writing or equivalents)

A sound background in Maths (e.g. Maths Methods) is desirable. Medicine applicants who meet the prerequisites are then ranked in terms of their performance in the UMAT.

AREAS OF STUDY

Studies in this degree are based around five themes:

- Human health and disease
- Communication and collaboration
- Community health and disease
- Personal and professional development
- Integration.

Teaching incorporates an integrated case-based learning approach from first year onwards. This provides an engaging and interactive framework to deliver the course objectives.

In the first three years, students will undertake predominantly campus-based learning programs, with exposure to patient contact in a variety of environments. Year 3 will provide the transitional year to clinical settings, and Years 4 and 5 will involve the students in a series of clinical rotations.

The first three years are taught at the Hobart campus. In years 4 and 5 students will study at the Hobart, Launceston or rural (Burnie) clinical schools.

FURTHER STUDY OPTIONS

Graduate Diploma of Pathology, Master of Medical Science, Master of Surgery, Doctor of Medicine, Doctor of Philosophy.



CAREER OPPORTUNITIES

Medicine offers a diverse range of career opportunities. Following completion of their internship, graduates can choose to specialise in one of a number of fields such as: anaesthesia, dermatology, obstetrics and gynaecology, geriatric medicine, paediatrics, pathology, psychiatry, radiology and surgery.

Medical practitioners may work in private practice on their own, in group practices, in community health centres and in public and private hospitals.

Graduates may also become medical administrators in hospitals or government departments, or medical academics and / or researchers involved with teaching or medical research.

UMAT

Australian applicants to Medicine are required to complete the Undergraduate Medicine and Health Sciences Admission Test (UMAT). For additional information about entry requirements, please refer to the Tasmanian School of Medicine Information for Future Students website at www.medicine.utas.edu.au/internal/future_index.html

International students

For further information about applying as an **international student** go to www.international.utas.edu.au

NURSING

DURATION:	3 years, 2.5 years [#] or 2 years [#]
LOCATION:	Launceston*
INTAKE:	February
CLEARLY-IN TER:	65 (3-year program) 70 (2-year fast-track program)

Prepares students for a broad spectrum of first-level practice roles in community health nursing, acute care and mental health nursing; or enables registered nurses to gain additional knowledge and skills to increase and/or enhance their scope of practice.

ADDITIONAL PREREQUISITES

There are no prerequisites for this course. However, recommended subjects for Year 12 applicants include: English, Biology or Health Studies, and a humanities subject (e.g. Sociology or Psychology).

Non-year 12 applicants should closely address the selection criteria specified in the University's application for admission. Evidence of skills in areas such as time management, interpersonal communication and team work would be an advantage, as well as experience in duties relevant to the field of nursing.

AREAS OF STUDY

- The discipline of nursing
- Nursing practice
- Supporting studies in sociology and life sciences

FURTHER STUDY OPTIONS

Grad Cert, Grad Dip, Honours, Masters, PhD

CAREER OPPORTUNITIES

- Hospitals
- Health centres
- Nursing homes and the community

PHARMACY

DURATION:	4 years
LOCATION:	Hobart [†]
INTAKE:	February
MINIMUM TER:	90 ⁻

ADDITIONAL PREREQUISITES

Chemistry and Maths Methods. Biology is not required but is highly recommended.

AREAS OF STUDY

The course is divided into three general sections: a basic science year including an introduction to pharmacy; a year focusing on the study of drugs and pharmaceutical sciences; and two years of applied and clinical studies. During Years 3 and 4, students are placed in community and hospital pharmacy sites through a practice-based experiential learning program.

An Honours course option is available, involving an overload in Years 3 and 4. A separate honours course is also available.

Graduates must undertake a 12-month traineeship period after the 4-year degree to become eligible to sit the examinations for registration as a pharmacist.

FURTHER STUDY OPTIONS

Honours, Masters, PhD

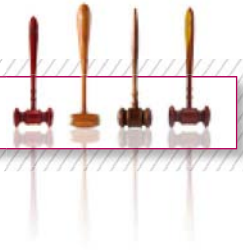
CAREER OPPORTUNITIES^{*}

In addition to the traditional primary role in supplying high quality medicines in both the community and in hospitals, pharmacists these days are increasingly concerned with providing information about the rational use of drugs to patients and other health care professionals.

Graduates may elect to specialise in community or hospital practice, or move between these areas, while others work in the pharmaceutical industry or in government health departments.

After undertaking further studies, such as an honours or postgraduate degree, some graduates may find careers in laboratory or clinical drug research.

^{*}Year 3 can be undertaken in Hobart, Launceston, Burnie and interstate. [#]Limited places. [^]Students enrolled in the 3-year degree may be offered an accelerated pathway in their second year, to enable completion in 2.5 years (this involves a summer semester to be undertaken in 2nd year). [†]During Years 3 and 4 students may be required to attend assigned clinical and professional teaching sites outside of Hobart. These placements may involve costs to the student for travel and accommodation. ⁻Entry to this course is competitive and strict quotas apply, including quotas for interstate and international applicants.



My choice of career PIO E. MANOA

Lecturer – Ocean Law & Policy,
University of the South Pacific

From the island of Tasmania to the islands of Fiji, Pio firmly believes that his undergraduate studies at UTAS have provided him with a solid platform for employment in a range of disciplines and locations.

As a graduate of a combined Science–Laws degree, Pio is now utilising his valuable combination of skills and working in his native country of Fiji as a Lecturer in Ocean Law and Policy for University of the South Pacific, Suva.

Pio recommends UTAS to anyone who would like to study away from the hustle and bustle of big universities and cities: "Compared to other larger tertiary institutions in Australia, there is a greater sense of community at UTAS because of its smaller student population. I was privileged to study under recognised international experts in the areas of environmental management and law. The networks and friendships that I formed with lecturers and students are invaluable and continue to enrich my career today."

LAWS

DURATION:	1 + 3 years for Law degree 5 years for combined Law degree
LOCATION:	Hobart, Launceston*, Cradle Coast*†
INTAKE:	February, July#
CLEARLY-IN TER:	92 (direct entry into combined Law degree)

Provides academic preparation for students who wish to enter the legal profession.

SPECIAL REQUIREMENTS

There are three pathways into the Bachelor of Laws:

1. *Direct entry into a combined Law degree.* A limited number of places are available to for Year 12 leavers who attain a minimum TER of 92. Students apply for the relevant degree with Introduction to Law and if they achieve the minimum TER may be granted direct entry into their chosen combined Law degree.
2. *General entry.* Completion of first year in another faculty which includes the units LAW121 Introduction to Law and LAW122 Legal Systems. Having successfully completed this year of study students can apply to transfer to the Law degree. Entry into the Bachelor of Laws is subject to a quota based on academic merit.
3. *Graduate entry.* Completed bachelor degree, then 3 years' further study in Bachelor of Laws. Entry into the Bachelor of Laws is subject to a quota based on academic merit.

AREAS OF STUDY

The Bachelor of Laws enables students to take units in a number of areas, including:

- Family law
- Antarctic law
- Environmental law
- Criminal law
- Corporate law
- International law

A Bachelor of Laws can be combined with bachelor degrees in:

- Arts
- Business
- Computing
- Economics
- Information Systems
- Music
- Science.

FURTHER STUDY OPTIONS

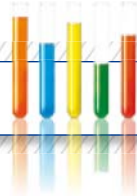
Honours, Grad Cert in Legal Practice, Masters, PhD

CAREER OPPORTUNITIES

A law degree is a prerequisite to admission as a legal practitioner (solicitor or barrister). These days, however, employers from a wide range of disciplines value the skills that law graduates possess.

Possible employment prospects include:

- Industry legal officer
- Ministerial adviser
- Legal aid
- Community legal adviser
- Attorney-General's department
- Law Reform Commission
- Consumer Affairs
- Foreign Affairs
- Police
- Legal drafting
- Politics
- Banking and finance
- Journalism and publishing
- Teaching



AGRICULTURAL SCIENCE

DURATION: 4 years

LOCATION: Hobart

INTAKE: February, July

CLEARLY-IN TER: 65

Equips graduates with scientific knowledge and skills in the principles of agricultural production and sustainable resource management.

ADDITIONAL PREREQUISITES

Chemistry and Maths Applied

FURTHER STUDY OPTIONS

Honours, Masters, PhD

AREAS OF STUDY

- Horticultural science and agronomy
- Animal physiology and nutrition
- Microbiology and plant pathology
- Soil science and entomology
- Crop protection and plant nutrition
- Economics and farm management

CAREER OPPORTUNITIES

- Agribusiness
- Marine and Antarctic research
- Production agriculture
- Resource management
- Business management
- Agricultural research
- Education
- Forestry
- Aquaculture
- Food processing
- Food technology
- Waste management

ANTARCTIC STUDIES

DURATION: 3 years

LOCATION: Hobart

INTAKE: February, July

CLEARLY-IN TER: 65

Tasmania has long been the major centre for exploration and research in Antarctica. This unique course provides students with knowledge, competencies, skills and awareness of a variety of subjects linked together by the common theme of Antarctic studies

ADDITIONAL PREREQUISITES

Students are encouraged to study two or more subjects from the maths and sciences.

Other specific prerequisites apply depending on unit selection.

AREAS OF STUDY

Students may choose one of the following two streams:

- Antarctic Life Science
- Antarctic Physical Sciences

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

- Meteorological technician
- Biologists – marine, plant and microbiology
- Geologist
- Glaciologist
- Physicist
- Antarctic administration and policy
- Australian Antarctic Division
- CSIRO Marine Research

APPLIED SCIENCE (AGRICULTURE)

DURATION: 3 years

LOCATION: Hobart

INTAKE: February, July

CLEARLY-IN TER: 65

Gives students an opportunity to acquire knowledge and skills suited to the needs of a professional agriculturalist. Studies centre on crop production efficiency, environmental management and new technologies.

AREAS OF STUDY

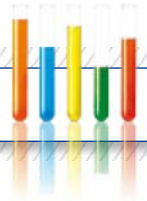
- Animal science and principals of breeding
- Agricultural production and technology
- Crop protection and microbiology
- Soil science
- Crop production

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

- Agribusiness and forestry
- Service consultancy and business management
- Government agencies and private sector
- Agricultural development and food production



My choice of career ADAM POULTON

**Business Owner,
Eden Aquariums**

One of the highlights of Adam Poulton's studies in aquaculture at UTAS was having ready access to the international expertise of teaching staff. "Lecturers in the School of Aquaculture are involved in world-class research. It was quite amazing to come to university from Year 12 and have contact with such knowledgeable people."

After graduating from a bachelor degree in aquaculture, Adam was then inspired to take his own skills into an international arena. He spent several years working in London in the aquarium industry, applying his knowledge in a business context.

Subjects in his program such as Business Management and a compulsory work experience unit gave Adam a vocational focus for the strong science base underpinning the aquaculture degree. "The field trips were a really useful part of the course as well – we visited an ornamental fish farm, oyster farms and aquaculture industry sites all over the state."

These days, Adam is based back in the north of Tasmania and manages his own thriving aquarium business, involving coldwater, tropical and marine fish.

AQUACULTURE

DURATION: 3 years

LOCATION: Launceston

INTAKE: February, July

CLEARLY-IN TER: 65

The University of Tasmania's School of Aquaculture provides the most comprehensive training in aquaculture available in Australia. This course covers aquaculture health, nutrition, physiology and technology and the farming of fish, crustaceans and molluscs.

ADDITIONAL PREREQUISITES

Recommended subjects: Chemistry and Maths

AREAS OF STUDY

- General science
- Biology
- Chemistry
- Aquaculture technology
- Ecology
- Physiology
- Nutrition
- Husbandry
- Professional placement

FURTHER STUDY OPTIONS

Honours, Masters, PhD

CAREER OPPORTUNITIES

- Research
- Commercial aquaculture
- Aquaculture management
- Husbandry-related programs
- Farm workers
- Farm managers
- Policy makers and advisors
- Aquaculture consultants
- Hatchery operators
- State fishery laboratories
- Live-fish export trade
- Public aquaria
- Aquatic biologist

ARCHITECTURE (MASTERS)

DURATION: 2 years

LOCATION: Launceston

INTAKE: February, July#

Aims to bring together the arts, sciences, technology and environmental awareness by involving everything that influences the way in which the built environment is planned, designed, made, used and maintained.

ADDITIONAL PREREQUISITES

Bachelor of Environmental Design (or equivalent 3-year undergraduate degree), plus interview and portfolio

AREAS OF STUDY

- Design studio building technology
- Architectural theory
- Professional studies, including office and project management, and architects' responsibilities to clients, society and the profession

FURTHER STUDY OPTIONS

PhD

CAREER OPPORTUNITIES

- Private architectural practice
- Government architectural offices
- Local government
- Performing arts
- Universities
- Large companies
- Commercial, residential, retail and civic building design
- Client brief writing
- Urban design
- Planning appeal submissions, representation and assessment
- Stage set and exhibition design
- Property and construction management

Graduates are eligible for corporate membership of the Royal Australian Institute of Architects (RAIA) and for registration by the Australian Board of Architects following an approved practical experience program and a pass in the Architectural Practice examination.



BIOTECHNOLOGY

DURATION:	3 years
LOCATION:	Hobart
INTAKE:	February, July#
CLEARLY-IN TER:	65

Encompasses a broad range of areas that use living organisms for the benefit of humankind. The course gives students the necessary knowledge, skills, competencies and tools in preparation for employment in the expanding biotechnology sector.

ADDITIONAL PREREQUISITES

Chemistry and Maths Applied

FURTHER STUDY OPTIONS

Honours, Masters, PhD

AREAS OF STUDY

- Gene technology
- Medical research
- Tissue culture
- Agriculture
- Horticulture
- Aquaculture
- Bioinformatics
- Bioprospecting

CAREER OPPORTUNITIES

- Gene therapy, tissue engineering of replacement organs
- Plant breeding to improve resistance
- Food manufacturing
- Production of chemicals and solvents
- Biological recovery of heavy metals from mine tailings
- Bioremediation of soil and water polluted with toxic chemicals

COMPUTING

DURATION:	3 years
LOCATION:	Hobart, Launceston, Cradle Coast*†
INTAKE:	February, July
CLEARLY-IN TER:	65

Provides a solid foundation in computing as well as focusing on the fast-developing areas of multimedia and the internet, mobile and ubiquitous computing, software engineering, artificial intelligence, systems and networks, and information security.

FURTHER STUDY OPTIONS

Honours, Masters, PhD

AREAS OF STUDY

- Systems and networks
- Artificial intelligence
- Software engineering
- Bioinformatics
- Health informatics
- Programming
- Multimedia and internet technology
- Mobile computing
- Security in distributed systems

CAREER OPPORTUNITIES

- Programming development
- Intelligent system design
- Web design
- Network security
- Software design
- Human computer interaction
- Computer graphics and animation
- Network administration
- E-health

ENGINEERING

DURATION:	4 years
LOCATION:	Hobart
INTAKE:	February, July#
CLEARLY-IN TER:	70

Engineering is the application of science to the design, building and use of machines and constructions.

ADDITIONAL PREREQUISITES

Maths Methods or higher and Physical Sciences

FURTHER STUDY OPTIONS

Honours, Masters, PhD

AREAS OF STUDY

Years 1 and 2 provide a sound basis in the physical sciences, mathematics and basic engineering. In Years 3 and 4 students concentrate on specific theory and practice in their chosen specialised engineering field, either:

- Civil engineering
- Civil/mining engineering
- Computer systems engineering
- Electrical power engineering
- Electronics and communications engineering
- Mechanical engineering
- Mechatronic engineering

CAREER OPPORTUNITIES

- Micro electronics
- Manufacturing
- Civil construction
- Computer systems
- Risk engineering



ENVIRONMENTAL DESIGN

DURATION:	3 years
LOCATION:	Launceston
INTAKE:	February, July [#]
CLEARLY-IN TER:	65

Prerequisite degree for students wishing to undertake Architecture. The course aims to provide techniques in communication, technology and design to enable students to gain entry into courses in the fields of architecture, town planning and related design areas.

FURTHER STUDY OPTIONS

Honours, Master of Architecture, PhD

AREAS OF STUDY

- Design
- Ecologically-sustainable design
- History and theory
- Building technology
- Computer-aided design
- Designing with wood
- Landscape architecture
- Learning by making
- Model making

CAREER OPPORTUNITIES

- Architectural practice
- Higher degree studies in urban design and architecture
- Interior design, graphic design and landscape architecture
- Service in local government

ENVIRONMENTAL SCIENCE

DURATION:	3 years
LOCATION:	Launceston
INTAKE:	February, July
CLEARLY-IN TER:	65

Combines the disciplines of biology, chemistry, ecology and physical geography. Looks at management and remediation of both the natural environment and the urban and impacted environments.

ADDITIONAL PREREQUISITES

Chemistry and Maths Applied

FURTHER STUDY OPTIONS

Honours, Grad Dip, Master of Environmental Management, PhD

AREAS OF STUDY

- Aquatic science
- Botany
- Chemical monitoring
- Earth sciences (geology)
- Environmental management
- Ecology
- Geography
- Statistics
- Zoology

CAREER OPPORTUNITIES

- Environmental impact assessment
- Natural resource management
- Water or waste water management
- Pollution controller
- Environmental policy analysis/ implementation
- Environmental education or communication

FOREST SCIENCE[°]

DURATION:	3 years
LOCATION:	Hobart, Melbourne
INTAKE:	February, July
CLEARLY-IN TER:	65

A joint program with the University of Melbourne which is designed to give students a broad understanding of every aspect of forestry and forest industries, from soils and tree physiology to commercial forest management and conservation. Students enrol at the University of Tasmania for the first two years and then move to the University of Melbourne's dedicated forestry campus at Creswick (90 minutes north-west of Melbourne) to study forest science and forestry subjects.

ADDITIONAL PREREQUISITES

Chemistry and Maths

FURTHER STUDY OPTIONS

Honours, Masters, PhD

AREAS OF STUDY

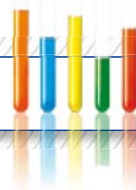
The course involves studying basic science subjects and numerous field and laboratory studies. Students gain expertise in areas such as:

- Sustainable management of timber, water and other forest products
- Recreation
- Farm forestry
- Forest biotechnology
- Conservation of flora and fauna.

Also included is a minimum of one 2-week field camp and 12 weeks of compulsory practical forestry work (during vacations), which offers more understanding of life in the field and an awareness of issues unique to the industry.

CAREER OPPORTUNITIES

- Forest and environment management
- Research and development
- Ecological consulting
- Timber management and processing
- Land-care and wildlife conservation



MARINE SCIENCE

DURATION: 3 years

LOCATION: Hobart

INTAKE: February, July

CLEARLY-IN TER: 65

Marine Science is a rich and diverse discipline, which emphasises an interdisciplinary approach that includes elements of biology, chemistry, physics, geology, oceanography, mathematics and other sciences.

ADDITIONAL PREREQUISITES

Biological stream: Chemistry

Physical stream: Maths Methods or higher, Physics and Chemistry

FURTHER STUDY OPTIONS

Honours, Masters, PhD

AREAS OF STUDY

Students choose one of two streams:

- Biological Sciences – focusing on plant science and zoology with a focus on the biology and ecology of marine and freshwater organisms and their dynamics in marine and freshwater ecosystems
- Physical Sciences – focusing on maths, physics and earth sciences, and allowing students to specialise in a range of sub-disciplines, including physical oceanography, chemical oceanography or marine geosciences.

CAREER OPPORTUNITIES

- Marine and freshwater research
- Biological, chemical or physical oceanography
- Managing commercial and sport fisheries
- Marine ecosystems, climate research and impact assessments
- Environmental conservation
- Management of marine coastal resources

NATURAL ENVIRONMENT & WILDERNESS STUDIES

DURATION: 3 years

LOCATION: Hobart, Launceston, Cradle Coast*†

INTAKE: February, July

CLEARLY-IN TER: 65

Equips students with a wide interdisciplinary understanding of natural environments and wilderness, and the knowledge, skills and techniques useful in activities related to natural environments and wilderness.

ADDITIONAL PREREQUISITES

Students are encouraged to study two or more subjects from the maths and sciences.

Other specific prerequisites apply depending on unit selection.

FURTHER STUDY OPTIONS

Honours, Masters, PhD

AREAS OF STUDY

- Communication skills, data collection skills, analytical skills, information retrieval, manipulation and presentation skills
- Ecosystem processes
- Society and nature
- Managing natural environments and wilderness

CAREER OPPORTUNITIES

- Nature-based and eco-tourism industries
- Parks planning and management
- Land and heritage management
- Environmental organisations and consultancies
- Resource-based industries such as forestry
- Environmental protection

PSYCHOLOGY

DURATION: 4 years

LOCATION: Hobart, Launceston, Cradle Coast*†

INTAKE: February, July

CLEARLY-IN TER: 90⁻

Psychology is the scientific study of human behaviour, experiences and mental processes, and the application of that body of knowledge to help individuals and groups in clinical settings, education, employment, and the community.

ADDITIONAL PREREQUISITES

As entry to the Bachelor of Psychology is competitive, students are advised to also list alternative course preferences which include Psychology as a study option (e.g. Arts, Business, Science) when applying.

AREAS OF STUDY

Students planning a career in psychology need to complete an accredited 4-year sequence in psychology which can be undertaken either as an accredited major within the Arts, Science or Business degrees, followed by honours in psychology, or through the specialised 4-year Bachelor of Psychology program. These programs provide academic preparation in the scientist/practitioner model, and equip graduates with the knowledge and skills for entry to professional training programs and for roles as provisionally registered psychologists.

Psychology can also be studied in combination with a range of other disciplines in degree programs such as social science, health science, computing and medical research. The choice of degree will depend primarily on the other subjects students wish to study. Graduates from other disciplines can study psychology through the Graduate Diploma of Science.



FURTHER STUDY OPTIONS

Honours, Grad Dip, Masters, PhD

CAREER OPPORTUNITIES

Graduates with a psychology major find employment in the public sector and in business, in areas such as:

- Health and human services
- Education
- Social services and community welfare
- Employment and training
- Management and marketing

Career opportunities for graduates with fourth year and postgraduate training in psychology include:

- Clinical psychology
- Educational psychology
- Rehabilitation and health psychology
- Organisational psychology
- Forensic psychology
- Sport psychology
- Research psychology
- Forensic psychology
- Sport psychology
- Research psychology

REGIONAL RESOURCE MANAGEMENT^o

DURATION: 3 years

LOCATION: Cradle Coast

INTAKE: February, July

CLEARLY-IN TER: 65

Aimed at a broad understanding of the critical role that resource management – both human and natural – plays in a region. It provides graduates with skills in data analysis and policy making, which are crucial in the regional resource and enterprise management areas.

AREAS OF STUDY

Along with core units in Regional Science, students choose one of the two following specialisations:

- Natural Resource Management
- Business Enterprise and Innovation.

During Year 2, all students undertake one workplace unit.

CAREER OPPORTUNITIES

This course enhances employment opportunities for students wishing to stay within the Cradle Coast region, and advances the prospects of those who choose to leave.

Graduates will be competitive applicants in a wide range of fields, for example:

- Strategic planner
- Project leader
- Policy maker
- Entrepreneur
- Executive officer
- Researcher
- Consultant
- Analyst
- Business manager

SCIENCE

DURATION: 3 years

LOCATION: Hobart, Launceston[#], Cradle Coast^{**†}

INTAKE: February, July

CLEARLY-IN TER: 65

A multi-disciplined degree which provides students with opportunities to acquire knowledge, attitudes and skills in a range of basic physical, computational, mathematical, earth and life sciences areas.

ADDITIONAL PREREQUISITES

Students are encouraged to study two or more subjects from the maths and sciences.

Other specific prerequisites apply depending on unit selection.

AREAS OF STUDY

Students are able to select studies from the following areas:

- Aquaculture (L)
- Biochemistry (H)
- Chemistry (H,L)
- Computer Science (H,L)
- Economic Geology (4-year special program) (H)
- Forest Ecology (4-year special program) (H)
- Geography & Environmental Studies (H,L)
- Geology (earth sciences) (H)
- Mathematics (H)
- Microbiology/Immunology (H)
- Natural Environment & Wilderness Management (4-year special program) (H)
- Physics (H)
- Plant Science (H)
- Psychology[^] (H,L)
- Zoology (H)

In addition, a major may be completed from another field of study, e.g. Accounting or Analytical Economics.



FURTHER STUDY OPTIONS

Honours, Grad Cert, Grad Dip, Masters, PhD

CAREER OPPORTUNITIES

Being a science graduate opens up opportunities for being creative and to contribute to Australia's wealth and wellbeing. Science graduates pursue a wide range of careers in areas such as:

- Administrative and managerial roles
- Botanist
- Plant scientist
- Chemist
- Researcher
- Environmental monitor
- Scientist
- Information technology
- Teacher
- Management of natural resources
- Zoologist

HONOURS

Students wishing to undertake specialised study in the areas listed should apply for the Bachelor of Science and advise their interest at enrolment time. Upon completion of the Bachelor of Science (within which they will have completed a specialised 3-year major) students can apply to the BSc(Hons) in their area of specialisation. The BSc(Hons) aims to provide advanced training in the major area of the student's undergraduate degree, and opportunity for training in research, to prepare candidates for further research study, e.g. MSc and PhD programs and employment

in research organisations, as well as provide in-depth knowledge in a single area of science.

ADVANCED HONOURS PROGRAM

Within the Bachelor of Science a special program has been created to recognise high-achieving students. Entry requires a TER score of at least 90, and to maintain their place in the direct entry program students must achieve the Dean's Roll of Excellence each year.

Students who participate in the Advanced Honours program complete all the normal Bachelor of Science and Bachelor of Science (Honours) requirements but will be provided with opportunities to participate in various activities and seminars (normally only available to honours year students), and will be able to develop associations with academic staff in their major discipline areas. To challenge and engage outstanding students, at least one research-based unit will need to be completed, normally in Year 3.

SPECIALISED HONOURS PROGRAMS

A number of honours programs in science are available, providing a 4-year program of study in one of the following areas:

- Economic Geology
- Forest Ecology
- Natural Environment & Wilderness Management.

Students complete a 3-year Bachelor of Science, comprising a mix of compulsory and optional units in their chosen area of specialisation, followed by an honours year.

SCIENCE (ECONOMIC GEOLOGY)

Location: Hobart

Additional prerequisites:

As for Bachelor of Science. Other specific prerequisites apply depending on unit selection.

Areas of study:

Students learn about the geological processes that lead to the formation of ore deposits, and how to explore for new deposits using geochemistry and geophysics.

Career opportunities:

The course is accredited by the Australasian Institute of Mining and Metallurgy (AIMM) and is suitable for students seeking careers in mineral exploration or mining geology. Some examples of the projects which economic geologists are involved in are:

- Planning, conducting and interpreting geological surveys
- Assessing the economic worth of mineral commodities
- Consulting to the mining industry.

SCIENCE (FOREST ECOLOGY)

Location: Hobart

Additional prerequisites:

Maths Applied or higher

SAMPLE BACHELOR OF SCIENCE COURSE STRUCTURE – MAJORS IN ZOOLOGY AND PLANT SCIENCE

Year 1	Year 2	Year 3
Biology Of Animals (Zoology Core)	Animal Evolution & Ecology (Zoology Core)	Reproduction & Endocrinology for Conservation (Zoology Major)
Ecology (Zoology Core)	Functional Biology Of Animals (Zoology Core)	Antarctic Ecology (Zoology Major)
Biology Of Plants (Plant Science Core)	Tasmanian Fauna (Zoology Elective)	Evolutionary Biology & Biogeography (Zoology Major)
Cell Biology, Genetics & Evolution (Plant Science Core)	Evolution, Ecology & Society (Zoology Elective)	Fisheries & Wildlife Management (Zoology Major)
Chemistry 1a (Chemistry Core)	Plants In Action (Plant Science Core)	Cell Biology (Plant Science Major)
Chemistry 1b (Chemistry Core)	Genetics & Evolution (Plant Science Core)	Aquatic Botany (Plant Science Major)
Science or Non-Science Elective	Science or non-Science Elective	Plant Biodiversity (Plant Science Major)
Science or Non-Science Elective	Science or non-Science Elective	Plant Ecology (Plant Science Major)



Areas of study:

Tasmania is a perfect location to study forest ecology – with access to open dry sclerophyll woodland, tall wet sclerophyll forests, rainforests and montane forests. Areas of study include:

- Plant Ecology
- Plant Science
- Genetics
- Molecular Evolution
- Quantitative Methods in Biology

Career opportunities:

- Forest botanist or ecologist
- Silviculture
- Forest survey, assessment and measurement
- Forest management

SCIENCE (NATURAL ENVIRONMENT & WILDERNESS MANAGEMENT)

Location: Hobart

Additional prerequisites:

As for Bachelor of Science. Other specific prerequisites apply depending on unit selection.

Areas of study:

The course includes the following potential study areas:

- Ecosystem pattern and process
- Ecosystem and wilderness management
- Cultural heritage management in natural areas
- Information systems including remote sensing and spatial data manipulation
- Interpretation of environmental values
- Philosophy, politics, law and administration of natural environment and wilderness.

Career opportunities:

- Local, state and federal government agencies
- Nature-based and eco-tourism industries
- Natural area interpretation
- Environmental organisations
- Resource-based industries such as forestry

SURVEYING & SPATIAL SCIENCES

DURATION: 4 years

LOCATION: Hobart, Launceston*

INTAKE: February

CLEARLY-IN TER: 65

Prepares graduates for the rapidly growing spatial information industry, which includes surveying and mapping. Involves an integrated approach to the science and technologies of measurement, mapping, analysis and visualisation of data.

ADDITIONAL PREREQUISITES

Maths Methods and Physical Sciences

FURTHER STUDY OPTIONS

Honours, Grad Cert, Grad Dip, Masters, PhD

AREAS OF STUDY

In the final year of the course, students select from one of two specialisations:

- Spatial information systems
- Land surveying

CAREER OPPORTUNITIES

- Geographic information systems (GIS)
- Remote sensing and photogrammetry
- Geodesy, GPS
- Cartography and mapping
- Land and resource management
- Engineering and hydrographic surveying

TECHNOLOGY

DURATION: 1.5 years

LOCATION: Hobart

INTAKE: February

CLEARLY-IN TER: 65

Aims to equip students with the skills required to become engineering technologists. It is not generally intended that entry be from Year 12.

SPECIAL REQUIREMENTS

TAFE Advanced Diploma in an appropriate area (e.g. Civil, Electrical or Mechanical).

AREAS OF STUDY

- Maths
- Basic sciences
- Engineering sciences
- Management

FURTHER STUDY OPTIONS

Bachelor of Engineering

CAREER OPPORTUNITIES

Engineering technologists will work in similar environments to professional engineers, with training allowing them to perform many tasks in:

- Design
- Construction
- Manufacturing
- Maintenance

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