Dates to Diarise in Term 3

- University / TAFE Open Days 2015 – throughout August
- Year 12 VTAC applications – throughout August and September

**Bachelor of Pharmacology and Toxicology at Griffiths University**

Griffith University offers a 3-year Bachelor of Pharmacology and Toxicology. This degree provides a pathway to a career in pharmacology, toxicology or drug research, pharmaceutical, biotechnology and other health industries.

The degree's focus on pharmacology may be of particular benefit to those students considering continuing their study with a postgraduate degree in an area such as pharmacy, medicine, dentistry or medical research.

Students learn through extensive hands-on experience in state-of-the-art facilities including formulation, pharmacology and analytical laboratories.

Students can select one major from the following options:

- Applied Pharmacology;
- Chemical and Environmental Toxicology;
- Diagnostics;
- Sales and Marketing;
- Pharmaceuticals.

Besides English and Maths, students will also need to have completed Biology, Chemistry or Physics in their VCE. Find out more at *Pharmacology and Toxicology*

**Are you thinking about teaching?**

Students are reminded of the ‘At Monash’ Seminar series focusing on the Bachelor of Education (Honours) being held in early September commencing at 6.30pm.

Clayton – Tuesday 1 September
Berwick – Thursday 3 September
Courses in Paramedicine

Deciding to become a paramedic is a life-changing decision. For many the first decision they want to make is to decide what type of paramedic training they need. There are different types of paramedics – visit Types of Paramedics. Being a paramedic is about a lot more than lights and sirens and rushing to help someone in need. Paramedics perform clinical procedures, administer drugs, maintain patient records and decide the most appropriate medical facility to take someone to. It is a requirement of Ambulance Victoria for applicant’s applying for the Graduate Ambulance Paramedic program, to be currently undertaking or to have graduated from a recognised Ambulance qualification at an Australian or New Zealand University. The university course is usually a 3-year and teaches students the fundamentals of their medical training including anatomy, biology and physiology. The following Victorian universities offer courses that are recognised by Ambulance Victoria:

- Australian Catholic University
- Monash University
- La Trobe University
- Victoria University

Find out more by browsing the Ambulance Victoria website at Paramedics

University of Wollongong Bachelor of Pre-Medicine, Science and Health

The University of Wollongong (UOW) offers a 3-year Bachelor of Pre-Medicine, Science and Health as a pathway to graduate medical studies. The course is designed to give high-achieving students an excellent preparation for graduate medical studies at UOW or other institutions. The strengths of the course are:

- A Foundations for GAMSAT subject in first year
- A choice of one of nine possible majors or minors in science or health that lead to other postgraduate study and career paths whilst allowing students to concurrently pursue entry to graduate medical studies
- Access to enrichment and professional development activities to enhance their interpersonal skills, demonstrate their ‘service to society’ and develop an impressive Portfolio which is required on application to graduate medical studies at UOW
- A core capstone subject in third year - Integrated Science in Medicine - delivered in the same case-based learning format used by graduate medical schools, it brings together all earlier learnings through clinical scenarios related to medicine and health
- Guaranteed interviews for the top 12 performing domestic students and the top 12 performing international students who meet the admission criteria for the UOW Bachelor of Medicine Bachelor of Surgery (MBBS) at the Graduate School of Medicine (GSM)
Applicants need an indicative ATAR of 95 and have studied mathematics and chemistry, with biology being recommended. Students must apply through www.uac.edu.au and the UAC course code is 757500. The University of Wollongong (UOW) has an early admissions program allowing students to earn a place in some UOW degrees before sitting their final exams and this course is one of them - UOW Early Admissions. Applications for the Early Admissions Program are open and close on Friday 28 August 2015 at 5.00pm.

Find out more about eligibility for the Bachelor of Pre-Medicine, Science and Health at Bachelor of Pre-Medicine, Science and Health at UOW. For frequently asked questions about this degree, visit FAQs about Bachelor of Pre-Medicine, Science and Health

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**Associate Degree in Education**

The Deakin University **Associate Degree of Education** is a two year, full time program specifically designed for students who would benefit from a supported entry to tertiary study. The course provides a pathway into university and articulates into the Bachelor of Education (Primary) with up to 18 months credit for prior learning. The Associate Degree may also be taken as a stand-alone qualification. This course is targeted at students who do not satisfy the usual university entry requirements including students who have completed Year 12 but have achieved an ATAR score which is insufficient to gain normal entry into the bachelor degree. This is an excellent option for some students and students are encouraged to browse the following links to find out more:

[Associate Degree in Education](https://www.deakin.edu.au/courses/associate-degree-education)
[Associate Degree in Education PDF](https://www.deakin.edu.au/content/dam/deakinweb/education/undergraduate/courses/infographics/associate-degree-education.pdf)

Applications are to be made directly to Deakin University - [Apply](https://www.deakin.edu.au/apply)

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**Work Experience Opportunities 2016**

Zoos Victoria has developed a secondary school Work Experience program to inspire the next generation of youth to be inspired to work with wildlife. Each year, Zoos Victoria selects a limited number students as part of their work experience program to gain experience at one of Victoria’s three zoos; Healesville Sanctuary, Melbourne Zoo or Werribee Open Range Zoo.

The program is an all-weather, full day work program (start and finish times vary per property). Successful students will be required to perform physically demanding manual labour duties under supervision.


Applications close on Friday 18 September 2015.
Career in Urban and Regional Planning

Urban and regional planners (often also called Town Planners) develop policies and plans for the use of land and resources. They advise on the economic, environmental, social and cultural needs of particular localities or regions as they relate to the built environment and the community. They also work on large-scale projects such as new suburbs, towns, industrial areas, commercial and retail developments, urban renewal projects and transportation links.

Urban and regional planners may perform the following tasks:

- develop long-range objectives to cope with growth and change, in consultation with affected communities
- perform surveys and site inspections
- compile and analyse information on physical, economic, social, legal, political, cultural and environmental factors which affect land use
- discuss plans with local communities, private companies and government organisations
- consider new developments or re-developing areas and advise state and local governments on planning issues for projects such as new suburbs, transportation links, industrial estates, retail complexes and housing developments
- draw up plans for development or re-development and evaluate proposals in terms of benefits and costs, recommending how schemes can be carried out
- prepare urban and rural subdivision plans, taking into account various land uses, including residential, public open space, schools and shops
- prepare and coordinate economic, social and environmental impact studies

Planning is a broadly based discipline and it is possible to specialise in a wide range of fields, including strategic planning, urban design, environmental impact assessment, residential planning, commercial and industrial planning, heritage planning, tourism planning and social planning.

Successful planners need to –

- Be interested in social, economic, environmental and cultural issues
- Have good oral and written communication skills
- Be able to produce detailed and accurate work
- Have good analytical and problem-solving skills

To become an urban and regional planner students usually have to study urban, regional, community and/or environmental planning at university. Students may also consider other degrees that emphasise related fields of architecture, economics, environmental management or science, geography and sociology.

Entry to these courses requires students to attain their VCE and a year 12 maths is highly recommended.

It is important to note that degree studies in urban and regional planning are necessary for professional recognition by the Planning Institute of Australia (PIA).
Visit Urban and Regional Planner for further information.

Victorian universities that offer courses in Urban and Regional Planning include –

**Deakin University**
Bachelor of Planning (Honours)
Planning

**La Trobe University**
Bachelor of Urban, Rural and Environmental Planning
Urban, Rural & Environmental

**RMIT University**
Bachelor of Social Science – Environment
Bachelor of Environmental Science
Bachelor of Urban and Regional Planning
Environment and Planning

**University of Melbourne**
Bachelor of Environments
Environments - Urban Design and Planning

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**News from the University of Tasmania (UTAS)**

- **Relocation Scholarship**

The University of Tasmania (UTAS) also invites the best and the brightest from across Australia to apply for a Relocation Scholarship. The scholarship is designed to encourage high achieving interstate students to study Law at the University of Tasmania by assisting with the financial costs of moving to Tasmania. The scholarship consists of a once-off payment of approximately $5,000 and is awarded automatically to eligible students who accept an offer and enrol to study law at UTAS.

To be eligible to be considered for this scholarship, students must –

- Be a new/commencing University student
- Have recently completed year 12
- Have achieved an ATAR of 90 or above (or the equivalent)
- Are enrolled in a direct entry Bachelor of Laws or Combined Degree with Law at the University of Tasmania as of the applicable census date

For further information please contact the Faculty of Law Executive Officer at Kira.White@utas.edu.au or visit Law Relocation Scholarship
Alternative Pathways to Medicine

UTAS has a number of pathways to medicine including a pathway through one of the following degrees at UTAS:

- Bachelor of Biotechnology and Medical Research
- Bachelor of Health Science
- Bachelor of Biomedical Science
- Bachelor of Science
- Bachelor of Pharmacy
- Bachelor of Environmental Science

Each year UTAS gives MBBS entry to students who have studied one year full-time in one of these degrees at the University of Tasmania. To be considered for this option students will need to apply into the MBBS demonstrating a distinction average (70%) achievement in one of the degrees listed, a competitive UMAT score and completion of MBBS pre-requisite subjects. This option is not available to international applicants. Students interested in this option will need to put one of these degrees down as their second or third preference when applying for the MBBS.

To find out more about this and other pathways visit Pathways to Medicine at UTAS.

Applications to the University of Tasmania for students commencing in Semester 1, 2016 are now open! Visit UTAS Admissions to find out more!

Difference between Electrical and Mechanical Engineering?

Students often ask what the difference is between electrical engineering and mechanical engineering. There are many explanations regarding the difference and the summaries below should provide some clarification.

Actually Mechanical Engineering and Electrical Engineering are near polar opposites in the engineering world. Mechanical Engineering is based on the mechanics field of physics, while Electrical Engineering is based on the electricity and magnetism field of physics. I have made things quite simple here. If you love solving problems in mechanics portion of physics then definitely mechanical engineering is for you and if you feel attraction in solving problems in electricity and magnetism then electrical engineering can be a right choice for you. (Vikash Gait)

Mechanical Engineering

Mechanical engineers plan, design and oversee the development, installation, operation and maintenance of machinery. They conduct research to solve practical engineering problems and improve efficiency.  

(Sourced from the Job Guide - Job Guide)
In fact, it has to do with the design of any mechanical system and the assembly of different mechanisms to form a machine. This can be combined with other elements, such as the study and effect of heat in motion (Thermodynamics), the flow and application of compressible and incompressible fluid (Fluid Mechanism), mechanical design and computer/electronics engineering with the application of automatic control. (Mechatronics) etc.

**Electrical Engineering**

*Electrical engineers design, develop and supervise the manufacture, installation, operation and maintenance of electrical systems. They work on systems for the generation, distribution, utilisation and control of electric power. They also work on electronic systems used for computing, communications and other industrial applications.*

*(Sourced from the Job Guide - Job Guide)*

Electrical Engineering involves the design and study of electronics, power, and electrical systems. Electrical Engineering deals with the problems associated with large-scale electrical systems such as power transmission and motor control. So, Electrical Engineers are usually concerned with using electricity to transmit energy.

*So, a simple analogy: being a mechanical engineer you will learn to build a car’s body and engine, while being an electrical engineer you will be able to handle/build/manage the car’s battery.* (Vikash Gait)

Read more at [Mechanical vs Electrical Engineering](#)

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**NIDA**

**National Institute of Dramatic Art (NIDA)**

The [National Institute of Dramatic Art (NIDA)](http://www.nida.gov.au) is an internationally recognised institute that offers education and training in a range of courses including *acting, writing, staging, movement, voice, costume, and production design*. All application, audition, interview and project requirements for NIDA’s tertiary programs are now available on the NIDA website. Visit [NIDA](http://www.nida.gov.au) to learn more!

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**Puggy Hunter Memorial Scholarship Scheme**

The [Puggy Hunter Memorial Scholarship Scheme](http://www.pughunter.com) is available to encourage and assist Aboriginal and/or Torres Strait Islander students who are studying a health-related course – in one of the following disciplines:

- allied health
- dentistry/oral health
- medicine
- midwifery
- nursing
The scholarships are worth up to $7,500 per year for part-time study, and $15,000 per year for full-time study for the normal duration of the course. These are competitive scholarships and will be awarded on the recommendation of the independent selection committee whose assessment will be based on how applicants address the questions in the application.

Applications are now open and will close on 12 October 2015. Late applications will not be accepted under any circumstances. Visit **Puggy Hunter Memorial Scholarship Scheme** to find out more and to apply.

### Upcoming Open Days 2015

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<th>INSTITUTION</th>
<th>DATE</th>
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<th>CONTACT DETAILS</th>
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<tr>
<td>Australian Catholic University</td>
<td>Sun 30 August</td>
<td>10am – 3pm</td>
<td>1300 ASK ACU&lt;br&gt;Email: <a href="mailto:opendayvic@acu.edu.au">opendayvic@acu.edu.au</a>&lt;br&gt;www.acu.edu.au/openday</td>
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<td>Ballarat Campus</td>
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<tr>
<td>Federation University of Australia</td>
<td>Sun 30 August</td>
<td>10am – 3pm</td>
<td>1800 333 864&lt;br&gt;<a href="http://federation.edu.au/future-students/study-at-feduni/open-day">http://federation.edu.au/future-students/study-at-feduni/open-day</a></td>
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<td>Mount Helen Campus; SMB</td>
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<td>Holmesglen Institute</td>
<td>17 September</td>
<td>10am – 6.30pm</td>
<td>1300 MY FUTURE&lt;br&gt;<a href="http://www.holmesglen.edu.au/open">http://www.holmesglen.edu.au/open</a></td>
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<td>Open Thursday’s – all campuses</td>
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<td>19 November</td>
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<td>La Trobe University &amp; La Trobe Melbourne</td>
<td>Fri 28 August</td>
<td>4pm – 7pm</td>
<td>1300 135 045&lt;br&gt;<a href="http://www.latrobe.edu.au/openday">http://www.latrobe.edu.au/openday</a></td>
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