



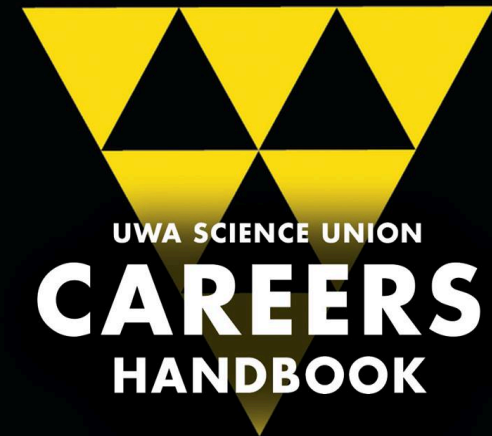
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Fraser's GAMSAT Tuition is a personal GAMSAT preparation company, focused on holistic, individual tutoring for its students.

<http://frasergamsat.com.au/>



WWW.SCIENCEUNION.ORG.AU

MESSAGE FROM THE EDITOR

“Whether or not you become a scientist, the basic understanding of scientific reasoning, methodology and principles that you obtain from your first degree in science will be of inestimable value to you.”

***Justice Robert French
Chief Judge of the High Court of Australia
Science Graduate of UWA***

Welcome to the UWA Science Union Careers Handbook for 2016. The UWA Science Union is the second oldest faculty society at UWA and represents all students studying science at UWA. We strive to offer students quality opportunities in both social and education contexts and we are committed to student representation, improving student engagement at UWA and increasing the vibrancy of life on campus.

This Handbook is useful for students at all stages of their studies; from helping you pick the right majors, to vital information on applying for vacation and graduate roles, and everything in between.

At today's Careers Fair, please take the opportunity to speak to every representative, regardless of your field of study. Studying science at UWA opens the door to many pathways, even those unexpected. The event provides the perfect opportunity for you to network and have your questions answered. Each representative will have a unique experience to share regarding the journey they travelled to get to where they are today.

The UWA Science Union is committed to ensuring students get the most out of their UWA experience and are confident stepping out into the workplace. I would like to thank Charlotte Dale and Shindanai Moor, 2016 Careers Officers, and Jonathan Israel, 2016 Sponsorship Officer, for their help in compiling this document and putting the Fair together. I would also like to thank our sponsor, Fraser's GAMSAT Tuition for their continued loyal support to the Science Union and its mission on campus.

I strongly recommend that you, the reader, get involved in University life for the remainder of your time here. Science Union holds many events through the year, providing opportunities to not only have fun and meet new people, but also help develop the knowledge and skill to pursue your career. Our events are available on our website and you can find out more about us through our Facebook page (UWA Science Union).

If you have any questions about the contents of the handbook, or about the UWA Science Union, please do not hesitate to contact myself or anyone from the SU team!

All the best for your studies and beyond,

Stephanie Munro

External Affairs Vice-President

su-vp-external@guild.uwa.edu.au

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FIND US ONLINE AT SCIENCEUNION.ORG.AU

TIMELINE

FIRST YEAR

Congratulations on making it through high school and successfully enrolling in science at UWA! Hopefully your year 12 subjects gave you some ideas about the topics you enjoy, and you have enrolled in units that reflect your interests. Whilst you still have plenty of time left at university, it's never too early to start exploring career pathways. Trust us, we all wish we'd pursued something earlier than we did! Here are some ways you can get a head start in pursuing your dream career:

- Start brainstorming your interests/career prospects
- Make sure you're enrolled in the correct degree and units, and have a rough plan for the next few years
- Start researching a wide range of career pathways and make sure you're on track to meet any prerequisites
- Start looking into work experience and vacation work positions – finding research and internships early is imperative!
- Get involved in extra-curriculars! Consider joining a sports club, committees, or volunteer. It looks great on your resume, and is a great way to make new friends!

SECOND YEAR

You're halfway through your degree, so its time to start thinking seriously about what career pathways you might want to pursue! Start making the most of the resources available to you, and gather up some detailed information regarding graduate employment or further studies. Make sure you are on track to meet any requirements set by employers or universities. Remember, some graduate courses may require additional test scores (e.g. GAMSAT for Medicine) or a portfolio.

Keep in mind the following things as you head towards your third and final year:

- Start to build up a professional network. Knowing people in the industry will help you gain graduate employment and access to research projects. Many clubs on campus (including the Science Union) run networking events to give students the opportunity to mingle with corporate representatives. Similar events are also run by the UWA Careers Centre. The UWA Careers Centre also runs a mentoring program, which is a fantastic way to meet industry professionals.
- Begin to narrow down your list of possible careers. Although having more than one option is advisable, you want to remain focused and not spread yourself too thin. Applying for graduate positions can be lengthy and tiring, and you want to have enough time to put forward the best application possible. If you're having trouble finding direction, try speaking to the career advisors at the UWA Careers Centre.
- Make sure to research the application process involved for the jobs you are interested in. Some may require you submit applications at the start of your final year, a reality many students don't realise until it's too late.
- Start to develop your job application skills. Start working on things like your interview skills and resume writing. It may seem tedious, but this is how you introduce yourself to future employers, so it's critical you stand out from the crowd.

Final Year

As you prepare for what may be your hardest year at university, make sure you don't forget about seeking graduate employment. Most jobs and postgraduate degrees require you to apply before you graduate, so it's important you keep on track with applications. While you're enjoying your last few days at the Tav or frantically cramming for your final exams, try keeping these points in mind:

- Typically, applications are open between March and October, with late applications rarely excepted. It's important you research the exact opening and closing dates for the various positions and post-graduate degrees you are looking to pursue, as they are likely to vary. Also, make sure you check the closing time as well as date, as some may be listed as Eastern Standard Time.
- When submitting applications, make sure you check whether you will be required to complete an interview, and when the interview period is. Some companies may conduct their interviews as early as April. If you know you may be required to complete an interview at a certain period of the year, make sure you haven't planned any holidays at that time as companies will rarely reschedule an interview because you are not available.
- Most importantly, don't lose sight of what you want to achieve. Whilst it can be stressful not to land your dream job straight away, always remember you can try again. Don't forget, there is always the option of further study, either at UWA or abroad, and sometimes an extra degree can give you the killer edge in a competitive job market.

NEED HELP DEVELOPING YOUR JOB APPLICATION SKILLS?
The UWA Careers Centre runs frequent resume and interview workshops. Log in to Career Hub to find out more!

SCHOOLS

SCHOOL OF AGRICULTURAL RESOURCE ECONOMICS

Useful Links

School Homepage – <http://www.are.uwa.edu.au/>

Postgrad/Graduate Profiles -
<http://www.are.uwa.edu.au/students/postgrad-profiles>

Honours Information -
<http://www.are.uwa.edu.au/courses/honours>

Postgraduate Coursework -
<http://www.are.uwa.edu.au/courses/postgrad-coursework>

Facebook - <https://www.facebook.com/AREatUWA>

SCHOOL OF ANIMAL BIOLOGY

Want to learn about sex on six legs, how amazing our brains are, what we're doing to feed the world, about altruism from social insects to magpies, our oceans from plastic pollution to predator-prey balance, shark deterrents as well as how to tell your story so people remember it? Then, the School of Animal Biology is for you!

We are internationally renowned for our study on animals in natural, laboratory and agricultural contexts. We have 5 research-intensive disciplines: Evolutionary Biology, Ecology & Conservation, Livestock Production Systems, Neuroscience and Science Communication. We host the Centre for Evolutionary Biology and have strong links with the UWA's Ocean's Institute and the Institute of Agriculture. Our academic team comprises teaching and research staff, who receive outstanding recognition for teaching innovation, and research and research-funded staff, who hold prestigious Fellowships, including a Fellow of the Australian Academy, and are heavily involved in research-led teaching.

Together with other parts of the University, we are addressing some of the world's grand challenges including: how to feed the world, climate change, biodiversity loss etc. Biologists are needed in all these crucial endeavours and we conduct research with impact, training the next generation of highly skilled biologists.

Our undergraduate students engage in a breadth of topics looking at how animals work at the molecular, genetic, cellular and organ level through to the animals themselves, their behaviour and population ecology. They learn how animals evolve and interact with their environment, are threatened by and respond to climate change, their capacity for repair after injury how and we can conserve animals and develop sustainable agriculture. Through our Science Communication program, students develop important skills in engaging with fellow scientists, the wider community, policy-makers, business and industry.

The School provides highly valued hands-on experience via practical classes and field trips encompassing the breadth of Western Australia's, as well as overseas, marine, freshwater and terrestrial environments, including through a newly launched second year unit, ANIM2209.

Also check out Field Studies in Zoology, which will be run in Coral Bay in 2016. We also have Work-Integrated Learning opportunities, placing students in workplaces outside uni.

Opportunities are available for students to progress to Masters by Coursework in Agricultural Science, Ecotourism, Biological Science (Zoology, Conservation Biology or Marine Science) and MSc by Coursework and Research in Science Communication.

We are very proud of our ~100 Honours, PhD and MSc research students who study exciting topics including behavioural ecology and evolution; green, clean and ethical animal production; wildlife conservation and population ecology; climate change adaptation; brain plasticity and recovery from neurotrauma; sensory and behavioural ecology and science communication.

After graduation, our students have diverse employment opportunities ranging from mining industry consultancy in ecological restoration, ecotourism, the health sector, science communication, biological start-up companies, and private consultancy.

W/Prof Sarah Dunlop

Head of School

Useful Links

School Homepage – <http://www.animals.uwa.edu.au/>

Honours Information -

<http://www.animals.uwa.edu.au/courses/honours>

Postgrad Coursework -

<http://www.animals.uwa.edu.au/courses/postgrad-coursework>

Research Areas - <http://www.animals.uwa.edu.au/research>

Facebook - <https://www.facebook.com/pages/UWA-School-of-Animal-Biology/717046864979743>

SCHOOL OF ANATOMY, PHYSIOLOGY AND HUMAN BIOLOGY

A hallmark of the scientific method has been logic and hypothesis testing as a way to seek truth. At a time when non-scientific disciplines, like sociology and public policy, are reinventing the scientific method as “evidence based practice” and adopting the tenets of science, there is a clear need for those trained in science to contribute to debates beyond their realm of expertise. This will fill many of you with a sense of excitement at the possibilities, but for others that sense will be tinged with trepidation wondering what your specific role in that future will be. Many of you will not end up in a “science” career, but your contribution to the important debates that society is bound to have in the next few decades will be crucial.

Your grounding in logical, structured thinking and the evidence base of knowledge will be crucial to ensure that these debates are not hijacked by vested interests and superstition.

Many of you will continue to be part of the continuing advance of science when you end up working in the field that is broadly known as science and technology. Many of our graduates occupy positions in biotech, hospitals, government departments and in industry. Some stay on at University completing Masters or PhD degrees or one of the many degrees that are now post-graduate, including medicine, dentistry, podiatry, audiology, sleep science, or dental primary and public health. Some end up in their dream job, like working at the Australian Institute of Sport. An extra year of study to obtain a Diploma of Education qualifies you as a teacher, a very rewarding career that is important in helping to shape the attitudes of future generations. But many of our graduates end up doing something completely different.

The best advice I got toward the end of my undergraduate degree came from Douglas Adams, the author *The Hitch Hikers Guide to the Galaxy*. On the cover were the large words, “Don't Panic”. That advice is salient. The rest of your life is a long time (hopefully) and you have time to decide what your role in the future of humanity will be. If the experts are right, the decision you make in the next little while is somewhat irrelevant with most graduates now changing jobs several times in a career.

I urge you to remain connected with your University via Convocation at the University level, and via alumni associations, such as our own APHB alumni group, at specific levels. Your training will allow you to celebrate rationality and everything that has improved our lot since the enlightenment. I wish you every success with your career and your path ahead.

“The important thing is not to stop questioning.” Albert Einstein

Prof Shane Maloney

Head of School

Useful Links

School Homepage – <http://www.aphb.uwa.edu.au/>

Honours Information -

<http://www.aphb.uwa.edu.au/courses/honours>

Courses - <http://www.aphb.uwa.edu.au/courses>

Research Areas - <http://www.aphb.uwa.edu.au/research>

Postgrad Profiles -

<http://www.aphb.uwa.edu.au/research/postgraduate-profiles>

SCHOOL OF CHEMISTRY AND BIOCHEMISTRY

Useful Links

School Homepage – <http://www.chembiochem.uwa.edu.au/>

Honours Information -

<http://www.chembiochem.uwa.edu.au/courses/honours>

Postgraduate Courses -

<http://www.chembiochem.uwa.edu.au/courses/postgraduate>

Research - <http://www.chembiochem.uwa.edu.au/research>

Postgrad/Graduate Profiles -

<http://www.chembiochem.uwa.edu.au/contact/postgrad-profiles>

SCHOOL OF EARTH AND THE ENVIRONMENT

Useful Links

School Homepage – <http://www.see.uwa.edu.au/>

Honours Information -

<http://www.see.uwa.edu.au/courses/honours>

Postgraduate Courses -

<http://www.see.uwa.edu.au/courses/postgrad-coursework>

Research - <http://www.see.uwa.edu.au/research>

Postgrad/Graduate Profiles -

<http://www.see.uwa.edu.au/research/postarads>

SCHOOL OF PATHOLOGY AND LABORATORY MEDICINE

Useful Links

School Homepage – <http://www.pathology.uwa.edu.au/>

Honours Information -

<http://www.pathology.uwa.edu.au/courses/honours>

Postgraduate Courses -

<http://www.pathology.uwa.edu.au/courses/postgraduate>

Research Areas - <http://www.pathology.uwa.edu.au/research>

Postgraduate Research -

<http://www.pathology.uwa.edu.au/courses/postgraduate/research>

SCHOOL OF PHARMACOLOGY AND MEDICINE

The School of Medicine and Pharmacology offers a range of opportunities for students interested in pursuing careers in medicine, biomedical research and a range of health sciences. The broader scope of career pathways for science graduates includes courses offered through the Faculty of Medicine, Dentistry and Health Sciences and are supplemental to those described here. The School of Medicine and Pharmacology contributes to teaching for the professional practice Doctorates with a focus on the newly commenced Doctor of Medicine. Entry to the MD requires a bachelor's degree with a high level of overall achievement and appropriate GAMSAT scores. Clinical Academic and Academic staff in our School engage in biomedical research that is reliant on a number of highly trained and motivated researchers from science backgrounds. These graduates are involved from entry-level research assistants to post-doctoral researchers who independently manage large research groups.

There is also demand for science graduates especially those with biomedical majors (including pharmacology, physiology, biochemistry, pathology and anatomy) to fill teaching positions in the School.

Our undergraduate courses include the major in Pharmacology, which provides a comprehensive grounding in scientific concepts needed to understand the effects of drugs on the human body together with an appreciation of how these affects are used to treat human diseases. The major provides a foundation for future employment in a range of satisfying career settings, including the pharmaceutical industry (research or commercial setting), medical research, hospital laboratories (diagnostic or research lab), government health and regulatory agencies with oversight for drug use (e.g. TGA, State Health Department), clinical trial coordinators, and science education (secondary or tertiary sector).

A wide range of post-graduate courses are also available within the School of Medicine and Pharmacology. Science graduates may undertake Masters training in Clinical Research and Pharmacy. The Masters of Clinical Research trains clinicians from a range of health science backgrounds in the core disciplines of clinical investigation—epidemiology and biostatistics. Additional training is provided in the practical aspects of patient-oriented research including the ethics of clinical research and effective communication of clinical research results.

The UWA postgraduate pharmacy program differs in many respects from others, with a small yearly intake of about 50 students selected from a large pool of applicants each year. This fosters an excellent learning culture enhanced by small group learning and ready access to academic and professional staff and a great level of peer support. These students benefit from practical attachments in hospital and community pharmacy settings, which greatly enhance students' professional interpersonal skills. This provides students with insight into the various career pathways and exposes them to the very diverse range of health care in our society (primary, acute, women, children and aged care).

Through our close association with the other health professions at UWA, in particular medicine, pharmacy students engage in genuine inter-professional learning during the course. Academic excellence is not only evident in our teaching-research nexus but in a major research project our students carry out during the second year of their degree. These projects are either science or clinical research based and designed to complement students' different interests and strengths.

While the employment sector is increasingly competitive, highly trained science graduates from UWA remain sought after and retain excellent employment potential. As with most biomedical disciplines, the prospects of edifying employment are enhanced by completion of an Honours or higher degree including Masters or PhD. Science graduates are strongly encouraged to explore potential research and further training positions within the School of Medicine and Pharmacology at UWA.

Dr Brendan McQuillan
Head of School

Useful Links

School Homepage – <http://www.medpharm.uwa.edu.au/>

Honours Information - <http://www.medpharm.uwa.edu.au/courses/undergraduate/honours>

Postgraduate Courses - <http://www.medpharm.uwa.edu.au/courses/postgraduate>

Research - <http://www.medpharm.uwa.edu.au/research>

Postgraduate Profiles - <http://www.medpharm.uwa.edu.au/research/postgraduate-profiles>

Perkins Open Day

Saturday 27 August, 10am to 3.30pm

QEII Medical Centre, Nedlands



Experience the wonders of medical science when the Harry Perkins Institute of Medical Research opens its doors to the community.

Join us for talks on the very latest in research and treatments, hands-on activities, guided tours of the building by medical researchers and a rare walk through our state-of-the-art laboratories where our researchers tackle the most challenging human diseases.

- 10.50am Breast cancer - the good, the bad & the ugly
[Dr Andrew Redfern](#)
- 11.30am We are how we think - investigating the genetic basis for early onset brain disorders
[Associate Professor Julian Heng](#)
- 12.10pm Hunting genes in Western Australia
[Professor Nigel Laing AO](#)
- 12.50pm Why understanding fundamental biology is fundamental to your health
[Associate Professor Kevin Pflieger](#)
- 1.30pm Engineering better outcomes for patients with cardiovascular disease
[Dr Barry Doyle](#)
- 2.10pm Fighting cancer: a glimpse into the future
[Woodside Professor Ruth Ganss](#)
- 2.50pm Heart research is vital
[Professor Peter Thompson AM](#)



HARRY PERKINS INSTITUTE
OF MEDICAL RESEARCH

Visitors' paid parking: Carpark 3, 3A, 7, 7B (off Hampden Road)

perkins.org.au

SCHOOL OF PHYSICS

Physics is about understanding the world around us at the most fundamental level, from cosmic length scales to sub atomic length scales. It is also about exploiting that understanding to develop new technologies for the benefit of humankind. The timescales between breakthroughs in physics and their implementation in new technologies can be long. For example, quantum mechanics was developed in the 1920's and understood by only a few of the most brilliant scientists in the world; it was only in the 1960's that it led to the electronics revolution that has given us technologies such as televisions, computers and mobile phones. Now second year undergraduates can master quantum mechanics, and some of our PhD students are working on the development of a revolutionary new concept - quantum computers, which would have almost unimaginable capabilities.

A feature of the Physics major is that students develop skills in critical thinking, solving abstract problems, analysing big data sets, and experimental method. These are skills that are highly valued by many employers in industry and government. In fact, whilst a proportion of students completing the Physics major go on to do research in physics or get a job in which their knowledge of physics is important on a daily basis, the majority are snapped up by employers who value the generic skills developed during the Physics major. Skills and knowledge developed in the Physics major are also an excellent complement to other majors, including Engineering Science, Mathematics and Chemistry.

The Physics major also leads into opportunities for postgraduate study via the Master of Physics, which includes training for exciting careers in Medical Physics and Computational Geoscience. The Masters programme is also the opportunity to develop strengths in Astronomy and Astrophysics, which are relevant to the Square Kilometre Array (to be jointly sited in WA and South Africa). For those interested in pursuing a research career, the next step is normally a PhD.

The School of Physics is a research intensive School, and has international renowned research groups in Precision and Quantum Measurement, Theoretical and Computational Physics, Astronomy and Astrophysics, and Medical Physics.

Your undergraduate and postgraduate studies at UWA are the pathway to your future - make sure it is an exciting one full of opportunity!

Prof Ian McArthur

Head of School

Useful Links

School Homepage – <http://www.physics.uwa.edu.au/>

Postgraduate Courses -
<http://www.physics.uwa.edu.au/courses/coursework>

Research - <http://www.physics.uwa.edu.au/research>

Postgrad/Graduate Profiles -
http://www.physics.uwa.edu.au/contact/postgraduate_research_profiles

Facebook -
https://www.facebook.com/PhysicsUWA?fref=pb&hc_location=profile_browser

SCHOOL OF PLANT BIOLOGY

Useful Links

School Homepage – <http://www.plants.uwa.edu.au/>

Honours Information -
<http://www.plants.uwa.edu.au/courses/honours>

Postgraduate Courses -
<http://www.plants.uwa.edu.au/courses/postgrad-coursework2>

Research - <http://www.plants.uwa.edu.au/research>

Postgrad/Graduate profiles -
<http://www.plants.uwa.edu.au/research/postgrads>

SCHOOL OF PSYCHOLOGY

Useful Links

School Homepage – <http://www.psychology.uwa.edu.au/>

Honours Information -
<http://www.psychology.uwa.edu.au/courses/honours>

Postgraduate Courses -
<http://www.psychology.uwa.edu.au/courses/postgraduate>
Research - <http://www.psychology.uwa.edu.au/research>

Postgrad/Graduate profiles -
<http://www.psychology.uwa.edu.au/research/postgrads>

Career Options -
<http://www.psychology.uwa.edu.au/students/careers>

Facebook -
https://www.facebook.com/UWAPsychology?fref=pb&hc_location=profile_browser

SCHOOL OF SPORTS SCIENCE AND HEALTH

Useful Links

School Homepage – <http://www.sseh.uwa.edu.au/>

Honours Information -
<http://www.sseh.uwa.edu.au/courses/honours>

Postgraduate Courses -
<http://www.sseh.uwa.edu.au/courses/postgraduate>

Research - <http://www.sseh.uwa.edu.au/research>

Postgrad/Graduate profiles -
<http://www.sseh.uwa.edu.au/research/postgrad-profiles>

Facebook -
https://www.facebook.com/ssehuwa?fref=pb&hc_location=profile_browser

Career Paths - <http://www.sseh.uwa.edu.au/career>

SCHOOL OF MATHEMATICS

Useful Links

School Homepage – <http://www.maths.uwa.edu.au/>

Honours Information -
<http://www.maths.uwa.edu.au/courses/undergraduate/honours>

Postgraduate Courses -
<http://www.maths.uwa.edu.au/courses/postgraduate>

Research - <http://www.maths.uwa.edu.au/research>

Postgrad/Graduate profiles -
<http://www.maths.uwa.edu.au/courses/graduates>

SCIENCE QUALIFICATIONS & SKILLS

Skills developed by Undergraduate Study

Students studying a Bachelor of Science at UWA have the opportunity to select one of 32 majors as their degree-specific major, from computer science to anatomy. Complementing their degree-specific major with any second major across all faculties, our students have an established set of unique skills, both technical and transferrable. It is these skills that make them not only a valuable asset in the science industry, but more broadly, in any field.

Effective Communication - Science students are encouraged to develop strong written and oral communication skills through lab reports and oral presentations. These skills demonstrate to employers you are confident enough to effectively express your ideas clearly in both speech and writing.

Inquiry and critical thinking - Throughout their degree, science students are taught critical thinking skills through problem solving and self-learning activities. By demonstrating you have the ability to think critically, employers understand you are able to think logically and independently.

Ethical, social and international understanding - UWA students are required to complete a series of broadening units which allow them to develop broader knowledge and an understanding of the international workplace. This demonstrates to employers that you understand the world around you, and have knowledge beyond your immediate major. This skill is also particularly relevant for students who participated in the UWA Study Abroad Program.

Management of self, others and tasks - This is particularly relevant for those who have completed an honours year. By demonstrating you are able to manage yourself and your time effectively, you indicate to employers that you are able to work independently when required, meet deadlines, and can plan project timelines. Students are encouraged to work in groups in lab reports, assignments, and fieldtrips. This demonstrates to employers you have the ability to work collaboratively and confidently within a group setting.

Quantitative Literacy – science students throughout their degree are expected to collect, organise, analyse and interpret data in a meaningful way, using mathematical and statistical tools as appropriate to the discipline of specialisation

Information and Communication technologies literacy – students are expected to use a range of sources to find the information desired and evaluate its content within the desired context. Using a variety of programs, students make effective use of the technology to process data.

CHECKLIST FOR SUCCESS

Realise what you want

Make a list of everything you want in a job, this will help you narrow down the jobs you should apply for. You should also consider your interests, strengths, values, and personal style when researching employment opportunities. There is no point securing a job if you won't enjoy it in the long run.

Clean up your social media

Chances are, future employers will search for you on Facebook, Twitter, etc., and this may impact their perception of you. Make sure your privacy settings are secure and untag or delete any pictures or statuses you don't want to be seen. Don't forget, social media can also be used to your advantage. 'Like' pages on Facebook that relate to your job interests. Consider setting up a profile with careers sites such as LinkedIn, although remember to keep your profile purely professional!

Network

Approximately 60% of graduate positions suitable for science students are not formally advertised. Therefore, it's important that you create a professional network so you can learn about job opportunities when they arise. You may also wish to get a mentor. Not only will a mentor be able to answer your questions, but they will also provide you with extremely valuable industry connections. Remember, your lecturers are active in the industry, so use them to your advantage!

WRITING YOUR RESUME

Ensure your resume captures what makes you, you

It sounds trivial, but this is very important! An employer would want to spend no more than 30 seconds looking at your resume, and by the end of either your summary, or educational overview, should understand roughly what makes you tick. By the time they've seen work experience (especially if it's related to the job you apply for), they should be able to understand how your time at university has shaped you as a person, and why you're different to every other person applying for that job.

Keep your resume clean and concise

Make sure your resume is no longer than two pages, although a one pager will often do the job just fine, encouraging the reviewer to consider all the information. Keep bullet points even, dates of employment clear, your name and contact details obvious at the start, and formatting consistent throughout – if you seem professional and meticulous in your resume, it's a greater sign you'll probably be that way should you be employed!

Address key skills that employers would hire you for

Employers want to see that you've been active contributors and team players, so demonstrate that when explaining your degree, work experience, and extra-curricular you solved problems, had an impact, and worked collaboratively. Use 'active' words (developed, constructed, implemented etc.), quantify your projects, and demonstrate key responsibilities – all to show off how those skills you learnt are beneficial to the employer's organization.

Ask for feedback

By no means are we advocating that you feel forced to share your amazing resume with the rest of the world, but seek out family, trusted friends, professors, and connections in industry/ research to give your resume a quick once-over and tell you where you can improve. An outside view can always pick up on details you may not have found important, or suggest where you can clarify key points.

INTERVIEWS

An interview is quite a daunting process – but it's always made easier by **preparing extensively**, and thinking about **why you really want the job**. It's always far easier to convince someone you're passionate about working for an employer if you really are!

When preparing for an interview, always consider what type of meeting you have set up – is it a formal interview, or more of a conversation? Is it a technical interview (where you show off your knowledge), or more behavioral (where you explain the sort of person you are)? Is the interview time-limited? What level of seniority is the interviewer? These questions will all help to inform your preparation.

There are often sets of key questions to try an answer before any interview, which are likely to come up in some form:

- Why do you want a job here, and in this area of work?
- What would you bring as a candidate, different to anyone else?
- Why have you applied for the division/ research area you have?
- When is a time you've worked well in a team, or faced a challenge? How did you resolve it?
- What do you consider a key strength and key weakness?
 - Pro-tip: Don't make your key weakness a 'strength-in-disguise', such as, 'I work too hard'. Try and show you recognize your weaknesses, and are trying to improve those traits.
- Tell me a little bit about yourself?
- Where do you see yourself in 5/10/20 years?
 - Pro-tip: Discuss your desire to grow, and develop with a company, and how they can help you reach your goals.

Write down **2-3 key points you want to cover** for each question, and think about what **examples** you can use to show you 'at your best', and how you thought through different solutions, coming to the conclusion you did.

Interviews are times to get to know you, so **explain your thought process**, and invite clarification if need be.

Make sure you finish off the interview on as positive a note as possible – it also helps if you have a few questions to ask the interviewer about their job, and what they do for the company – it helps you to engage with them, and **make the process more conversational!** Good luck!

EMPLOYMENT OPPORTUNITIES FOR SCIENCE GRADUATES

Types of Industries

According to the Australian Graduate Survey conducted by GCA, the main industries for employment for students who graduated with a Science-related major are:

Business Services

- accounting, banking, finance and insurance
- management and consulting services
- personnel and recruitment

Education

- higher education and vocational training
- primary and secondary education

Government

- defence and intelligence agencies
- federal, state and local government departments
- public order and safety services

Health, Medical and Pharmaceutical

- allied health services
- hospitals, pathology and diagnostic imaging services

- pharmaceutical and medicinal product manufacturing
- sports and physical recreation activities

Information and Communications Technology

- computer systems design and technology innovations
- telecommunications

Manufacturing

- agriculture, food and beverage production
- building and construction
- engineering consulting, design and production
- gas, oil and mining
- natural resources and energy
- roads and transport.

*(Source: Australian Graduate Survey, 2008 GCA; Monash University Faculty of Science
www.sci.monash.edu.au/undergrad/employ/industries.html)*

Once you know of the industries that interest you, your attention should then focus on the types of occupations that fit within these.

GAINING INDUSTRY EXPERIENCE

Work Integrated Learning and Work Experience

Programs include: **cadetships**, **cooperative programs**, **internships** and **scholarships** in fields relating to study.

Recruitment usually targets **students in their penultimate year** and vary in length from vacation to full year. Programs provide benefits such as: relevant work experience, participation in training and mentoring schemes, increased knowledge of suitable industries, an opportunity to network with employers of Science graduates, improved likelihood of gaining graduate employment and on occasion, credit towards a university course.

Keep an eye on the UWA Career Hub website for upcoming recruitment drives, and be sure to attend Career Fairs when available.

Volunteering

Volunteering is highly regarded by employers – contact Guild Volunteering to stay up-to-date with opportunities.

GRADUATE EMPLOYMENT

Tips when starting:

- **Talk to someone** who is currently in a position that interests you. This will help you learn more about the role and build up your network of contacts.
- Keep up-to-date with the latest **scientific, policy, and economic developments**, both generally and in your particular area of interest.
- Be realistic about the jobs you look for and about the time it takes to find work. Remember that **one position can be a stepping-stone** to another more appropriate one. Work and institutional experience count for much once you are out in the labour market.
- **Research** organisations in which you are interested before applying. Try to find a work environment in which you will be comfortable.
- **Business skills** such as budgeting, project management and presenting or promoting ideas are becoming increasingly important in many organisations and industries. Try to develop these skills where possible.
- Make sure your résumé is tailored to the job for which you are applying and in particular highlights your relevant experience and transferable skills.

HONOURS

At the completion of a Bachelor of Science at UWA, most science majors also give students the opportunity to complete an honours year. This final year of study usually involves a combination of course work and dissertation (research), and is both a challenging yet rewarding experience. By completing an honours year, you are able to demonstrate to future employers you are a dedicated and high-achieving student. Typically, honours is only available to students who achieve at least a 65 per cent weighted average in the level 3 units of the major they wish to complete honours in. If you are looking into pursuing postgraduate research, honours are the next essential step.

Honours are available through most schools under the Faculty of Science. Please note some majors fall under the schools relating to the Faculty of Medicine (School of Pathology and Laboratory Medicine, School of Pharmacology and Medicine), and may have different regulations regarding honours. It is also possible to undertake honours through external institutions whilst still being enrolled as a UWA student. Regardless of where you wish to undertake your honours, it is important you start looking into it early. During your final undergraduate year, you should start looking at the projects available to students studying your major and see what interests you. You should contact the relevant superiors about their work, and express your interest in their field of research. This is important as researchers are more willing to take on students who have shown interest and enthusiasm in their research prior to the application deadline.

Useful Links

<http://www.science.uwa.edu.au/courses/honours#Faculty%20of%20Science%20honours>

<http://www.perkins.org.au/our-people/studying-with-us/>

<http://telethonkids.org.au/join-us/study-with-us/>

School	Subject Areas	Project webpage
Agricultural and Resource Economics	<ul style="list-style-type: none"> Agricultural Science Environmental Science <ul style="list-style-type: none"> Natural Resource Management 	www.are.uwa.edu.au/courses/honours
Anatomy, Physiology and Human Biology	<ul style="list-style-type: none"> Anatomy and Human Biology Biomedical Science <ul style="list-style-type: none"> Neuroscience Physiology 	www.aphb.uwa.edu.au/courses/honours
Animal Biology	<ul style="list-style-type: none"> Agricultural Science Conservation Biology <ul style="list-style-type: none"> Marine Science Neuroscience Science Communication Zoology 	www.animals.uwa.edu.au/courses/honours
Chemistry and Biochemistry	<ul style="list-style-type: none"> Biochemistry Biomedical Science <ul style="list-style-type: none"> Chemistry Genetics 	www.chembiochem.uwa.edu.au/courses/honours
Earth and Environment	<ul style="list-style-type: none"> Environmental Science <ul style="list-style-type: none"> Geography Geology Hydrogeology Marine Science Natural Resource Management Urban and Regional Planning 	www.see.uwa.edu.au/courses/honours
Physics	<ul style="list-style-type: none"> Astronomy and Astrophysics <ul style="list-style-type: none"> Physics Medical Physics 	http://courses.handbooks.uwa.edu.au/courses/c5/53560
Plant Biology	<ul style="list-style-type: none"> Agricultural Science Conservation Biology Environmental Science <ul style="list-style-type: none"> Marine Science 	www.plants.uwa.edu.au/courses/honours
Psychology	<ul style="list-style-type: none"> Psychology 	www.psychology.uwa.edu.au/courses/honours
Sport Science, Exercise and Health	<ul style="list-style-type: none"> Sports Science Exercise and Health 	www.sseh.uwa.edu.au/courses/honours

POSTGRADUATE STUDY

Useful Links

Postgraduate Courses (Faculty of Science) - <http://www.science.uwa.edu.au/courses/postgrad/coursework>

Postgraduate Research - <http://www.science.uwa.edu.au/courses/postgrad/research>

Postgraduate Courses (Faculty of Medicine, Dentistry and Health Sciences) - <http://www.meddent.uwa.edu.au/courses/postgraduate/coursework>

Below is a list containing some of the 'professional' degrees available through various faculties at UWA. Further information available at:

<http://handbooks.uwa.edu.au/postgraduate-courses>

- Master of Pharmacy
- Doctor of Clinical Dentistry
- Doctor of Medicine
- Doctor of Clinical Podiatry
- Juris Doctor (Law)
- Master of Professional Engineering
- Master of Architecture
- Master of Clinical Audiology
- Master of Landscape Architecture
- Master of Social Work
- Master of Teaching
- Master of Clinical Psychology
- Master of Industrial and Organisational Psychology

RESOURCES

- [My Skills](#) - Online information about vocational education and training options.
- [Job Outlook](#) is a careers and labour market research information site to help individuals decide on their future career.
- [Australian Job Search](#) - Australia's largest free online jobs website.
- [jobactive](#) - Australian Government employment services system that supports job seekers and employers.
- [Bullseye posters](#) - School subjects you like and jobs they can lead to.
- [myfuture.edu.au](#) - National career information and exploration service.

SCIENCE CLUBS AND SOCIETIES

BioMedical Sciences Association

Facebook.com/biomed.uwa

CHeMnBiO

Facebook.com/CHeMnBiO

UWA Mathematics Union

Facebook.com/mathsunion

UWA Psychology Society (PsySoc)

Facebook.com/UWAPsySoc

The Physical Education Students' Association

Facebook.com/uwapesa

The Science Communication Society

Facebook.com/SCSUWA

University Physics Society

Facebook.com/groups/UniversityP

The Woolnough Society

Facebook.com/WoolnoughSociety

The UWA Zoology Club

Facebook.com/uwazoologyclub

Faculty Societies

The Health Students' Society

Students of Natural and Agricultural Sciences

The University Dental Students' Society

The University Engineers' Club

The Western Australia Medical Students' Society

UWA MATHEMATICS UNION

What is your club, who do you represent and what do you provide for your students?

We are the UWA Mathematics Union, and we provide a platform for mathematics students and people studying mathematics and statistics to meet each other, network and receive educational advocacy! We have a range of events, from our annual "pi-downer" barbecue, staff vs. students soccer, Profs and pints and our Intro to R workshops run in conjunction with Woodside. We also advertise events such as colloquia and seminars run by the School of Mathematics and Statistics and host campus presentations from companies such as Bankwest and Teach for Australia. We are perhaps most well-known for our booklets with sample exam questions that we produce to assist students with study, and we also liaise with the School of Mathematics and Statistics to ensure that students have the best educational experience possible!

What further study opportunities are there for your degree at UWA?

At the moment there are two types of postgraduate opportunities for mathematics and statistics students at UWA, and they are both Higher Degrees by Research. The Master of Philosophy and the Doctor of Philosophy courses usually take two years and at least three years respectively, and both involve a long term research project, supervised by members of the School of Mathematics and Statistics. Both of these degrees usually have scholarships associated with them which fund students for the duration of their degree, and often include funding to travel to conferences domestically and overseas to communicate research and network.

What other opportunities are there elsewhere?

Masters and PhDs are the natural progression for students wanting to continue with a career in mathematics.

There are countless excellent institutions to pursue postgraduate studies in Australia and around the world, particularly in Europe and North America. Alternatively, you can find employment straight out of honours at consulting or engineering firms.

What career paths exist for your majors?

After a postgraduate degree, a researching mathematician spends some time in a post-doctoral position, putting their skills to good use. These can be done at universities or institutions like CSIRO. Pure mathematics leads to careers in research: for example, a number theorist can find employment with the Australian Defence Force or Google, working in cryptography and security. Important areas for applied mathematicians include the study of networks such as water piping systems for cities or the spread of diseases in communities, modelling real-world systems and seismology. Some examples of statistical careers include working for the Australian Bureau of Statistics and the fast-paced field of big data, which plays an important role for mining companies.

How might your skills be useful in other fields?

A mathematics background will help you immensely in other scientific fields. For example, learning linear algebra has enormous benefit to understanding quantum mechanical theory. Alternatively you can use your numerical and problem solving skills in the financial services sector for roles in investment banking, trading or accounting. With the popularity of big data on the rise maths graduates could even secure a graduate position working in a data science division of an oil and gas company, or work for consulting firm like IBM.

A student's advice for your career?

My advice would be to start building your resume as soon as possible and to actively meet new people.

By joining the committee of a student society or charity future employers will see that you have other skills and interests that are unique only to you. Joining a committee will also expose you to a variety of different people who can give you career guidance and may even offer you opportunities later in life. Attending networking events can also open up a lot of opportunities that may otherwise not be advertised, and you may even make some new friends. You should also apply for research projects and summer studentships during your undergraduate years to get a feel for what research is actually like, and test the waters to find out which fields you have a passion for.

UWA PSYCHOLOGY SOCIETY (PSYSOC)

What is your club, who do you represent and what do you provide for your students?

PsySoc is a discipline club that caters for psychology students at the University of Western Australia. This is students studying either of the undergraduate majors (Psychological Science or Psychology in Society), or pursuing their honours and postgraduate studies.

We provide a base where psychology students can meet other psychology students, gather information about studying psychology, and be informed of opportunities/events happening outside of the general curriculum.

What further study opportunities are there for your degree at UWA?

There are many further study opportunities available to students upon completion of a Bachelor's degree with a double major in Psychology. For students wishing to remain on the pathway to professional registration as a psychologist, UWA offers a 4th-year accredited Honours degree and a range of postgraduate professional programs in Clinical Psychology,

clinical Neuropsychology, and Industrial and Organisational Psychology. The Graduate Diploma in Education (School Psychology) is also available to students upon completion of an Honours degree. For students not wishing to remain on the pathway to professional registration as a psychologist there are numerous study options available including:

- Higher Degree by Research / PhD (*requires Psychology Honours)
- Graduate Certificate in Autism Diagnosis (*requires Psychology Honours)
- Master of Business Psychology
- Graduate Certificate (e.g. Adult Sleep Science; Paediatric Sleep Science; Business; Mental Health Practice; Social Policy Practice)
- Graduate Diploma (e.g. Science Communication; Sleep Science; Work Health and Safety)
- Masters by Coursework (e.g. Social Work; Human Resources and Employment Relations; Public Health; Science Communication)

What other opportunities are there elsewhere?

Other universities offer degrees for students wishing to remain on the pathway to professional registration as a psychologist and these may include Graduate Diplomas of Professional Psychology, Professional Masters degrees, Professional Doctorates and Combined MPsych/PhD degrees. Students may also wish to pursue other areas of study such as counselling, psychotherapy, speech therapy or occupational therapy at other institutions.

What career paths exist for your majors?

Many graduates of psychology find employment in fields such as:

- Community, health and welfare services

- Business, human resources and marketing
- Program, policy and research support
- Education
- General management
- Graduate programs

The Australian Psychological Society provides a number of resources on pathways for those with a qualification in psychology -

http://www.psychology.org.au/studentHQ/?utm_source=Website&utm_medium=Dropmenu&utm_campaign=PSHQ

PsychXchange is a resource which provides recruitment and business opportunities for psychologists –

www.psychxchange.com.au

How might your skills be useful in other fields?

An undergraduate degree in psychology equips graduates with a range of skills that employers value highly. These include the ability to

- Apply psychological principles to personal, social and group issues
- Plan, implement and evaluate research
- Think critically and creatively, and use scientific methods to solve problems
- Communicate effectively in a variety of formats and settings
- Act professionally within an ethical framework

'A student's advice for your career'

It is always great to start making connections with people who are in the industry you are aiming to go into. You can do this in several ways, such as volunteering at different organisations and making sure you keep up to date with what is happening at university and if any career experts might be visiting.

Be proactive and talk to as many people as you can, as you never know who you could be working with one day!

If any, what accreditation do your majors provide?

Our Psychology double major is an Australian Psychology Accreditation Council (APAC)-accredited three-year sequence of psychology study and is the first step towards registration as a practicing psychologist, or towards a career as a research psychologist. The double major can be completed within a BA, BSc, BPhil or a graduate-entry Diploma in Science.

Our Honours degree is an APAC-accredited fourth year of psychology study, and is a prerequisite for further studies in Psychology that lead to professional registration as a psychologist.

Our professional postgraduate programs in Clinical Psychology, Clinical Neuropsychology and Industrial and Organisational Psychology are APAC-accredited, approved by the relevant Australian Psychological Society College, and recognised by the Australian Health Practitioner Regulation Agency (AHPRA).

SCIENCE COMMUNICATION SOCIETY

What is your club, who do you represent and what do you provide for your students?

We represent all students doing a science communication (SCOM) unit, with a focus on those enrolled in the major. We provide social activities so you can get to know your peers, and events to help minimise stress.

What further study opportunities are there for your degree at UWA?

Honours/Masters in Science Communication.

What other opportunities are there elsewhere?

There are a few universities across Australia (and more through the world) that have degrees for SCOM. One of the most notable is Questacon that is run through ANU. This is where you travel through Australia whilst performing science shows and workshops for a diverse range of schools and communities.

What career paths exist for your majors?

Many of our graduates work for places in Perth like Perth Zoo and Scitech, as well as outreach teams and the ChemCentre, just to name a few.

How might your skills be useful in other fields?

It's no doubt that communication is one of the key things that employers look for, and even here in Perth some are asking for experience/studies in science communication. A lot of students may also be studying a science degree that they like, but don't want to be doing research. SCOM is the perfect way to help you avoid that, but also perfect to help you excel in research.

'A student's advice for your career'?

Talk to people! One of the best things about SCOM at UWA is the staff - they are always so approachable and helpful. If you ever have any questions I suggest speaking to your unit coordinator or tutor, or contacting someone from the club.

If any, what accreditation do your majors provide?

Besides the degree itself, it's a really easy way to show off your communication skills. Plus, in many of the units you will end up with something to show for it, such as a consultancy report or a short movie.

What is your club, who do you represent and what do you provide for your students?

Our club is the Woolnough society, and we represent the Geology students of UWA. Woolnough runs events and activities to benefit our members both socially and professionally - such events include an annual industry night, wine and cheese night, quiz night and cocktail night, as well as numerous fieldtrips.

What further study opportunities are there for your degree at UWA?

The School of Earth and Environment has several great post-graduate options to complement their undergraduate degree - and the honours programs and masters programs alike are catered towards teaching industry-relevant skills.

What career paths exist for your majors?

The geology degree at UWA prepares you for many possible career paths. The independent nature of the learning process within the course enables earth science students to undertake rigorous field work job opportunities, and the highly theoretical understanding developed enables both academic- and business-oriented career paths.

How might your skills be useful in other fields?

Geology is a broad discipline that can be pursued in a number of ways: chemical, physical, structural and economic. At its core, a degree in geology develops key skills applicable in many scientific fields. Due to the many different fields of science that must be understood to comprehend geological processes, earth science students are capable pursuing careers or further studies over a wide range of fields.

A student's advice for your career?

My advice to building towards a successful career is to be constantly building towards a library of contacts. Within the professional environment, it is easy to get lost and it's a significant help to have a professional within the industry that can steer you in the right direction. The resources sector is also highly cyclical - and so it's not always about what you know. Take the initiative to go to industry-related events as the people you meet now can help secure you a job position later.

THE UWA ZOOLOGY CLUB

What is your club, who do you represent and what do you provide for your students?

The Zoology club supports Zoology and Conservation Biology students throughout their degrees and connects them with local conservation groups as well as opportunities to enter careers in the animal and conservation field. Through our efforts this year, we have had over 100 students join our club, and we have been able to extend this volunteer base successfully to local conservation organisations such as the Darling Range Wildlife Shelter and Penguin Island to support them in their conservation projects. As well as this we run fun events such as quiz nights and bubble soccer.

What further study opportunities are there for your degree at UWA?

After undergrad you can do an honours with a research project (one year) or you can do a masters of biological science in coursework or research (one and a half years if you specialise in zoology, two for other biological sciences I think unless you get credit for undergrad units). After honours or masters you can do a PhD or you also have the opportunity to become a research assistant.

What other opportunities are there elsewhere?

You can study honours at Murdoch University in Animal Science and they have a load of interesting studies. You can also study your honours at UWA and then pursue a masters degree at Murdoch (you can't do masters at Murdoch without an honours) and they have great masters courses which are very specialised.

What career paths exist for your majors?

Zookeeper at Perth or other Zoos, Climate Council, volunteer/non profit programs, and research.

How might your skills be useful in other fields?

Science communication is essential in all fields of work, as it can help to get across an important message. Hands-on work can encourage leadership and teamwork.

A student's advice for your career?

If you have a passion for saving life on Earth and promoting conservation for generations to come, zoology is for you!

If any, what accreditation do your majors provide?

Effective science communication, use of R studio/excel to plot and present data points, and an understanding of all forms of animals, and how we can go about saving them from the human race.

HEALTH STUDENTS (FACULTY) SOCIETY

What is your club, who do you represent and what do you provide for your students?

The Health Students' Society represents all students who study a health related major, both undergraduate and postgraduate. At the undergraduate level, we represent Population Health, Pathology and Immunology, Aboriginal Health and Wellbeing and Pharmacology students. At a postgraduate level, we represent Social Work, Public Health, Health Science, Nursing, Pharmacy and Podiatry students.

What further study opportunities are there for your degree at UWA?

The most popular postgraduate courses for health students include the Masters of Health Science, Masters of Public Health, Honours in Public Health and Medicine.

What other opportunities are there elsewhere?

Elsewhere, students can do a Masters of Public Health at Curtin University which is a popular choice as they offer different specialisations (such as Epidemiology and Health Promotion). Notre Dame also attracts a large number of UWA students to study postgraduate Medicine.

What career paths exist for your majors?

- Medicine
- Health Promotion
- Health Education
- Consulting
- Health Management
- Pharmacy
- Aboriginal Health Professionals
- Social Workers

- Social Workers
- Health Economists
- Epidemiologists
- Research (very big research focus)

How might your skills be useful in other fields?

A lot of the skills are transferable to careers in management, communications, economics and research.

A student's advice for your career?

A health degree is a fantastic degree to do if you have a passion for both Science and working with people. There's always going to be jobs in health, especially public health. With the ageing population and current trends in lifestyle diseases, it's a fantastic time to enter the workforce.



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