And our mission begins with what’s most important: educating the next generation of pharmacists and pharmaceutical scientists.

It’s why we focus on small group learning that allows you to receive individual attention from some of the world’s leading educators.

It’s why we focus on equipping you with not just the most up-to-date knowledge but also with the skills you need to put that knowledge into practice.

And it’s why our undergraduate degrees offer extensive experiential opportunities, so you can integrate what you’ve learnt in the classroom with what goes on in the wider world.

It’s the mission we’ve had since 1881, long before we became one of the world’s most highly regarded institutions in our field, when we began serving Victoria as the Victorian College of Pharmacy.

Studying with us offers you a unique opportunity to become part of a tight-knit community of people at the highest echelons of their professions, all utterly dedicated to improving the world around them.

Please, join us.
IN ONE WAY, WE’RE SMALL.

We’re a community of about 2000 people (researchers, educators, students, administrators) bound together by a shared passion for the transformative power of medicines.

We’re fascinated by the biology, chemistry and biomedical science that underpin pharmaceuticals and are dedicated to making sure medicines are used safely, effectively and with maximum benefit for our communities.

Our small size means students get to know each other and their instructors well. At Monash Parkville, it’s hard to slip through the cracks.

BUT IN ALL THE WAYS THAT MATTER, WE’RE BIG.

We’re part of Monash, Australia’s largest university and a highly regarded global brand.

This means you can enjoy the resources of Australia’s largest university. We offer many student services and extra-curricular activities on our campus, but you’re welcome to take advantage of other opportunities at Monash’s larger campuses as well.

LOCATION IS EVERYTHING

Located on the edge of Melbourne’s central business district and easily accessible by tram and train, we’re right next door to buzzing inner-city suburbs like Carlton and Brunswick.

We’re also in the heart of Melbourne’s world-renowned Biomedical Precinct, a global hub for research and healthcare talent. This comes in handy when it’s time to go on placement.

STUDENT LIFE AT PARKVILLE

Whether or not it’s your first time studying at university, transitioning into a new environment and routine can seem daunting. At Parkville, we’ve got lots of programs in place to make you comfortable and help you get the most out of your time here.

From Day 1, we ensure you have a strong sense of connection and belonging to our campus community. You’ll receive a peer mentor, a student who is one step in front of you in your course, and you’ll have the opportunity to keep in touch with them and ask any questions throughout your first semester. At the same time, you’ll connect personally with an academic member of staff through your ‘Skills coach group’ – a unique aspect of our teaching method that sees you put in small groups with the aim of developing key soft skills you’ll require to succeed in your career.

On top of this, there’s the opportunity to join one of our campus’ many Clubs and Societies, with groups spanning special interest as well as those intertwined with the pharmacy and pharmaceutical science professions. You may wish to develop your leadership skills by taking on a leadership position in one of these clubs, or through the Faculty’s Student Ambassador Program.

We also focus on your preparedness to join the workforce post-study. Throughout your time with us, there’s plenty of opportunity to develop your employability skills and grow your professional networks.
PHARMACY
ESSENTIAL WORKERS, SUPPORTING HEALTHIER COMMUNITIES

Now, more than ever, the world needs pharmacists. As the experts in medicines and the way they interact with the body, pharmacists play a vital role in healthcare teams. Medication-related problems account for around 750,000 hospital admissions in Australia each year, and in 2019 medicine safety became a national health priority. In 2021, community pharmacists joined the nation-wide taskforce to vaccinate millions of Australians against COVID-19 and help protect our communities.

JOB PROSPECTS ARE BRIGHT

In Australia, an ageing population combined with more and more people living with chronic health conditions, means that health professionals are in constant demand. The number of job ads for pharmacists has grown exponentially in recent years, with a study led by Monash University concluding that Australia could in fact face a pharmacist shortage.

Five years ago, Monash launched Australia’s first combined Bachelor of Pharmacy (Honours) / Master of Pharmacy program. In Australia, it typically takes a minimum of five years to become a pharmacist. The number of job ads for pharmacists has grown exponentially in recent years, with a study led by Monash University concluding that Australia could in fact face a pharmacist shortage.

SAME DURATION, HIGHER QUALIFICATION

Five years ago, Monash launched Australia’s first combined Bachelor of Pharmacy (Honours) / Master of Pharmacy program. In Australia, it typically takes a minimum of five years to become a pharmacist. The number of job ads for pharmacists has grown exponentially in recent years, with a study led by Monash University concluding that Australia could in fact face a pharmacist shortage.

Real world experience: placements and internship

As part of the program you’ll undertake placements in community pharmacies, hospitals and other environments, practising your new skills while learning from some of Australia’s best pharmacists about areas such as primary health care, medicines information, and patient-focused pharmacy services.

Earn while you learn: how does the intern year work?

Real world experience: placements and internship

It’s your final year and you’ll be required to secure your own internship – just as you would your first job. But don’t worry – historically, students rarely struggle to find internships, as intern pharmacists are in-demand. Further, you’ll have developed a network of pharmacy practitioners through your placements in earlier years.

Flexibility to suit your needs

If you aim to register and work as a pharmacist in Australia, our Bachelor of Pharmacy (Honours) / Master of Pharmacy is a direct pathway to registration. However, we understand that everyone has different circumstances; you may not be willing to commit to five years of study quite yet, or you could be an international student aiming to work back in your home country. If this sounds like you, we set provision for students to enrol in our four-year Bachelor of Pharmacy (Honours) in the first instance, with the ability to automatically qualify for a place in the Masters upon completion.

In my first year of the program I was so pleasantly surprised by the flexibility and practicality of the program – I was given the opportunity to contribute to a journal, gain hands on experience through working in a community pharmacy and I even participated in a global competition which has led me to working with Australia’s Immunisation Coalition to help educate Australians on the flu vaccine. The educators really help you to find your own path.”

YANNEE LIU
Bachelor of Pharmacy (Honours) / Master of Pharmacy student

DID YOU KNOW?

Pharmacy graduates almost universally get jobs straight out of university, with 95% in full-time employment shortly after graduating.∗∗

∗QILT Graduate Outcomes Survey 2021
GRADUATE ENTRY PATHWAY
BECOME A PHARMACIST FASTER

Graduate Entry Pharmacy is for students who choose to study a more general science-based degree after high school, or didn’t meet our pharmacy course requirements at the end of Year 12. You’ll commence into third year of our Bachelor of Pharmacy (Honours) / Master of Pharmacy program, eligible for registration as a pharmacist in just three years, including a paid internship.

Who’s eligible?
It’s important you know our eligibility requirements for Graduate Entry Pharmacy and build them into your course progression if necessary. To be eligible for the program, you need to have completed a relevant degree in the last ten years with a minimum average of 70% for equivalent across your whole degree.

Relevant degrees include:
• Bachelor of Biomedical Science/Bachelor of Biomedicine
• Bachelor of Health Sciences
• Bachelor of Pharmaceutical Sciences
• Bachelor of Science

In assessing your eligibility, we’ll take into account the number of relevant subjects you’ve completed. The units completed in your degree should be appropriate and science based.

For more information about Graduate Entry Pharmacy, including eligibility and application information: monash.edu/graduate-pharmacy

Summer school: Bridge to practice I
Once you’re accepted into the program, you’ll need to complete a 6.5 week intensive summer school, commencing in early January. This program helps you start to transition your science knowledge to a pharmacy context.

Upon successful completion of summer school, you’ll commence into Year Three of the program, essentially being awarded two years of credit. You’ll need to complete one additional overload unit, Bridge to practice II, which continues to further the application of your science knowledge to pharmacy.

How do I apply?
Applications for 2024 entry will open on our website from 7 August, 2023, and close 8 December, 2023.

Apply at: monash.edu/study/how-to-apply

The Graduate Entry Pharmacy program was challenging at times, but it was also rewarding to see how far we all came in a short period. Although the course was structured quite differently to my previous Commerce/Science degree, it was designed to allow us to learn new information in lectures, and then further consolidate our knowledge and understanding.

I undertook my paid internship in a hospital setting at Monash Health. The process of applying for hospital internships is streamlined, and the exposure Monash gave us through placements, as well as the experience gained gave me the confidence to apply to these organisations.

I would highly recommend the Graduate Entry program at Monash!
If you’ve ever had a prescription filled at your local community pharmacy, you probably think you know what pharmacists do. The fact is, community pharmacy represents only one of dozens of career paths our graduates pursue, and many others are listed below.

**AGED CARE PHARMACIST**
Older people often have complex needs when it comes to medications. They are frequently taking a number of different medications and can be more susceptible to side effects. They may also need adjustments to their medications to accommodate difficulties with vision, hearing, memory or cognitive function.

**CLINICAL TRIALS PHARMACIST**
Pharmacists in this area support the management and delivery of clinical trials of new medicines. The role involves coordinating studies from a medicinal perspective, ensuring that drugs used in the trials are imported, stored, accounted for, compounded, dispensed and used in accordance with strict protocols. It may involve liaising with medical staff, counselling participating patients and carers, and educating medical and nursing staff.

**COMPLEX CARE COORDINATOR**
A relatively new career path, complex care coordination involves working with a hospital healthcare team and is often combined with consultant pharmacy work. The role involves providing early post-discharge medication review and follow-up plans for patients identified as being at high risk by hospital clinicians.

**CONSULTANT PHARMACIST**
Accredited consultant pharmacists conduct home medicines reviews and residential medication management reviews. As with many roles, consultant pharmacists often work part time undertaking medication reviews, while also working in other healthcare settings such as working at a community health centre, working with chronic disease management groups, or providing nurse education.

**DRUG SAFETY OFFICER**
Pharmacovigilance is an area focusing on monitoring drug safety. A pharmacist working as a drug safety officer liaises regularly with government and industry bodies, consumers and other healthcare professionals. Their responsibilities include receiving and processing reports of adverse drug events and conducting regular reconciliation with healthcare authorities. They use their skills and qualifications to ensure the public has access to safe and reliable medications.

**HOSPITAL PHARMACIST**
Hospital pharmacy involves a lot of collaboration as you find yourself working closely with a team of other healthcare professionals, including doctors and nurses, to provide the best care for patients. According to the Society of Hospital Pharmacists of Australia (SHPA), “…it offers variety, both in the roles you can have, such as clinical [i.e. direct patient care] or management, and in the types of hospitals you can work in – city or country, small or large, general or specialist. It’s a highly specialised career path that includes managing the supply of anti-psychotic medications to mental health patients in government units, outpatient clinics, community centres and specialist hospitals.

**Mental health pharmacist**
Mental health pharmacists in hospitals are responsible for providing clinical pharmacy services to the adult mental health in-patient wards, and psychiatric assessment and planning units. It’s a highly specialised career path that includes managing the supply of anti-psychotic medications to mental health patients in government units, outpatient clinics, community centres and specialist hospitals.

**Women’s and newborns’ pharmacist**
Providing safe and effective dosing and administration of medications during pregnancy and for infants is the focus of the role. One of the biggest challenges can be assisting in the care of babies born prematurely. But it’s also a highly rewarding area to work in; a skilled pharmacist can play a crucial role in giving a baby a better chance at a healthy life.

**Antimicrobial steward**
Antimicrobial stewardship is a vital role in any hospital and health facility, with responsibilities that include promoting the appropriate use of antimicrobials (including antibiotics), reducing microbial resistance, and decreasing the spread of drug resistant infections.

**Pain educator and consultant**
Chronic and acute pain are fascinating areas to work in. Pain management is a constantly evolving field that encompasses many areas of treatment, not just pharmacy and pain medications. Pharmacists work with patients to manage their medications and coordinate other forms of treatment.

**PRIMARY CARE PHARMACIST**
A practice pharmacist doesn’t dispense medicines. Instead, they work within a general medical practice to deliver direct support to general practitioners, practice nurses, and patients. They can often give more time and attention to individual cases, providing quality care and specialised services such as smoking cessation.

**PUBLIC HEALTH ADVISOR**
Pharmacists have knowledge, skills and experience that can contribute to advisory roles, both for the government as well as non-government institutions, such as health funds and private hospitals. The range of possible roles in this area is extensive, including medicines access, public health, developing efﬁcient services and more.

**REGULATORY AFFAIRS ASSOCIATE**
Working in regulation involves ensuring the appropriate licensing of and legal compliance by pharmaceutical and medical products. Following this career path, you’re involved in ensuring that a company’s products comply with regulations and legislation.

**RESEARCHER / ACADEMIC**
Many students ﬁnd their passion for research while studying, and go on to make a career of exploring and developing ideas in pharmacy. Through research and evaluation, pharmacists can make a huge practical difference to health policy and services. Common research areas for pharmacy graduates include pharmacy practice, pharmatherapy, drug discovery, toxicology, clinical sciences, public health and much more.

**SPECIALTY PRACTICE PHARMACISTS**
There are many different types of specialty practice pharmacists, below are just a few of the most common.

**Mental health pharmacist**
Mental health pharmacists in hospitals are responsible for providing clinical pharmacy services to the adult mental health in-patient wards, and psychiatric assessment and planning units. It’s a highly specialised career path that includes managing the supply of anti-psychotic medications to mental health patients in government units, outpatient clinics, community centres and specialist hospitals.

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**AUSLING MCEVOY**
Clinical Pharmacist at Alfred Health and AISLING MCEVOY

Moving to Melbourne from Queensland to pursue Monash’s Bachelor of Pharmacy (Honours) / Master of Pharmacy was a challenge, but I wouldn’t change it for anything! The team at Parkville made me feel welcome from my first day, and I’ve enjoyed every second of my time at Monash. During my studies, I’ve been involved with student groups like the National Australian Pharmacy Students’ Association, and the Victorian Pharmacy Students’ Association. Through these groups, I’ve had the chance to travel around the country, and meet pharmacy students from many other universities. From these interactions, it’s clear that Monash’s combined Bachelor / Master program is unique. The enhanced clinical placements, excellent lecturers and life-long friendships formed at Parkville make it clear how Monash earned their world class reputation - and why I moved to study here!

Thanks to the education I received at Monash, I was able to secure my first internship preference with Alfred Health. It’s been an amazing experience so far, and working here has made me appreciate how effectively Monash prepared me to practice as a pharmacist. I’m able to work in the hospital, and study for my internship exams with confidence that I’ve been given the skills and support to succeed. When thinking about my future career as a pharmacist, I’m excited at the thought of improving my patients’ health, and making a tangible difference in their lives. I hope to do this through research and continuing my hospital pharmacy journey.”
Pharmacy is a global profession and we want you to experience that in your degree. As part of our program, you can apply for exchange opportunities at our Malaysia campus. You can also apply to complete projects and elective placements in the US, and the UK. We work closely with preferred partners at the University of North Carolina, and University College London to ensure that our international activities are interesting and ethical.

An international career
Margaret Louey currently works as a Senior Technical Manager, Product Development and Regulatory Affairs at Clinton Health Access Initiative (CHAI). CHAI is a non-profit organisation founded by US President Clinton in 2002 with the aim of helping save the lives of millions of people living with HIV/AIDS in the developing world. CHAI has now expanded its goals to include access to critical medicines and diagnostics for HIV/AIDS, TB, malaria and other diseases in low- and middle-income countries.

After completing her Bachelor of Pharmacy degree at Monash University, Margaret worked in community and hospital pharmacies in London. She returned to Melbourne a couple of years later to do her honours and PhD at Monash.

To read more about Margaret’s journey:
monash.edu/pharm/alchemy-33/special-feature-pharmacy-gone-global/our-international-alumni/margaret-louey

Pharmacy is a global profession and we want you to experience that in your degree.
A degree in pharmaceutical science will equip you for an exciting and diverse career, enabling you to make a genuine impact to human health and wellbeing. Your understanding of the powerful interplay between chemistry and biology will set you apart from the crowd.

What will you actually study?
A career in pharmaceutical sciences can take you in a number of exciting directions.
During the course, you’ll have the opportunity to align your interests with particular aspects of the drug discovery pipeline. You might be attracted to drug discovery biology, which is about gaining an understanding of what causes different types of diseases and how current medicines work at a molecular level to treat them. You’ll get hands-on experience designing experiments to identify and test new biological targets for the development of novel drugs.
Or you might be drawn to medicinal chemistry, which represents the intersection of biology and chemistry, and involves the development of potential pharmaceutical compounds from conception through to their clinical use. You’ll study how drugs work, and how they’re designed and made. By applying the principles and techniques of organic chemistry, medicinal chemists discover and develop compounds that prevent, treat or cure disease.
There’s also formulation science, which enables you to understand the principles of designing pharmaceutical products and how medicines are absorbed and travel around the body to the site of action.
Drawing on techniques used in the pharmaceutical industry, you’ll also learn how to formulate chemical products in a wide range of applications, such as consumer products, cosmetics, paints and food.

Three-year BPharmSci vs four-year BPharmSciAdvHons: what’s the difference?
Some of our students want to complete their degree, get out there and start working.
For them, the three-year Bachelor of Pharmaceutical Science is the perfect pathway into a career in the pharmaceutical sector or any of its allied industries such as skincare, cosmetics, chemicals or even food manufacturing, just to name a few.
Other students find that their natural curiosity and passion to work on innovative research attracts them to a degree with a significant research component. For those students, the Bachelor of Pharmaceutical Science Advanced (Honours) is ideal. The third year of the degree includes an extended placement in either research or industry, which will give you the skills and independence to conduct a substantial research project in your fourth honours year.
Upon completion of an honours year, students are eligible to apply for a PhD.

DID YOU KNOW?
The first Australian COVID mRNA vaccine candidate was developed right here at Monash Parkville.


"I’ve done so many great things in this course. Last year I made an anti-epileptic drug from scratch. And the lecturers are so approachable. When you’re struggling with something, it’s amazing to be able to walk along the hall and knock on the door of someone who is one of the world-leading researchers in the area."

JOMO KIBOTHO
Pharmaceutical Science student
Bachelor of Pharmaceutical Science / Bachelor of Engineering (Honours)

Combining chemical engineering with pharmaceutical science, this double degree is unique in Australia and rare worldwide.

Not only will you learn how to invent and test new products such as pharmaceuticals, food and cosmetics, but you will have the know-how to manage the product process beyond the laboratory stage.

This double degree allows you to graduate as a qualified engineer capable of covering the full spectrum of the pharmaceutical product design and production process.

Pharmaceutical engineers work in all aspects of the design and production process, from experimenting with innovative formulations to manufacturing commercialised products. A pharmaceutical engineer might:

• design, develop and improve industrial processes and equipment for large scale chemical and pharmaceutical manufacturing
• plan and test methods of sustainable manufacturing
• devise production processes that are safe, efficient, profitable and environmentally sound
• develop and implement cleaner production technologies.

Bachelor of Pharmaceutical Science Advanced Honours Year

An Honours year gives you a taste of a research career and enhances your job prospects upon graduation. The Bachelor of Pharmaceutical Science Advanced (Honours) contains a Year 4, shown below.

YEAR 4

Full year subjects:

- BP4001 - Advanced Pharmaceutical Science (coursework) — 12 points
- BP4002 - Research in Pharmaceutical Science — 36 points

If you want details about what you’ll be specifically learning in each of your units, you’ll find them in our online handbook: handbook.monash.edu

BACHELOR OF PHARMACEUTICAL SCIENCE COURSE MAP (3 YEARS)

YEAR 1

<table>
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<tr>
<th>SEMESTER 1</th>
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<tbody>
<tr>
<td>BPS1011 Human physiology I: Cells to systems</td>
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<tr>
<td>BPS1021 Medicinal chemistry I: Structure</td>
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<tr>
<td>BPS1031 Physical chemistry I: Equilibria and change</td>
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<td>BPS1041 Scientific inquiry</td>
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<tr>
<th>SEMESTER 2</th>
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<tbody>
<tr>
<td>BPS1012 Human physiology II: Body systems</td>
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<tr>
<td>BPS1022 Medicinal chemistry II: Reactivity and biomacromolecules</td>
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<tr>
<td>BPS1032 Physical chemistry II: Solutions, surfaces and solids</td>
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<td>BPS1042 Pharmaceutical science in context</td>
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YEAR 2

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<th>SEMESTER 1</th>
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<tr>
<td>BPS2011 Pharmacology I: Biochemical signalling</td>
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<td>BPS2021 Synthetic chemistry I: Structure and reactivity</td>
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<tr>
<td>BPS2031 Analytical methods I: Principles and applications</td>
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<tr>
<td>BPS2041 Drug delivery and pharmacokinetics</td>
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<th>SEMESTER 2</th>
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<tr>
<td>BPS2012 Pharmacology II: Drug action</td>
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<tr>
<td>BPS2022 Drug discovery and design</td>
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<tr>
<td>BPS2032 Analytical methods II: Investigation design</td>
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<td>BPS2042 Drug development</td>
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YEAR 3

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<tr>
<th>SEMESTER 1</th>
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<tr>
<td>BPS3011 Disease-focused pharmacology</td>
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<tr>
<td>BPS3012 Computational drug design</td>
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<tr>
<td>BPS3031 Synthetic chemistry II: Advanced methods</td>
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<td>BPS3051 Pharmaceutical product development</td>
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<td>BPS3061 Industrial formation</td>
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<tr>
<th>SEMESTER 2</th>
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<tr>
<td>BPS3012 Applied pharmaceutical science: From concept to market</td>
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<tr>
<td>BPS3022 Drug discovery and design</td>
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<tr>
<td>BPS3032 Analytical methods II: Investigation design</td>
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<tr>
<td>BPS3042 Drug development</td>
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Elective unit — Choose four units from the following six:

- BPS3011 Disease-focused pharmacology
- BPS3031 Computational drug design
- BPS3031 Synthetic chemistry II: Advanced methods
- BPS3051 Pharmaceutical product development
- BPS3061 Industrial formation
- BPS3032 Analytical methods II: Investigation design

Elective unit — Choose two units from the following four:

- BPS3022 Drug discovery and design
- BPS3032 Analytical methods II: Investigation design
- BPS3042 Drug development
- BPS3052 Applied pharmaceutical science: From concept to market
CAREERS IN PHARMACEUTICAL SCIENCE

The course material sounds fascinating, all that time using high-tech lab equipment seems really fun, and the placement and industry experience opportunities mean you’ll graduate ready for the workforce. But where can a pharmaceutical science degree actually lead?

That’s a trickier question to answer than you might think. Although the course is primarily focused on understanding medicines, the skills you learn will translate to a range of chemistry-related or biomedical research opportunities. Our graduates can be found in industries from paint and coatings to cosmetics to food manufacturing.

Here are some of our more common graduate destinations.

**BIOMEDICAL RESEARCHER**

Biomedical researchers investigate how the human body works with the aim of finding new ways to improve health. Usually based in a laboratory, you’ll conduct experiments and clinical tests to record and report on the findings.

In general, biomedical researchers within a university focus on improving tools and techniques, studying biological processes and the causes and progression of diseases. Private sector labs develop high value products that generate considerable income for the company.

**CLINICAL RESEARCH ASSOCIATE**

As a clinical research associate you’ll use your experience in running experiments, gathering data and documenting the results during clinical trials. Typical employers for this role include clinical research organisations, pharmaceutical and biotechnology companies and even hospitals and universities. There is growing demand for this role in Australia, as we are one of the leading countries for phase one clinical trials.

**FORENSIC SCIENTIST**

Forensic science is the application of scientific techniques to help investigate crimes, accidents and other incidents. It’s not always like what you see on your favourite crime investigation TV shows, but can entail tasks such as analysing illicit drugs or suspect situations.

Real-world opportunities whilst you study

At our pharmaceutical science degrees offer the opportunity for a placement in research or industry in Year 3. Placements are compulsory for single degrees (with the Bachelor of Pharmaceutical Science Advanced Honours offering an extended placement) and optional for students studying the double degree with Engineering.

Placements are organised for you by the faculty and are a fantastic way for you to experience pharmaceutical science in the real world, including gaining an understanding of the discipline’s breadth. As part of the placement process, you are also able to develop your resume writing, interview and presentation skills.
INTERNATIONAL DEVELOPMENT OFFICER
For graduates with a desire to work in the social advancement field, one career path is to work with an International Non-Governmental Organization (INGO), like the World Health Organization (WHO).

With a goal to build a better, healthier future for people all over the world, WHO staff work side by side with governments and other partners to ensure the highest attainable level of health for all people.

MEDICINAL CHEMIST
Medicinal chemistry is an interdisciplinary science, drawing graduates from a range of different fields. A career in this area usually involves working on the development and testing of potentially therapeutic compounds. This might be within a company that is developing new products, for a research facility exploring new compounds, or at a regulatory agency testing pharmaceuticals for compliance.

PAINTS AND PROTECTIVE COATINGS SCIENTIST
Not all pharmaceutical science graduates go on to work with products for human consumption. Graduates can find a role working on the development of many of the products we come into daily contact with, such as paints, pigments and protective coatings.

These compounds are present in our living and working spaces, our clothing, our food packaging and many, many other products and environments. We’re exposed to them on a regular basis, so manufacturers must study them and be sure that they are safe.

PATENT ATTORNEY
To be successfully taken to market, new discoveries need to be patented and a company’s intellectual property protected.

That’s where a patent attorney comes in.

A patent attorney will typically work for a specialist consultancy, advising a range of clients. A law degree is not required, but patent attorneys need a deep understanding of relevant legislation, potentially across a number of different countries and regions.

PHARMACEUTICAL SALESPERSON
The best people for selling the benefits of a product are often those with the deepest understanding of how it works. For complex products, the best people for selling the benefits of a product are often those with the deepest understanding of how it works.

PHARMACEUTICAL SALESPERSON
The beauty of the pharmaceutical sciences
At the end of 2020 George graduated from the Bachelor of Pharmaceutical Science, an area she chose to pursue after watching the movie Contagion.

In the end, George chose not to tackle the spread of a deadly virus and is now immersed in the wonderful world of cosmetics, whilst lapping up the warm weather on the Sunshine Coast where the company she works for is based. Skincare and cosmetics are a booming business, and for pharmaceutical science graduates interested in this field there are plenty of opportunities.

When I was a student I loved being in the lab because it’s so hands on and satisfying when it leads to a result. That’s why I enjoy cosmetics – it’s all about working towards a final product and getting that product out into the world within a set timeframe.”

GEORGE PERCIVAL
Production and New Product Development Scientist, Milkman Grooming Co

PRODUCT DEVELOPER/FORMULATION SCIENTIST
Product development scientists work in a variety of industries, including food, biotechnology, pharmaceutical science, and medical device manufacturing. They are typically based in the lab, developing new foods, drugs, and medical technologies or researching and developing ways to enhance existing products.

QUALITY ASSURANCE (QA) AND QUALITY CONTROL (QC) CHEMIST
These two areas in manufacturing are closely related, but they have important differences. Where QA is about ensuring that development and maintenance processes are adequate in order for a system to meet its objectives, QC is a set of activities designed to evaluate the developed products.

QA is a systems-based career, often focused on designing, implementing and managing new systems for the manufacturing process to ensure their quality.

A QC chemist is responsible for testing the products themselves. They prepare and test samples from all phases of a manufacturing, or other handling process, with the goal of determining if the substance meets particular standards or requirements.

REGULATORY AFFAIRS ASSOCIATE
Regulatory affairs involves ensuring a company and its products meet government regulations. For companies producing new products, it’s a crucial discipline. A skilled regulatory affairs associate can be the difference an effective product reaching the market or not.

Regulatory professionals are expected to know the ins and outs of the medical regulation, and to understand how changing regulations will impact their industry.

SKINCARE AND COSMETICS DEVELOPER
Youthful, clear skin is big business, with skin care and cosmetic companies around the world spending millions on researching and developing new products. There are plenty of opportunities in this fast-moving industry, with competing companies striving for the next breakthrough that will give them the edge.

It’s not just big name international cosmetic brands that offer employment though. Many smaller companies exist in the field and it’s ripe for entrepreneurs.

Entry requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>Years of study</th>
<th>ATAR</th>
<th>LT</th>
<th>Monash Guarantee</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Pharmacy Honours/Master of Pharmacy</td>
<td>5</td>
<td>88.10</td>
<td>32.75</td>
<td>84</td>
<td>VCE English Units 3 and 4: a study score of at least 25 in one of Mathematical Methods (or Specialist Mathematics), or Mathematical Methods. Units 3 and 4: a study score of at least 25 in one of Mathematical Methods (or Specialist Mathematics), or Mathematical Methods.</td>
</tr>
<tr>
<td>Bachelor of Pharmacy Honours/Master of Pharmacy (Scholars Program)</td>
<td>5</td>
<td>98.00</td>
<td>40.75</td>
<td>N/A</td>
<td>VCE English: Australian 4 in English SL or 3 in English HL or 3 in English B SL or 4 in English B HL. Mathematics: At least 4 in Mathematics SL or 3 in Mathematics HL, or 3 in Further Mathematics HL. Science: At least 4 in Chemistry SL or 3 in Chemistry HL.</td>
</tr>
<tr>
<td>Bachelor of Pharmacy Honours</td>
<td>4</td>
<td>88.05</td>
<td>32.75</td>
<td>84</td>
<td>VCE English Units 3 and 4: a study score of at least 30 in English (EAL) or 25 in English other than EAL. Mathematics: Units 3 and 4: a study score of at least 25 in one of Mathematical Methods (or Specialist Mathematics). Science: Units 3 and 4: a study score of at least 25 in Chemistry.</td>
</tr>
<tr>
<td>Bachelor of Pharmaceutical Science</td>
<td>3</td>
<td>83.20</td>
<td>30.25</td>
<td>75</td>
<td>VCE English Units 3 and 4: a study score of at least 30 in English (EAL) or 25 in English other than EAL. Mathematics: Units 3 and 4: a study score of at least 25 in one of Mathematical Methods (or Specialist Mathematics). Science: Units 3 and 4: a study score of at least 25 in Chemistry.</td>
</tr>
<tr>
<td>Bachelor of Pharmaceutical Science Advanced Honours</td>
<td>4</td>
<td>88.10</td>
<td>32.75</td>
<td>84</td>
<td>VCE English: Australian 4 in English SL or 3 in English HL, or 3 in English B SL, or 4 in English B HL. Mathematics: At least 4 in Mathematics SL, or 3 in Mathematics HL, or 3 in Further Mathematics HL. Science: At least 4 in Chemistry SL or 3 in Chemistry HL.</td>
</tr>
<tr>
<td>Bachelor of Pharmaceutical Science Advanced Honours (Scholars Program)</td>
<td>4</td>
<td>98.05</td>
<td>40.75</td>
<td>N/A</td>
<td>VCE English: Australian 4 in English SL or 3 in English HL, or 3 in English B SL, or 4 in English B HL. Mathematics: At least 4 in Mathematics SL, or 3 in Mathematics HL, or 3 in Further Mathematics HL. Science: At least 4 in Chemistry SL or 3 in Chemistry HL.</td>
</tr>
<tr>
<td>Bachelor of Pharmaceutical Science/Bachelor of Engineering Honours</td>
<td>5</td>
<td>85.90</td>
<td>31.50</td>
<td>86</td>
<td>VCE English Units 3 and 4: a study score of at least 30 in English (EAL) or 25 in English other than EAL. Mathematics: Units 3 and 4: a study score of at least 25 in one of Mathematical Methods (or Specialist Mathematics). Science: At least 4 in Chemistry SL or 3 in Chemistry HL.</td>
</tr>
</tbody>
</table>

* The scores quoted are to be used as a guide only, and are for the latest selection trial to which an offer was made in 2022 or an estimate (E). * The dual degree is only available with the Chemical Engineering specialisation.

Guarantee

Monash
SCHOLARSHIPS
We want as many bright minds as possible to benefit from a Monash education. That’s why we offer one of the most generous scholarship programs in the country. There are too many scholarships available to list here.

To find out how you can achieve your full potential and make your mark on the world:
monash.edu/scholarships
and hit "Pharmacy and Pharmaceutical Science" under "Browse by Faculty".

GET TO KNOW US
Interested in finding out more? The faculty offers a number of opportunities for prospective students to engage with us.
Register for a one-on-one chat or campus tour, watch a course presentation or attend an upcoming event.
For more information:
monash.edu/pharm/future/get-to-know-us

HOW TO APPLY
If you are an Australian or New Zealand citizen, an Australian permanent resident, or an international student studying an Australian Year 12 or IB in Australia or New Zealand, apply through the Victorian Tertiary Admissions Centre (VTAC) at www.vtac.edu.au. Applications open in August.

THE MONASH GUARANTEE
The Monash Guarantee recognises that your potential to succeed at university is about more than just your ATAR. It ensures fair entry for students to Monash, so that even if your achieved ATAR is below the lowest selection rank to which an offer was made in 2023, you could still be offered a place.

You may be eligible if you:
• have experienced financial disadvantage;
• live in a low socio-economic area;
• identify as an Indigenous Australian; or
• attend a school under-represented at Monash.

For more information on the Monash Guarantee:
monash.edu/study/how-to-apply/entry-schemes/the-monash-guarantee
Monash Guarantee scores can be found on page 19.

PATHWAYS
If you didn’t meet our course requirements at the end of Year 12, we offer a number of pathway options. You may be able to transfer into either Pharmacy or Pharmaceutical Science after completing first year in another degree and meeting a required minimum average. Course prerequisites can be met through the study of tertiary units, or at high school level.

Note that transfers into the BPharm (Hons)/MPharm will receive no credit, even if you have studied pharmacy at another university.

For more information about transferring from another degree:
monash.edu/pharm/future/courses/pharmacy/course-variations-and-pathways/pathways-transfers

If your aim is to transfer into pharmacy, Graduate Entry Pharmacy is another pathway to consider. Further information can be found on pages 8-9. And if pharmaceutical sciences is your dream discipline, you may want to consider our new Master of Pharmaceutical Science. A link to more information is on page 19.

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#2 IN THE WORLD
FOR PHARMACY AND PHARMACOLOGY*

*QS World University Rankings by Subject 2023

DISCOVER MORE TO CHANGE
MORE AT OUR 2023 EVENTS

Discover Monash
Do you want to learn more about Monash, get a feel for which course is right for you, or perhaps experience what life and study would be like on one of our four campuses? We’ve got an event to suit you.

Discipline and Course events
Join us to find out more about our courses, internships, career outcomes and so much more! Hear from current and past students as well as academics.

Campus experience events
Join us at Open Day to see and experience student life at Monash. You can also tour one of our Victorian campuses throughout the year. Can’t make it to a tour? That’s ok, we have a virtual option for you.

Find out more
monash.edu/discover

MONASH UNIVERSITY
monash.edu
FIND A COURSE
monash.edu/study
FUTURE STUDENT ENQUIRIES
Australian citizens, permanent residents and New Zealand citizens
monash.edu/study/contact

International students
T Australia freecall: 1800 MONASH (666 274)
T +61 3 9903 4788 (outside Australia)
E study@monash.edu

The information in this brochure was correct at the time of publication (April 2023). Monash University reserves the right to alter this information should the need arise. You should always check with the relevant faculty office when considering a course. CRICOS provider: Monash University 00026C; Monash College 01857J.

FOR PHARMACY AND PHARMACOLOGY*

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