Discover your future in pharmacy

Study guide
Forest Stewardship Council (FSC®) is a globally recognised certification overseeing all fibre sourcing standards. This provides guarantees for the consumer that products are made of woodchips from well-managed forests, other controlled sources and reclaimed material with strict environmental, economical and social standards.
Discover your future
in pharmacy

Discover
------------------------
Dean’s welcome..................... 3
Why study pharmacy with us?....... 4

Study
------------------------
Bachelor of Pharmacy............... 6
Master of Pharmacy.................. 8
Preparing you for the workforce..... 10
Intern Training Program/Graduate
Certificate in Pharmacy Practice..... 11

Join us
------------------------
How to apply.......................... 12
Discover

Dean’s welcome

The Faculty of Pharmacy is one of the leading centres for pharmacy education and enjoys an outstanding national and international reputation for research and innovation.

Our undergraduate and postgraduate degrees provide the opportunity to become a registered pharmacist.

As a student here you will learn from world-renowned academics who are leaders in their field and well-regarded for the supportive and approachable learning environment they create.

Clinical practice is of critical importance to developing a thorough understanding of pharmacy. Through our placements program, you will apply the latest knowledge and industry developments to diverse challenges in health care, as well as working with other students to understand how best to treat patients.

Staff and students at the Faculty of Pharmacy continually strive for excellence in learning, teaching and research. Our innovative teaching style, clinical and experiential placements will provide you with a well-rounded pharmacy degree that is professionally relevant and in high demand with employers.

During your course, you will get practical experience in a variety of community and clinical settings, including hospitals and industry, rural and overseas opportunities, enabling you to put your knowledge into action and develop important interpersonal skills that are critical to the work of practising pharmacists.

Research at the faculty covers pharmaceutical and clinical sciences. Our research is structured around five priority areas: cancer, cardiovascular disease and diabetes, health services and patient safety, mental health, and respiratory disease.

I hope that you find your experience with us an enriching one that is intellectually, socially and culturally rewarding. The University of Sydney and Faculty of Pharmacy have so much to offer – I encourage you to embrace all these opportunities to the full.

Mission statement

Our mission is to make a pivotal contribution to the health and wellbeing of all Australians by:

- implementing an integrated market-led and market-differentiated approach to pharmacy education and practice
- conducting high quality, cross-disciplinary research in our areas of research strength, which are aligned to national health priorities.

Professor Iqbal Ramzan
Dean, Faculty of Pharmacy
Discover
Why study pharmacy with us?

Pharmacists are trusted and valued members of the community and have the opportunity to transform the lives and lifestyles of individuals, their families and carers, and the community.

Whether you decide to register as a pharmacist and work in a community or hospital pharmacy, enter the pharmaceutical industry, work for government agencies or contribute to research and academia, your knowledge and expertise will improve health and wellbeing.

In Australia, the majority of pharmacists work as community pharmacists, supplying and distributing medicinal products, giving information, advice and counselling. Community pharmacists review medication and advise medical practitioners about optimal drug therapy. This role is constantly evolving to meet changing disease patterns and consumer expectations.

Hospital pharmacists work in multi-disciplinary teams with medical staff and allied health professionals to provide optimal patient care. They distribute and review medications, educate patients and health professionals to achieve quality use of medicines, and perform clinical and applied research, including clinical drug trials.

Pharmacists are also employed by various government agencies, in positions concerned with the control, manufacture, supply and distribution of medicines.

Pharmacy graduates are highly sought after by the pharmaceutical industry in product development, manufacturing, medical, sales and marketing roles. Our undergraduate and graduate-entry degrees provide experience and skills in research, allowing graduates to seek full-time research work or to pursue a research-based higher degree.

Our world-renowned academics are pursuing projects in areas such as cancer, cardiovascular disease and diabetes, health services and patient safety, mental health and respiratory disease. You can gain your own research experience through the advanced study options on offer.

Becoming a registered pharmacist

To register with the Pharmacy Board of Australia, graduates of the Bachelor of Pharmacy and Master of Pharmacy need to complete 1824 hours of supervised practical training after graduation, in addition to completing an Intern Training Program (ITP) during the pre-registration period, and a registration exam with the Pharmacy Board of Australia.

For more information see
- sydney.edu.au/pharmacy/itp/
or
- www.pharmacyboard.gov.au
Why did you decide to study pharmacy?
My interest in chemistry, biology and the sciences in general, coupled with my enjoyment of interacting with people and healthcare, made pharmacy the perfect choice for me.

A career in pharmacy is really diverse and flexible – there are just so many avenues you can explore, from community and hospital pharmacy roles to the huge range of jobs in the pharmaceutical industry.

Tell us about the course and what you enjoyed about it.
When I got to university and learned about the interaction between the human body, chemistry and microbiology, it blew my mind. It is amazing that such small changes at a molecular level can have such a huge impact on the human body.

I was impressed by how the course focused on disease states and different parts of the body. It gave me a well-rounded understanding of the chemistry behind pharmacy, before delving into the social, business and hospital aspects.

My Bachelor of Pharmacy helped me get my job because the University of Sydney is known for producing good graduates.

What are you doing now?
I am working as a community pharmacist in Coffs Harbour, on the north coast of NSW. I love this work because we give the patients the care they need and deserve.

Community pharmacists are such a vital part of the healthcare system, especially in rural communities, where we are often the first point of healthcare contact for a large number of people. I find the job incredibly rewarding.

– sydney.edu.au/discover-pharmacy
Study
Bachelor of Pharmacy

The Bachelor of Pharmacy is for students with no prior university education. During this course, you will gain insights into how drugs are developed and how medications affect the human body, and obtain entry into a trusted and valued profession that focuses on improving people’s quality of life.

The Bachelor of Pharmacy is a four-year, full-time professional degree combining advanced scientific investigation with training in clinical practice and optimum patient care. It covers the study of the chemical, physical, pharmaceutical, and pharmacological properties of medicinal substances and the application of these in the pharmacy profession.

In your first year, you will study biology, chemistry, and basic pharmaceutical sciences. The remaining three years are devoted to higher levels of biomedical and pharmaceutical sciences, together with specialised clinical pharmacy studies. During third and fourth year, you will spend considerable time in clinical placements, in both community and hospital pharmacies.

An honours program is offered to high-performing students in the final year of study and focuses on research into one of the faculty’s key research areas.

The Bachelor of Pharmacy is accredited by the Australian Pharmacy Council (APC) and allows graduates to progress towards registration as a pharmacist in Australia. On completion of this degree, and following the compulsory pre-registration training period (including an Intern Training Program), you will be eligible for registration with the Pharmacy Board of Australia. Once registered, graduates will be able to practise as a professional pharmacist.

“I chose pharmacy because I want to equip myself with the knowledge and skills required to make a meaningful contribution to the Australian healthcare system. The course combines my interest in chemistry and mathematics with my passion to address social and health-related challenges.”

“My scholarship motivates me to achieve my personal best, work hard and persevere through the challenges that the University offers. I see myself working as a community pharmacist so that I can practically apply the knowledge and skills from my degree on a daily basis to help a range of patients.”

Melissa Barakat
Bachelor of Pharmacy and University of Sydney Entry Scholarship recipient
### Course outline

#### Year 1

**Semester 1**
- Human Biology
- Chemistry A (Pharmacy)
- Foundations of Pharmacy
- Basic Pharmaceutical Sciences

**Semester 2**
- Chemistry B (Pharmacy)
- Molecular Biology and Genetics (Intro)
- Social Pharmacy
- Physical Pharmaceutics and Formulation A

#### Year 2

**Semester 1**
- Drug Discovery and Design A
- Microbiology and Infection
- Therapeutic Principles
- Physiology for Pharmacy

**Semester 2**
- Pharmacology for Pharmacy
- Drug Discovery and Design B
- Pharmacy Practice
- Physical Pharmaceutics and Formulation B

#### Year 3

**Semester 1**
- Cardiovascular and Renal
- Respiratory
- Endocrine, Diabetes and Reproductive
- Gastrointestinal
- Pharmaceutical Skills and Dispensing A

**Semester 2**
- Mental Health
- Neurology
- Musculoskeletal, Dermatological and Senses
- Oncology and Immunology
- Pharmaceutical Skills and Dispensing B

#### Year 4

**Semester 1**
- Pharmacotherapeutics
- Integrated Dispensing Practice
- Pharmacy Services and Public Health
- Pharmacy Management

**Semester 2**
- Novel Therapeutics
- Professional Practice
- Clinical Placement
- Honours
- Major

### Other key course details

- **ATAR:** 90
- **UAC code:** 512400
- **Duration:** 4 years full time
- **IELTS requirement:** 6.5 (6.0)
- **Assumed knowledge:** Mathematics, Chemistry
- **Recommended studies:** Biology or Physics
- **Clinical placements:** community, hospital, and industry
- **Intake:** March

### Full program description

For a full program description including majors, honours and individual units of study, go to:

- sydney.edu.au/handbooks/pharmacy/

### More information

To find out more about the Bachelor of Pharmacy visit:

- sydney.edu.au/courses/Bachelor-of-Pharmacy
Study
Master of Pharmacy

If you already have a university degree, the Master of Pharmacy offers an entry pathway to the pharmacy profession.

The Master of Pharmacy is an accredited and innovative two year graduate-entry coursework program designed to prepare you for all aspects of the pharmacy profession, including leadership in innovative, evidence-based practice.

You will benefit from outstanding and effective teaching and research, exposure to modern clinical settings and in-depth interaction with world-leading academics, placing you in a cohort of the most desirable pharmacy graduates in Australia.

The course has a strong practical focus, underpinned by evidence-based practice and research. It is designed to provide you with advanced clinical skills and prepare you for all aspects of the pharmacy profession and leadership in healthcare.

The program offers a mix of lectures, tutorials, labs, small group work, problem-based learning and clinical placements, including community, hospital and industry, to develop valuable knowledge, practical skills and experience.

The Master of Pharmacy is accredited by the Australian Pharmacy Council (APC) and allows graduates to progress towards registration as a pharmacist in Australia. On completion of this degree, and following a compulsory pre-registration training period (including an Intern Training Program), you will be eligible for registration with the Pharmacy Board of Australia and able to practise as a pharmacist.

Course outline

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pharmaceutical Chemistry 1A</td>
<td>Pharmaceutical Chemistry 1B</td>
</tr>
<tr>
<td></td>
<td>Current Topics in Pharmacology</td>
<td>Pharmaceutics 1B</td>
</tr>
<tr>
<td></td>
<td>Pharmaceutical Science</td>
<td>Pharmacy Practice A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clinical Residency 1 (January – March)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pharmaceutics 2A</td>
<td>Dispensing Practice</td>
</tr>
<tr>
<td></td>
<td>Pharmacy Practice B</td>
<td>Integrated Pharmaceutics</td>
</tr>
<tr>
<td></td>
<td>Pharmaceutical Chemistry 2</td>
<td>Pharmacy Practice C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clinical Residency 2</td>
</tr>
</tbody>
</table>

Other key course details
Entry: Bachelor’s degree, GPA (5.5/7) or GAMSAT/MCAT
Duration: 2 years full time
Prerequisites: Meet a minimum of 42 out of 54 credit points, or equivalent, in seven prerequisite subjects: Calculus, Statistics, Human Biology, Chemistry, Biochemistry, Pharmacology and Physiology.
IELTS requirement: 7.0 (6.5)
Clinical placements: community, hospital and industry
Intake: March

Full program description
For a full program description, including individual units of study, visit:
- sydney.edu.au/handbooks/pharmacy/

More information
To find out more, visit:
- sydney.edu.au/courses/Master-of-Pharmacy
“The Master of Pharmacy appealed to me because I believe pharmacists play a major role in the community as frontline health professionals. I have an interest in helping people and this degree allows me to use my theoretical and clinical skills to assist a diverse range of patients in a community pharmacy setting.”

Hana Yassin
Master of Pharmacy

“I always had an interest in pharmacy. After completing an undergraduate science degree, I decided the Master of Pharmacy was for me. I enjoy learning from lecturers at the University. They all come from different academic backgrounds and are clearly experts in their field.”

Wade McKeown
Master of Pharmacy
Study
Preparing you for the workforce

From clinical placements to our Intern Training Program, we offer plenty of first-hand experience to help prepare you for the pharmacy workforce.

Clinical placements
Clinical placements are important for you to put theory into practice in community, hospital, rural or industrial settings to prepare for the real world of pharmacy and healthcare. All pharmacy students undertake clinical placements during their degree.

To successfully complete your degree, you will need to satisfactorily perform a number of clinical placements.

Rural placements
You are encouraged to do rural placements as part of your clinical training, to give you valuable experience in settings where healthcare services may be limited or delivered differently.

The Rural Pharmacy Student Placement Allowance helps students fund their travel and accommodation costs. This project is funded by the Australian Government Department of Health and Ageing as part of the Fifth Community Pharmacy Agreement.

“I have undertaken clinical placements in both community pharmacies and the pharmaceutical industry. Having exposure to different clinical experiences relating to pharmacy was one of the most valuable parts of my degree.

“I enjoyed experiencing first hand the work that pharmacists do in a real-life setting. Also, being able to apply the knowledge learnt at university in a practical setting was invaluable.

“It was challenging to adapt from being a ‘student’ to being a ‘professional’ in a work environment. However, it allowed me to develop confidence in my knowledge and skills and take initiative with tasks I had been given.”

David Truong
Bachelor of Pharmacy
Graduate Certificate in Pharmacy Practice (including the Intern Training Program)

After graduating from either the Bachelor of Pharmacy or the Master of Pharmacy, you need to complete an Intern Training Program (ITP) with the Faculty of Pharmacy or equivalent. For more information, visit:

- sydney.edu.au/pharmacy

The Intern Training Program is the next step to becoming a fully qualified pharmacist in Australia. The program is designed to give graduates the edge during the transition from university to the workforce. It provides extensive support and resources for you to complete all requirements for general registration as a pharmacist practitioner in Australia, and get your career off to a great start.

The faculty’s ITP is the only program in New South Wales to benefit from the National Alliance of Pharmacy Education (NAPE) course model, which was developed in conjunction with NAPE’s partnering universities: Monash University, the University of South Australia, the University of Queensland and the University of Sydney. For more information visit:

- www.nape.edu.au

Program overview

Interns undertake supervised practice in a workplace setting of their choice to gain essential skills and clinical experience. The NAPE ITP complements this occupational training with a flexible teaching model. It involves face-to-face workshops, online collaborative exercises and workplace projects that enhance an intern’s learning portfolio.

A total of 1824 hours of supervised workplace training is required to attain professional registration. The ITP is structured to ensure interns make the most of that time and complete the program fully prepared to register as a pharmacist in Australia.

The ITP is delivered as the first two compulsory units of study within the Graduate Certificate in Pharmacy Practice, a two-year part-time postgraduate course.

By completing the ITP, you will have the opportunity to fast-track completion of the Graduate Certificate in Pharmacy Practice. This is the only ITP in New South Wales that offers the opportunity to obtain a formal postgraduate qualification.

Entry requirements

Applicants for the ITP are required to have:

- a Bachelor of Pharmacy or Master of Pharmacy degree from a tertiary education provider recognised by the Pharmacy Board of Australia
- arranged an Australian Health Practitioner Regulation Agency-approved workplace and pharmacist to undertake supervised training, to be completed during the course
- English language proficiency (if relevant).
Join us
How to apply

Bachelor of Pharmacy

Entry requirements and assumed knowledge
ATAR: 90
UAC code: 512400
Duration: 4 years full time
IELTS requirement: 6.5 (6.0)
Assumed knowledge: Mathematics, Chemistry
Recommended studies: Biology or Physics

Domestic students
Apply via the Universities Admissions Centre
- www.uac.edu.au

For more information, visit:
- sydney.edu.au/study

International students
- sydney.edu.au/study

Alternative pathways
We encourage you to consider all options for entry to the University of Sydney, beyond your ATAR. The University has a number of special entry schemes available to domestic students such as Flexible Entry, E12 and Rural Entry.

For more information on alternative pathways, visit:
- sydney.edu.au/study/admissions/pathways-to-study/alternative-entry.html

Scholarships
The University of Sydney offers a range of undergraduate scholarships to help you achieve your goals. These are generally awarded on the basis of merit or equity.

For more information visit:
- sydney.edu.au/scholarships/prospective

Master of Pharmacy

Entry requirements
Applicants are required to have:
- a prior bachelor’s degree
- the minimum Grade Point Average (GPA) requirements or have sat the Graduate Australian Medical Admissions Test (GAMSAT) or have sat the Medical College Admission Test (MCAT)
- a minimum of 42 out of 54 credit points, or equivalent, in seven prerequisite subjects at university level
- IELTS requirement: 7.0 (6.5)

Prerequisite subjects
You are required to meet a minimum of 42 out of 54 credit points, or equivalent, in the following seven prerequisite subjects at university level:
Calculus, Statistics, Human Biology, Chemistry, Biochemistry, Pharmacology and Physiology.

All prerequisite subjects need to have been completed in the last five years. Students can enrol with 12 credit points of prerequisite subjects outstanding as long as these subjects are completed by the end of the first year of the Master of Pharmacy program.

Submit your application directly* to the University of Sydney:
- sydney.edu.au/courses/Master-of-Pharmacy

*International students can apply through an authorised education agent.
Application dates

International applicants
International students can submit an application all year round for assessment.

Domestic applicants
Applications open on 1 June.

Offers will be made in three intake rounds, with a possible late round in January if places are still available.

<table>
<thead>
<tr>
<th>Applications submitted and assessed</th>
<th>Offers made</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round 1 1 June – 31 July</td>
<td>August (first two weeks)</td>
</tr>
<tr>
<td>Round 2 1 August – 30 September</td>
<td>October (first two weeks)</td>
</tr>
<tr>
<td>Round 3 1 October – 30 November</td>
<td>December (first two weeks)</td>
</tr>
</tbody>
</table>

The following means of entry are considered:

Domestic applicants
- The Faculty of Pharmacy at the University of Sydney accepts transfers from current Master of Pharmacy programs across Australia. Exemptions are assessed on a case-by-case basis.

International applicants
- International pharmacy graduates are accepted, provided pharmacy registration has been within the last five years. It is not a requirement to have a GPA, MCAT or GAMSAT for this application.

Fees and financial support

Domestic applicants
The Bachelor of Pharmacy is a full-time undergraduate degree that has Commonwealth-supported places. Financial assistance for Australian citizens and some permanent residency visa holders can be obtained through HECS-HELP – an Australian Government loans facility for undergraduate courses.

The Master of Pharmacy is a full-time postgraduate degree with both Commonwealth-supported places and full fee-paying places. Financial assistance for Australian citizens and some permanent residency visa holders can be obtained through FEE-HELP.

FEE-HELP is an Australian Government loans facility for eligible coursework students who are enrolled in fee-paying, postgraduate, non-research courses.

Students in both the Bachelor of Pharmacy and the Master of Pharmacy may be eligible for Student Income Support Payments. These payments include schemes such as Youth Allowance, Austudy and ABSTUDY.

International applicants
The Bachelor of Pharmacy and Master of Pharmacy are both available to international applicants (full fee-paying places).

For more information visit:
- sydney.edu.au/courses/Bachelor-of-Pharmacy
- sydney.edu.au/courses/Master-of-Pharmacy

Recognition of prior learning

Applications for credit obtained during previous tertiary study (recognition of prior learning) are individually assessed.
If you read only one thing, read this.

Your journey to university is as unique as you are.

At the University of Sydney, you have the opportunity to steer your own path. You can gain professional qualifications, customise your course and get involved in extracurricular activities to personalise your university experience.

This guide provides the key information you need to apply for a pharmacy degree, but the next step is up to you.

Contact us
sydney.edu.au/ask-domestic
sydney.edu.au/ask-international
sydney.edu.au/pharmacy
1800 SYD UNI (1800 793 864)
+61 2 8627 1444 (outside Australia)